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METEOROLOGICAL OFFICE

THE OBSERVATORIES' YEAR BOOK 1931

Comprising the meteorological and geophysical results obtained from autographic records and eye observations at the observatories at Lerwick, Aberdeen, Eskdalemuir, Cahirciveen (Valentia Observatory), and Richmond (Kew Observatory), and the results of soundings of the upper atmosphere by means of registering balloons.

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PREFACE.

From 1908 to 1921, the serial statistical publications of the Meteorological Office were grouped together as though they were parts of one comprehensive book. This book, which was entitled "The British Meteorological and Magnetic Year Book," consisted of :— .

Part I	The Weekly Weather Report.
Part II	The Monthly Weather Report.
Part III, Section I	Daily Readings at Meteorological stations of the First and Second Orders.
Section II	Geophysical Journal, Daily Values of Meteorological and Geophysical Elements.
Part IV, Section I	Hourly Values from Autographic Records, Meteorological Section.
Section II	Hourly Values from Autographic Records, Geophysical Section.
Part V	Réseau Mondial.

The data for the year 1922 and subsequent years are found in the following publications :—

New Publication from 1922.	Corresponding parts of the British Meteorological and Magnetic Year Book until the end of 1921.
The Weekly Weather Report	Part I.
The Monthly Weather Report	Part II.
The Observatories' Year Book	Part III, Section II. Part IV, Section I.* Part IV, Section II.
The Réseau Mondial	Part V.

It will be noticed that Part III, Section I, of the old publication is not included in the new issues. This part contained "Daily Readings at Meteorological Stations of the First and Second Orders," and it has been decided that as the Observatories' Year Book contains daily values of the meteorological elements for the principal first order stations and the Daily Weather Report contains daily values for these and about 40 other stations, it is not necessary to revive the issue of this section, which ceased with the data for 1921.

The present volume is the tenth issue of the Observatories' Year Book. It contains geophysical data for Lerwick, Eskdalemuir, Cahirciveen and Richmond, meteorological data for Aberdeen, Eskdalemuir, Cahirciveen and Richmond, and in addition an aerological section giving the results of soundings of the upper atmosphere by means of registering balloons.

The only addition to this volume is a table of daily readings of temperature in the ground as recorded at Cahirciveen.

The table of mean annual values of magnetic data for observatories of the globe has been contributed by the Astronomer Royal. It will be found at the end of the Eskdalemuir section.

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*Part IV, Section I, Hourly Values from Autographic Records, Meteorological Section, was discontinued after the data for 1913 had been published. The hourly values for the years 1914 to 1921 are, however, available in manuscript.

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LIST OF OBSERVATORIES.

	Latitude.	Longitude.	G.M.T. of Local Mean Noon.	Height above M.S.L.
	° ′	° ′	h m	metres
Lerwick, Shetland Isles	60 8 N.	1 11 W.	12 5	81·7
Aberdeen	57 10 N.	2 6 W.	12 8	11·4†
Eskdalemuir, Dumfries-shire	55 19 N.	3 12 W.	12 13	242·0
Valentia Observatory, Cahirciveen, Co. Kerry.	51 56 N.	10 15 W.	12 41	9·1
Kew Observatory, Richmond, Surrey ..	51 28 N.	0 19 W.	12 1	5·5

Note.—The height given is that of the site of the rain-gauge. The heights of other meteorological instruments are shown in the appropriate Tables.

† The site of the rain-gauge was altered on 1st June 1928.

NORMAL VALUES AND MONTHLY SUMMARIES.

Monthly and annual normals of pressure, dry bulb temperature, and rainfall for each hour of the day and for the period of 45 years, 1871–1915, are published for the observatories, Aberdeen, Cahirciveen, Richmond and Falmouth in *Hourly Values from Autographic Records*, 1917 (Part IV of the British Meteorological and Magnetic Year Book, 1917), and in previous volumes of that series. Corresponding normals of wind-speed and sunshine are published there for the same observatories and for the period of 35 years, 1881–1915, while corresponding normals of relative humidity are also published there for the period of 30 years, 1886–1915.

For Eskdalemuir the same publication gives hourly averages for the months and for the year, referred to the period 1911–1915.

Summaries giving additional mean values and frequencies of occurrence of various meteorological phenomena will be found for all the observatories in *The Monthly Weather Report* and its Annual Summary. The latter also contains special summaries of the tabulations of the anemographs.

Monthly normal values of maximum, minimum and mean temperature, rainfall and sunshine for the period 1881–1915 are published in the *Book of Normals, Section I*, for Aberdeen, Cahirciveen, Richmond and Falmouth. *Section IV* of the same publication gives information regarding the range of variation of temperature and rainfall at the same observatories, and monthly frequencies of the normal numbers of days of hail, thunder, snow, snow-lying and ground frost. *Section VI* of the *Book of Normals* gives tables and isopleth diagrams showing the normal diurnal and seasonal variation of relative humidity at all the observatories for which data of relative humidity are included in this volume.

GENERAL INTRODUCTION TO THE METEOROLOGICAL TABLES.

The elements dealt with in the following meteorological tables for the Observatories at Aberdeen, Eskdalemuir, Cahirciveen and Richmond are :—barometric pressure, air temperature, humidity, rainfall, sunshine, wind speed and direction, minimum night temperature on the grass, temperature in the ground, cloud, visibility and weather, and in some cases solar radiation and level of underground water.

The positions of the Observatories and the heights of the sites are given on p. 8.

Notes on the Instruments and Tabulation of the Records.

A detailed description of the barograph, thermograph, and Beckley rain-gauge used for obtaining the records of pressure, temperature, humidity, and rainfall is given in the *Reports* of the Meteorological Office for the years 1867 and 1869; for a description of other instruments in use reference may be made to the *Meteorological Observer's Handbook* and to the article on Meteorological Instruments in the *Dictionary of Applied Physics*, Vol. III. The following notes are supplementary and are given partly for reference and partly as containing information necessary for the interpretation of the tables.

Barometer.—The record of barometric pressure is obtained photographically from a mercurial barometer.

By means of a source of light, a condenser and an objective arranged as in the ordinary optical lantern, an image of the space above the mercury in the tube, reduced to very small width by means of a diaphragm, is projected upon a sheet of photographic ("bromide") paper carried upon a cylinder which is rotated by means of clockwork and makes one revolution about its vertical axis in rather more than 48 hours. The image is in the form of a vertical line of light, the lower edge of which is defined by the position of the mercury in the barometer tube, while the upper edge is defined by a plate actuated by a zinc rod. The purpose of the zinc rod is to provide an automatic compensation for temperature changes, the arrangement being such that any shortening of the line of light due to a rise of temperature and consequent expansion of mercury in the tube is balanced by an equal lengthening due to movement of the plate carried on the zinc rod.

The barogram is, therefore, a continuous photograph of a narrow illuminated vertical line and appears as a horizontal ribbon, the depth of which is constantly varying with the rise or fall of the mercury in the tube of the barometer.

A time-scale is recorded upon the barogram by means of a shutter actuated by the clock. This shutter cuts off the light for the space of four minutes every two hours, thus producing interruptions which appear on the record as narrow white spaces corresponding with known points of time. Until 1918 these time-breaks occurred at the even hours, 2h, 4h, 6h, etc., but it was found that when the edge of the record was not critically sharp owing to various causes, a systematic error was introduced when measuring the records, whereby the values at the even hours were slightly in excess of those at the odd hours where no time-break existed. From 1918 onwards the clock was so arranged that the time-breaks should occur half an hour before the even hours; by this means both even and odd hour-values are measured at points on the trace which are unaffected by any systematic difference.

Control readings of a standard barometer are taken three times a day by different observers. The control readings are first corrected for index error, temperature and gravity, and then compared with the corresponding readings of the barogram. The differences between the control readings and the corresponding tabulated values are then found and a correction derived therefrom is applied to all the tabulated values. This correction, known as the " residual correction," is so applied as to run smoothly throughout the whole length of each record—a period of 48 hours—and alterations in the amount of the correction occur, where necessary, in steps not exceeding 0·1 millibar.*

The scale value of the barograms is found from a comparison of a series of such standard and curve readings. The indications of a curve are converted into numerical values by measuring the ordinates with a tabulating instrument, graduated according to the ascertained scale value.

Thermometers.—The air temperature and humidity data at each Observatory are derived from records obtained photographically from two mercurial thermometers. One thermometer is used as a dry bulb and the other as a wet bulb thermometer.

Each thermometer has a large cylindrical bulb four inches long and a very long stem. The latter is bent twice at right angles to enable the bulb to be exposed outside the building in a louvred screen attached to the north wall of the Observatory.† The column of mercury in the vertical portion of the stem inside the building is broken at a convenient point by a small air space which moves up or down the stem with rise or fall of temperature. The record is obtained by passing a reflected beam of light through the air space and photographing its image upon a moving sheet of " bromide " paper in the same manner as described in the case of the barometer. A base line is traced on the paper by a pencil of light passing through a small aperture in the brass frame carrying the recording thermometer. The time-scale is automatically recorded upon the curves, a time-break occurring half an hour before each even hour.

Two large standard thermometers with very open scales graduated in degrees absolute and having bulbs similar to those of the thermograph are mounted in the screen side by side and close to the thermograph bulbs. One of the thermometers is arranged as a dry bulb, the other as a wet bulb. Control readings of these thermometers are made three times a day for comparison with the corresponding readings obtained from the thermograms.

The scale-value of the curves is found by a comparison of the readings of the standard thermometers, corrected for any errors they may have, with the corresponding measurements of the curves. The curves are measured by means of a plate of glass ruled with lines corresponding with the ascertained scale-value of the record, both for temperature and for time. The scale is graduated so as to read degrees vertically and hours horizontally.

Two alternative methods of reading the curves have been adopted.

(*a*) At Richmond the scale is set by the base-line and after hourly readings have been obtained for the whole record comparisons are made with the control readings. The residual correction so determined (normally the same for the whole record of 48 hours) is applied to the tabulations.

(*b*) At Aberdeen, Eskdalemuir and Cahirciveen, the practice is to adjust the glass scale so that the readings at the control hours on the trace are made to show general agreement with the corresponding eye-readings of the standard thermometers. The temperature equivalent of any part of the curve can then be read off. The base-line photographed on the record serves as a useful check.

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* At Cahirciveen and Richmond the rule is to apply the same correction for the whole chart.

† At Eskdalemuir the screen stands in the open.

Rainfall.—This element is recorded by a Beckley self-registering rain-gauge, in which the rain as it falls is collected in a receiver supported on a float in a vessel of mercury. As the rain passes into the receiver, the float gradually sinks, carrying with it a pen which records its position upon a paper stretched upon a clock-driven cylinder. The displacement of the mercury by the float is arranged so as to give a uniform scale throughout. When five millimetres (two-tenths of an inch) of rain have entered the receiver a siphon comes into action, and, by discharging its contents, causes the float to rise till the pen is brought back to the zero line, from which the record begins again.

The collecting funnel of the Beckley rain-gauge has an area of approximately 100 square inches. Each gauge stands on level ground and its distance from every other object is greater than twice the height of the object. The height of the rim of the Beckley rain-gauge above the surface of the surrounding ground varies from 0·4 m. to 0·6 m. at the different observatories. Details are given at the head of the tables of hourly values. A check gauge with funnel 8 inches in diameter is installed near by.

The records obtained from the Beckley self-registering rain-gauge are, if necessary, subjected to a proportional correction whereby they are brought into agreement with the amount of rainfall as recorded by the check rain-gauge which is read twice daily at 7h. and 18h.

Sunshine.—The record of sunshine is obtained from a Campbell-Stokes recorder in which instrument the sun's rays are focussed through a 4-inch spherical lens of crown glass upon a strip of blue card, which is scorched, or burned right through, according to the intensity of the sun's rays. Three different patterns of card are used at different seasons of the year. The cards are exposed in a metal bowl, and the focussed image of the sun leaves its mark behind it as it travels along the surface of the card with the apparent motion of the sun through the heavens. The intensity of the burn is not measured, but the record is regarded as that of " bright " sunshine whenever the card has been distinctly scorched. When measuring the duration of sunshine which is represented by intermittent burns, an allowance is made for the extension of the trace by the charring of the card.

Wind - Speed and Direction.—The hourly values of wind-speed and direction for Eskdalemuir, Richmond and Cahirciveen which appear in this volume are derived from the records of Dines tube anemographs, a description of which will be found in the *Meteorological Observer's Handbook.* In the case of Aberdeen, where building operations have seriously impaired the exposure of the tube anemograph, data from the Robinson cup anemograph, adjusted as explained in the sectional introduction, have been printed for 1931. At Eskdalemuir records of tube anemographs have always been used, but at the older observatories the data printed in volumes previous to that of 1926 were obtained from Robinson cup anemographs. At Richmond a new Dines tube anemograph, erected on the dome in the position formerly occupied by the Robinson cup anemograph, but with its vane 3 metres higher than the original height of the cups, has been brought into use from January 1st, 1931. Particulars of the exposure of the instruments at each Observatory will be found in the sectional introductions.

The relation between the values of wind speed recorded by the cup and tube anemographs at the several observatories was briefly discussed in the General Introduction to the volume for 1926. The following table gives, for the various wind directions, the mean values of wind speed recorded by the tube anemographs, expressed as percentages of the corresponding values recorded by the cup anemographs :—

Average values of the quantity $100 \times \dfrac{\textit{Speed by tube anemograph}}{\textit{Speed by cup anemograph}}$ *at the three observatories, arranged according to the direction of the wind.*

North = 360°, East = 90°, South = 180°, West = 270°.

Wind Direction in degrees from North.	Aberdeen.	Cahirciveen.	Richmond. 1926–30	Richmond. 1931	Wind Direction in degrees from North.	Aberdeen.	Cahirciveen.	Richmond. 1926–30	Richmond. 1931
10	131	103	99	114	190	138	137	96	107
20	132	103	100	113	200	132	134	99	107
30	130	104	103	114	210	124	128	99	104
40	117	103	103	110	220	115	115	100	104
50	115	104	104	109	230	108	102	100	104
60	115	105	99	103	240	110	90	100	103
70	119	105	99	102	250	112	88	101	106
80	113	104	97	99	260	114	85	101	107
90	110	102	101	103	270	128	82	101	108
100	126	98	104	106	280	124	81	103	111
110	121	97	102	103	290	110	83	101	111
120	118	98	100	102	300	99	88	96	108
130	118	100	104	105	310	100	92	93	103
140	125	103	102	105	320	108	95	96	107
150	128	107	98	102	330	111	97	99	115
160	137	114	92	99	340	120	98	98	116
170	133	123	92	103	350	138	99	103	119
180	135	134	95	106	360	135	102	104	122

Details in regard to the comparison of the new and old tube anemographs at Richmond will be found in the sectional introduction.

Minimum Night Temperature on the Grass.—This is the temperature determined by a minimum thermometer exposed freely over the surface of the grass. The stem of the thermometer is enclosed in an outer glass jacket, but the spirit bulb is freely exposed to the air. The thermometer is supported on two small Y-shaped pieces of wood so that it lies horizontally, with its bulb about one or two inches above the ground, which is covered with short grass. When snow has fallen the thermometer is supported so as to lie just above the surface of the fallen snow, but not touching it.

The thermometer is laid out at 18h. each day, having been kept in an upright position, bulb downwards, inside the Stevenson Screen during the daytime, so that any spirit that may have condensed in the upper part of the stem may be able to run down and join the main spirit column.

Notes on the Tables.

General.—Interpolated values are printed within brackets, ( ). Maximum and minimum values are printed in heavy type.

Standard of Time.—The observations are referred to *Greenwich Mean Time* except as regards sunshine, for which element *local apparent time* is used.

Units.—In accordance with the practice introduced in 1911, as a consequence of certain resolutions of the Gassiot Committee of the Royal Society, the values in the tables are expressed throughout in units based upon the C.G.S. System: tables for conversion to other units are given in the *British Meteorological and Magnetic Year Book* (*Part IV*) for 1913 and are also to be found in the *Computer's Handbook.*

Daily Mean Values.—The daily means of pressure, temperature, relative humidity and wind speed are obtained by adding half the sum of the values for the initial and final midnights to the sum of the 23 intermediate hourly values and dividing by 24.

In the preparation of the tables of diurnal inequalities for individual months and for the year, it is assumed that the difference of value between the means for the initial and final midnights, which may be termed, so far as the hourly variations are concerned, the non-cyclic variation, is equally distributed over the whole 24-hour period. Thus, in a table of diurnal inequalities the entry d_n for the hour n is given by

$$d_n = x_n - \bar{x} - (n-12)\ (x_{24} - x_0)/24,$$

x_n being the value of the element at hour n and $\bar{x}$ the mean for 24 hours.

Annual Values.—The mean values or totals for the whole year (given either in separate tables or at the end of the corresponding monthly tables), are computed as the means or sums of 365, in leap year 366, daily values.* The annual values of pressure at sea level are computed from the annual means at station level and the annual means of air temperature; the annual values of vapour pressure are derived from the annual means of air temperature and relative humidity.

Atmospheric Pressure.—All pressures recorded in this volume are expressed in *millibars*, one millibar being equal to 1000 dynes per square centimetre. The following are the values of physical constants used in evaluating the data :—

Density of Mercury=13·5955 grams per cc. at 0°C.
Intensity of Gravity at Sea Level (Lat. 45°) =980·617 centimetres per second per second.
1 inch=25·4000 millimetres.

Hence a pressure of 1000 millibars corresponds with a reading of 750·076 millimetres on a mercury barometer at temperature 0°C. in Lat. 45° and is equivalent to 29·5306 inches under standard conditions of temperature (mercury at freezing point, scale at 62° F.) in Lat. 45°.

The true pressure in millibars can only be obtained from the reading of a barometer after the latter has been suitably corrected for (*a*) index error, (*b*) temperature, and (*c*) gravity.

These corrections have been applied to the barometer readings in obtaining the pressure values published in this volume. The corrections for index error (including those for capillarity) are given in the certificates issued by the Kew Observatory or the National Physical Laboratory in respect of the standard barometers at each observatory. The corrections for temperature are equivalent to those published in the *International Meteorological Tables* (Gauthier-Villars, Paris, 1890). The correction for the variation of gravity from its standard value at sea level in latitude 45°, quoted above, is in accordance with the formula adopted in the *International Tables*, viz. :—

$$g_{z,\lambda}/g_{0,45^\circ} = (1 - 0{\cdot}00259 \cos 2\lambda)\ (1 - 5z/4E)$$

where z = height of the station above M.S.L.
E = earth's radius, both expressed in the same units,
and λ = latitude of station.

Except at Eskdalemuir, the correction for the variation of gravity with height, contained in the second factor of the above equation, is insignificant.

* At Eskdalemuir the annual values for the years 1922 to 1926 were computed as the means or sums of 12 monthly values.

Unless otherwise stated, all pressure values refer to the level of the observatory, as given in the headings of the tables. The reduction to sea level, wherever made, is effected by tables drawn up for each observatory in accordance with the following scheme :—

If p is pressure at station level, and P is pressure at sea level, the correction required to reduce p to sea level is $P-p$ where

$$\log_e (P/p)=\bar{g}z\,(1-3\,\bar{w}/8p)/K\bar{T}.$$

z=height of station in centimetres.

e=base of Napierian logarithms.

K=gas constant for dry air$=10^9/348{\cdot}4$ C.G.S. units.*

$\bar{T}$=mean absolute temperature of the air column between station level and mean sea level.

$\bar{w}$=mean value of water vapour pressure in the column.

$\bar{g}$=mean value of the acceleration of gravity in the air column. Even at Eskdalemuir, the highest station, the effect on the correction of the variation of gravity with height is, in this case, negligible, so that

$$\bar{g}=980{\cdot}617\,(1-0{\cdot}00259\cos 2\lambda).$$

The factor $(1-3\,\bar{w}/8p)$ in the above formula is practically unity except at Eskdalemuir. Its value for that observatory is discussed in the Introduction to the Eskdalemuir section.

In the same way, the value of $\bar{T}$ at each observatory differs inappreciably from the value of air temperature at the observatory, except in the case of Eskdalemuir (*see* Introduction to Eskdalemuir section for details).

Hence at all observatories except Eskdalemuir, no corrections are applied for the effects of water vapour, or of change of air temperature in the column of air between the station and sea level.

The scheme for correcting barometer readings outlined above was introduced for Eskdalemuir at the beginning of 1927. For the other observatories, it has come into effect as from 1st January, 1928. The effects of the introduction of the scheme on the tabulated values are briefly referred to in the several introductions to the individual sections. Only at Eskdalemuir are they at all appreciable.

The tables contain values of pressure at exact hours obtained from the photographic barograms in the manner described on p. 9 ; also daily, monthly and annual means of hourly values, together with the monthly and annual means of diurnal inequalities. Monthly and annual means of the hourly values after reduction to mean sea level are also given.

There is also a table showing the daily extremes of pressure, *i.e.*, the maximum and minimum values recorded during each day.

Temperature.—The scale on which temperatures are recorded is such that the freezing point of water under atmospheric pressure is 273°A precisely. Other temperatures differ by 273·0 from readings on the Centigrade scale.

The scale approximates to the absolute scale defined by Lord Kelvin, on which the temperature of the freezing point is 273·1 to the nearest tenth of a degree.† Accordingly, to convert temperatures published in this volume to the Kelvin scale, a correction + 0·1 is to be added to each reading.

As an alternative to the application of this correction modified values may be used for the constants which enter certain formulæ. For example :—At temperature t on the scale adopted in the Year Book, the radiation according to Stefan's Law‡ is

$$5{\cdot}709\times10^{-5}\,(t+0{\cdot}1)^4\text{erg/(cm.}^2\text{ sec.)}\ ;\ \text{or } 5{\cdot}717\times10^{-5}t^4\text{erg/(cm.}^2\text{sec.)}$$

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* This value depends on a coefficient of expansion of dry air of 1/273 and on the density of dry air at pressure 1013·23 mb. and temperature 273°A, viz., 1293·052 g/m³.

† A. L. Day and R. B. Sosman, *Dictionary of Applied Physics.* Macmillan, London, 1922. Vol. I, p. 840.

‡ The constant 5·709 is the value which has been adopted by the International Research Council for publication in the "*International Critical Tables.*"

In using the modified formulæ we are virtually adopting a scale of temperature with the degrees greater than those of the Centigrade scale, in the ratio of 273·1 to 273. This is the practice of the *Computer's Handbook* of the Meteorological Office.

The tables give the values of temperature at exact hours obtained from the photographic thermograms; also daily, monthly and annual means of hourly values, together with the monthly and annual means of diurnal inequalities. There is also a table showing the daily extremes of temperature.

Humidity.—When the temperature of the wet bulb is above 273°A, values of relative humidity at exact hours are deduced from the corresponding values of dry and wet bulb temperatures obtained from tabulations of the photographic thermographs, complete saturation being taken as 100. Until the end of the year 1925 the reduction was effected from tables based on Glaisher's hygrometric factors,* but from 1st January, 1926, tables have been employed which proceed from Regnault's formula

$$x = f - Ap\,(t - t'),$$

where x = vapour pressure under the conditions of observation.
f = saturation vapour pressure at the temperature (t') of the wet bulb.
p = pressure of the air.
t = temperature of the dry bulb in absolute (Centigrade) degrees.
t' = temperature of the wet bulb in the same units.
A = a constant.

The tables used in this volume for determining the hourly values of relative humidity when the wet bulb is above the freezing point are *Jelineks Psychrometer-Tafeln* (6th edition, Leipzig, 1911). They give values which are in almost exact agreement with those given by *Hygrometric Tables* published by the Meteorological Office in 1924 (M.O. 265) for general use at second and third order stations. The latter tables are not suited to the purposes of this Year Book, because in them temperature is expressed in Fahrenheit degrees, whereas the absolute Centigrade scale of temperature is used at the observatories.

No allowance for variation of pressure p is made and the standard value used in Jelinek's tables, *i.e.*, 755 mm. of mercury (1006·57 mb.), is adhered to. Similarly no allowance is made in the adopted value of the constant "A" for the speed of the air flowing past the wet bulb, though it is well known that "A" is not independent of the ventilation. "A" is regarded as fixed and equal to ·0008. In view of the well-marked diurnal variation of wind-speed, the diurnal variation of humidity, derived in this manner, is subject to slight modification.

When the wet bulb reading does not exceed 273°A, the above method of reduction is not followed, but values of relative humidity are derived from the record of the hair hygrograph. To these values are applied appropriate corrections based on a comparison between the readings of the record of that instrument and the corresponding values of humidity computed from dry and wet bulb readings during neighbouring periods when the wet bulb readings exceeded 273°A.

The mean values of vapour pressure are computed by slide rule from a table† of saturation vapour pressure over water, and the corresponding mean values of relative humidity and air temperature.

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* Glaisher's Hygrometical Tables, 7th edition, London, 1885.

† The saturation vapour pressures used are those employed in the preparation of *Hygrometric Tables*. They are equivalent to those published by Scheel and Heuse in *Annalen der Physik*, 1910.

The normal hourly values of relative humidity for the period 1886–1915, published for certain Observatories in "Hourly Values from Autographic Records, 1917," were derived from tables based on Glaisher's factors. The application of the new tables to the normal hourly values of dry and wet-bulb temperature gives results for normal relative humidity which are only slightly different from those which have been published. At Kew Observatory in winter the difference is negligible; in July it does not exceed 1 per cent. at any hour, in October it does not exceed 2 per cent. at any hour. The effect is greatest in April, when the published normal values of average relative humidity are reduced by 3 per cent. at noon and at 16h. and by smaller amounts at other hours.

Of greater importance is the effect on the values of absolute minimum humidity. Under the old system, entries of relative humidity less than 30 per cent. seldom occurred; under the new system, entries less than 20 per cent. may occur not infrequently.

Tables are printed giving the values of relative humidity at exact hours together with daily, monthly and annual means of hourly values. Monthly and annual means of vapour pressure computed from the corresponding mean values of temperature and relative humidity, together with monthly and annual means of diurnal inequalities of relative humidity, are also given.

Rainfall.—Tables are given showing for the 60-minute intervals between exact hours* the amount of precipitation, expressed in millimetres, derived from the record of the Beckley gauge (see p. 11). Totals of amount are given for each day, and for each month; the latter totals referring both to the complete days of the month, and to each of the hours of the day. When zero rainfall is assigned to a particular hour, the entry appears as "...". Corresponding totals of durations of rainfall are also given, the duration being regarded as the number of hours during which rain falls at a rate of not less than 0·1 millimetre per hour. If slight precipitation, due to rain, snow, fog or dew, extends over some hours, and if the amounts collected in some or all of the hours are less than ·1 mm., the fact is indicated by a succession of entries, each of which is enclosed within brackets, covering the period over which precipitation is known or believed to have occurred. In such cases entries of (·1) are allocated evenly among the hours concerned in such a way that their sum is equal to the aggregate fall during the period, and the remaining entries are (...), (*), (≡:) or (⌂) according as the precipitation took the form of rain, snow, fog or dew. Slight precipitation which takes other forms such as hail, sleet, hoar frost, glazed frost and rime is dealt with similarly. When it is impossible to determine the hourly amounts of precipitation, *e.g.*, during snowfall or on occasions when the record has failed, the normal procedure is to consider each case on its merits, and to assign hourly values derived from estimates made by the observers as soon as possible after the event. Such values are also enclosed in brackets.

Annual totals of hourly amounts and duration and notes on special features of the rainfall of the year are also given.

Sunshine.—Tables are given showing for each of the 60-minute intervals between exact hours† according to *local apparent time*, from sunrise to sunset, the duration of bright sunshine recorded by the Campbell-Stokes instrument. The sums and means of hourly amounts are also given. For each day is shown the total duration of bright sunshine, and also the percentage this represents of the "possible" duration for the day. The "possible" for each day is computed as the period of time beginning and ending at the instants when the centre of the sun is apparently on the horizon, due allowance being made for atmospheric refraction. Even on a clear day the sun, when

* For the years 1904 to 1920 it was the practice to tabulate rainfall for the periods of 60 minutes centred at the exact hours; the reversion to the method in use before 1904 occurred on 1st January, 1921.

† Before 1st January, 1921, sunshine was tabulated for the periods of 60 minutes centred at exact hours.

at an altitude less than $2\frac{1}{2}°$ to $3°$ above the horizon, fails to make a scorch on the card of the Campbell-Stokes recorder.

A distinction is made in the tables between (*a*) sunshine not possible, and (*b*) sunshine possible but none recorded. If, in any hour, sunshine is not possible, the symbol "—" is used; if more than 3 minutes of "possible" sunshine falls in the 60-minute interval between exact hours according to local apparent time, and if no sunshine was recorded, the symbol "..." is printed.

The values for the months and for the year of percentage of possible duration of sunshine are obtained by comparing the total recorded sunshine for the period with the total "possible" sunshine for the period.

Wind.—Tables are printed giving the hourly values of wind speed and direction, together with the mean speed for each day, each hour, and for the month and year. Values of speed are expressed in metres per second (1 metre per second=2·2369 miles per hour): those of direction are given in degrees from true north. The values of direction* and speed are averages for periods of sixty minutes, centred at the exact hours of Greenwich Mean Time. They are obtained by estimation from the records with the aid of a transparent scale, with engraved graduations corresponding with the velocity, direction and time scales of the record.

When the record shows that the vane is sticking and is not responding to the variations of the wind the readings of both direction and velocity are regarded as untrustworthy and are not tabulated, the symbol "..." being entered instead. In such cases the velocity is usually less than 1 m/s and the symbol "..." is regarded as equivalent to 0·5 m/s for the purpose of evaluating the daily mean velocity. In other cases of lost record, estimated values are entered within brackets wherever possible.

The daily values of the speed and time of occurrence of the maximum gust and the monthly distribution of wind are shown in other tables.

Minimum Night Temperature on the Grass.—Values are given for each day of the year together with monthly and annual mean values. The interval to which the reading refers is from 18h the previous day to 7h on the day to which it is entered.

Diary of Cloud, Visibility and Weather.—In these tables are given particulars of the cloud forms observed daily at 7h, 13h, and 18h, the total cloud amount observed at 7h, 9h, 13h, 15h, 18h, and 21h, the range of visibility at each of these six hours and the kind of precipitation when any was falling at those hours. There is also a column devoted to remarks on the weather of the day.

Cloud Form.—The observations of cloud form are made in accordance with the International classification, and the following abbreviations are used in the tables:—

Cirrus	Ci.
Cirro-Stratus	Ci-St.
Cirro-Cumulus	Ci-Cu.
Alto-Cumulus	A-Cu.
Alto-Stratus	A-St.
Strato-Cumulus	St-Cu.
Nimbus	Nb.
Cumulus	Cu.
Cumulo-Nimbus	Cu-Nb.
Stratus	St.
Stratus-cumuliformis	St-Cuf.
Fracto-(prefix, as in fracto-stratus)	Fr-.
-lenticularis (affix, as in stratus-lenticularis) ..	-lent.
Mammato-cumulus..	M-Cu.

* Formerly it was the practice to take the direction at the exact hour. The present rule was adopted as from 1st May, 1915 (see also Introduction to *Hourly Values from Autographic Records*, 1913, p. xv.).

All the cloud forms noted by the observer at the time of observation are printed where space permits. When the number of forms is too great to allow of this, the predominating forms selected at the time of observation to give the best representation of the cloud canopy are printed. If high or medium cloud can be seen, one of the selected types is normally a high or medium cloud.

Cloud Amount.—The figure given for the amount of cloud denotes the proportion of the sky covered by cloud, the numerical scale running from 0, cloudless, to 10, completely overcast. The figure denotes the total cloudiness irrespective of form. In the case of fog through which it is impossible to discern the sun or stars the cloud amount is entered as 10, but if cloud can be seen through the fog, the form and amount of that cloud are entered in the usual way. If the sun or stars are visible through fog and if there is no evidence of cloud above the fog the amount is entered as 0.

Visibility.—Observations of the range of horizontal visibility made every day at 7h, 9h, 13h, 15h, 18h, and 21h, are printed in the diaries of cloud and weather.

As described in detail in the *Meteorological Observer's Handbook* (Ed. 1926), a series of selected objects, A, B, C..., as nearly as possible at the standard distances given in the table which follows, is used for this observation. The objects are selected so as to be readily seen and identified from specified observing points in daylight.

SCHEME FOR OBSERVATIONS OF RANGE OF VISIBILITY AND OF FOG, MIST AND HAZE.

Indication Letter of Object.	Standard Distance of Object.	Verbal Description.	Beaufort Letters.	
			Detailed Scale.	Contracted Scale.
	Metres.			
(X)	—	Dense fog	8 f	F
A	25		7 f	
B	50	Thick fog	6 f	
C	100		5 f	
D	200	Fog	4 f	f
E	500	Moderate fog	3 f	
F	1,000	Mist, haze or very poor visibility	m or z	m or z.
G	2,000	Poor visibility	m_0 or z_0	m_0 or z_0
H	4,000	Moderate visibility		
I	7,000			
J	10,000	Good visibility		
K	20,000	Very good visibility		
L	30,000			
M	50,000	Excellent visibility		

NOTE.—The grouping of the letters by the horizontal lines indicates the limits of the several figures of the International Telegraph Code for visibility, from 0 to 9, which grouping is also adopted in the tables of frequencies published in the *Monthly Weather Report.*

when the air is clear. A variation up to 10 per cent. from the standard distances is considered admissible. Particulars of the objects in use at each observatory, together with a statement of their actual distances and bearings from the point of observation and notes on local peculiarities which affect the observations, will be found in the Introductions to the sections for the individual observatories.

The method of observing consists in determining which is the most distant of the selected objects that can be identified and entering the corresponding letter. In cases of uncertainty when the observer, though recognising the presence of an object, would be unable to identify its nature from the observations he is able to make *at the time*, the letter corresponding with the next nearer object is entered. If object A, the nearest of the selected objects cannot be identified, an entry X is made. At night the letters are used to denote as nearly as possible corresponding degrees of atmospheric obscurity.

Small letters are used to indicate interpolations or extrapolations made in cases where it has not been possible to find suitable objects within 10 per cent. of the standard distances. In such cases the observer may use objects at other than the standard distances to guide his judgment. Particulars of such auxiliary objects will be found in the sectional introductions.

At Cahirciveen, visibility is recorded in both landward and seaward directions. The observations of visibility landwards are printed in the main tables. Particulars of occasions when visibility seawards differed from visibility landwards are set out in the Introduction to the Cahirciveen Section.

Fog, Mist and Haze.—The table of standard distances of visibility objects also summarizes the descriptions used in connection with the phenomena of fog, mist and haze, and relates them to the scale of visibility. It also contains the Beaufort letters used for these phenomena in the Remarks column of the diary. In this Year Book as in other publications of the Meteorological Office, statistics of fog, mist and haze are based solely on visibility observations. The term *fog* is restricted to occasions when the visibility is less than 1 kilometre (*i.e.*, object F not visible); the terms *mist* and *haze* to occasions when the visibility is greater than 1 kilometre, but less than 2 kilometres (*i.e.*, object "F" visible, but "G" not visible). The distinction between mist (m) and haze (z) is determined by the depression of the wet bulb. When the visibility is between the limits specified for mist or haze, haze is recorded when the depression of the wet bulb is more than 1°F; if the depression of the wet bulb does not exceed this limit, the term *mist* is used.

In volumes previous to 1926, occasions of haze, mist and fog were indicated by the International symbols for these phenomena, viz., ∞, $\equiv^{\circ}$ and $\equiv$ respectively, but the relation of these terms to the visibility scale was less rigorous. In order to indicate that a change in procedure has occurred in this matter, the three International symbols for haze, mist and fog are no longer used.

Precipitation.—Whenever precipitation is falling at one of the six hours of observation there is printed in the Diary of Cloud and Weather under the heading "Precipitation" the International weather symbol which indicates the kind of precipitation, in accordance with the list below.

Remarks.—For the purposes of the column headed "Remarks on the Weather of the Day," it is usual to consider the day as divided into three portions, viz., morning, afternoon and night, denoted by *a*, *p*, *n*, respectively, but it should be noted that no arrangements are made for regular eye observation of weather changes in the period 21h 30m to 6h 30m.

The entries in the remarks column consist very largely of international weather symbols and the letters of the Beaufort scale. These symbols and letters are as follows :—

Beaufort Notation and International Weather Symbols.

b		blue sky, whether with clear or hazy atmosphere.	r	●	rain.
				←	ice crystals in the air.
c		cloudy, *i.e.*, detached opening clouds.	s	✱	snow.
o		overcast, *i.e.*, the whole sky covered with one impervious cloud.	rs		sleet.
				+	drift snow.
g		gloomy.			snow lying. (More than half the surrounding country covered with snow.)
u		ugly, threatening.			
v	0	visibility, unusually clear atmosphere.			
z		haze.*	h	▲	hail.
m		mist, light fog.*		△	soft hail.
f		fog.*	t	T	thunder.
fe		wet fog, *i.e.*, fog which deposits water copiously on exposed surfaces.	l		lightning.
			tlr		thunderstorm.
w		dew.			gale.
x	⊔	hoar frost.	q		squalls.
	V	rime.			solar corona.
		glazed frost.		⊕	solar halo.
e		water deposited copiously on exposed surfaces, without rain falling.			lunar corona.
					lunar halo.
y		dry air. (Relative humidity less than 60 per cent.)		⌒	rainbow.
					aurora.
p		passing showers.			zodiacal light.
d		drizzling rain.			mirage.

The letter *i* preceding a letter or symbol which denotes some form of precipitation indicates that the precipitation is of an "intermittent" or "occasional" character.

The letter *j* preceding a letter or symbol which denotes some form of precipitation indicates that the precipitation is within sight, though not actually falling at the station.

The figure 0 written after and above a symbol indicates slight, whilst the figure 2 indicates strong or heavy; thus ●^{0} slight rain, ●^{2} heavy rain. The figures 0 and 2 written after and below the letters of the Beaufort notation are also used with a similar significance, thus d_0 stands for slight drizzle.

The letters b, c, o, g and u, are used to describe the general appearance of the sky. The use of the letters g and u is sufficiently clear from the definitions given above. o is used whenever the sky is completely overcast with a uniform layer of thick or heavy cloud; c is used to denote that there is some cloud present, but o is not appropriate; b denotes that there is some blue sky.†

In order to meet difficulties which occur when there are only small quantities of cloud or blue sky present, c is not used unless the sky is more than a quarter covered, and b unless there is more than a quarter of the sky free from cloud. If there is more than a quarter of the sky covered with cloud and more than a quarter of the sky free from cloud b and c are both recorded.

The gale symbol is normally used in this publication to indicate that the wind as recorded by the anemograph averaged at least 17·2 *m/s* for one or more "centred" hours. At Richmond (Kew Observatory) the symbol has been used with the word gust in brackets to indicate the occurrence of gusts reaching 17·2 *m/s*.

---

* To indicate varying intensities of haze, mist and fog the notation shown in the last two columns of the table on p. 18 is used.

† The present usage with regard to b, c and o dates from 1st Jan., 1926.

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M.O. 350
(Lerwick)

Air Ministry
METEOROLOGICAL OFFICE

THE OBSERVATORIES' YEAR BOOK 1931

Comprising the meteorological and geophysical results obtained from autographic records and eye observations at the observatories at Lerwick, Aberdeen, Eskdalemuir, Cahirciveen (Valentia Observatory), and Richmond (Kew Observatory), and the results of soundings of the upper atmosphere by means of registering balloons.

LERWICK

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METEOROLOGICAL COMMITTEE

LONDON
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1933

LERWICK OBSERVATORY.

Latitude	60° 8′ N.
Longitude	1° 11′ W.
G.M.T. of Local Mean Noon	12h. 5m.
Height of Site above Sea-level	From 80·5 metres. to 90·0 metres.

INTRODUCTION.

GENERAL REMARKS.

In 1919 the establishment of an observatory in the Shetlands was included in the programme of the Meteorological Office. A wireless station, built in 1913 by the Admiralty and transferred after the war to the Post Office, but used by that Department only in case of emergency, offered suitable accommodation in the way of offices and living quarters. It proved possible to make an arrangement under which the Air Ministry has the use of the station as an observatory.

The Observatory was opened on the 7th June, 1921, when the first instalment of the instrumental equipment arrived. Later on in the same year the construction of a magnetograph house and of huts for absolute magnetic and auroral observations was commenced. The magnetograph house is a heavy concrete structure with walls 2 feet 6 inches (76 cm.) thick, of internal dimensions 16 feet by 10 feet (4·9 m. × 3 m.), and after construction several months had to elapse before the thick concrete walls and roof could be thoroughly dried and the recording instruments placed in position. These instruments, which are described below, consist of magnetographs recording magnetic declination and horizontal and vertical force. More recently subsidiary magnetographs recording the same elements have been installed in one of the adjacent non-magnetic huts; the records obtained therefrom are used to cover lacunæ in the standard traces or for special investigations.

Other instruments installed at the Observatory included barometers, barographs, hygrograph, psychrometers, nephoscope, rain-gauges (ordinary and self-recording), sunshine recorder and Dines tube anemograph and, later, an electrograph; and in 1928 a Krogness auroral camera. But meteorological observations have been restricted, and the time of the somewhat limited staff available has been devoted chiefly to magnetic work, to some work in atmospheric electricity and latterly to auroral photography.

The site and the work in Atmospheric Electricity and Terrestrial Magnetism will now be described.

SITE.

The Observatory is situated on a ridge of high ground about a mile and a half (2·4 km.) to the south-west of Lerwick and adjoins the main road between Lerwick and Scalloway. The site slopes upward from west-north-west to east-south-east, the average height above M.S.L. being about 280 feet (85 metres). The ground to the east and south-east rises slightly for about ¼ mile (·4 km.) then slopes sharply down to the sea. In other directions there is a downward slope for about ¼ mile extending to the Loch of Trebister on the south-west, Sandy Loch to north-west, and to the Burn of Sound to north-north-west ; beyond these and distant about ¾ mile (1·2 km.) from the Observatory are small hills—Munger Hill to the south is about 320 feet (97 metres) above M.S.L., Shurton Hill to west-north-west rises to 576 feet (176 metres), and Stony Hill to the north to about 400 feet (122 metres). In clear weather it is possible to see the Outer Skerries, 25½ miles (41 km.) north-east by north, and Sumburgh Head, 20 miles (32 km.) south by west ; the horizon in other directions is limited to a few miles.

The average depth of soil in the vicinity is about a foot, and outcrops of sandstone occur in many places. The surrounding country is barren and desolate, the only vegetation being coarse grass, stunted heather, and moss, with occasional patches of bare black peat. The Observatory ground is of a very uneven nature, and, owing to lack of proper drainage, is frequently water-logged. Views of the station are shown and the arrangement of buildings and situation of instruments are set out on a site plan in *The Observatories' Year Book*, 1928.

ATMOSPHERIC ELECTRICITY.

Notes on the Instruments.—The records of potential gradient are obtained from a Benndorf electrograph (No. 108, by L. Castagna, Vienna) which since 1926 has been installed in the north-west corner of the Office Block. The site is divergent from the ideal for two reasons :—

(1) There is distortion of the equipotential surfaces by adjacent houses, wireless plant, etc.,

(2) It is a comparatively large distance (236 metres) away from the ground where absolute determinations are made.

Consideration of the variations of mean monthly values of the reduction factor shows that these disadvantages are less serious than might be anticipated.

The collector rod passes through a window in the north wall, and is situated 190 cm. from the corner of the building. The collector is 476 cm. above the ground and projects 123 cm. from the window. The collectors are of polonium deposited on a copper rod, about 4 cms. long by 0·5 cm. diameter ; these are recoated periodically by arrangement with the Government Chemist, and a fresh collector is brought into use on the first day of each quarter. The collector is screwed into the smaller end of a tapered German silver tube, 76 cm. long, and of triangular cross section, which, in turn, is attached to a "Duralumin" tube, 89 cm. long and 1·3 cm. in diameter. The latter tube passes through a hole, 3·8 cm. diameter, in one end of a wooden box (dimensions 38 × 25 × 10 cm.), where it is supported horizontally between the ends of two metal rods embedded in sulphur. A number of small 2-volt electric bulbs are kept burning inside the box in order to improve the insulation of the supports for the collector rod during wet weather, and a similar bulb is placed inside the case of the electrometer. The rod is connected to the base of the acid pot of the Benndorf electrometer by a fine wire. A detailed description of this instrument is to be found in *Phys. Zeit.* 7 (1906), p. 98, whilst the general principle is described in Mathias' *Traité d'Électricité Atmosphérique et Tellurique*, p. 54, and in Chauveau's *Electricité Atmosphérique*, pp. 61–64.

The record consists of a series of dots made once a minute on a long roll of paper as it is unwound from a drum by clockwork, exact hours being indicated by dots near the edge of the sheet. Timing is taken from electric clock No. 1,031, governed by the Observatory standard, Shelton No. 35. The needle of the electrometer is earthed at least once daily, and a zero line is obtained by connecting up these earth marks; owing to the constancy of the perpendicular distance between the zero line and the line through the hour marks, further intermediate positions of the zero are easily obtained. The scale value has been about 24 volts per millimetre, which permits a range from +1800 to −1400 volts per metre in the open to be recorded.

Combined tests of the insulation of the system and scale value of the record are made daily, the procedure being to remove the collector and to charge the needle, which is connected to a Wulf electrometer. The rate of leak is obtained for a period of 4 minutes with a positive charge and for the same interval with a negative charge. Considering the climatic difficulties the behaviour of the instrument in the matter of insulation has been very satisfactory. The rate of leak has been in general small, the average during 1931 being such that the instrument would lose half its potential in 49 minutes. It has been found that the scale value remains reasonably steady and may, for all practical purposes, be taken as constant across the full width of the sheet. The factor by which the recorded potential must be multiplied for conversion into potential gradient in the open is obtained from absolute measurements above a levelled piece of ground near the old site of the electrograph (see site plan in *The Observatories' Year Book*, 1928). An insulated wire, stretched horizontally between two stout wooden posts 121 cm. in height and 9·48 m. apart, carries at its centre a burning fuse exactly 1 metre above the ground. A Wulf electrometer, usually No. 5225 (Günther & Tegetmeyer, Brunswick), is connected to one end of the wire and twenty to thirty readings are obtained from the electrometer at half-minute intervals. The reduction factor is deduced from the mean of these values and the corresponding mean potential at the collector as recorded by the Benndorf electrograph. Smoothed monthly means of the factors so obtained are employed in reduction of the records. The calibration of the Wulf electrometers is checked periodically, using a Gambrell potentiometer and standard cells. There was no change in any essential part of the apparatus or in the observational technique throughout the year 1931.

Monthly scale values and exposure factors, together with data relating to rate of leak, are shown in the following table:—

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
Mean Value of $-\frac{d}{dt}\log_e V$.	·015	·015	·012	·013	·012	·015	·012	·013	·014	·016	·012	·015	·014
No. of days used in mean	30	23	28	28	30	27	28	28	27	20	24	24	317
Highest $-\frac{d}{dt}\log_e V$. ...	·020	·021	·017	·019	·017	·019	·019	·015	·017	·021	·019	·025	—
Lowest $-\frac{d}{dt}\log_e V$. ...	·011	·008	·007	·007	·008	·012	·004	·009	·011	·011	·008	·009	—
Scale Value (v/mm) ...	23·1	23·0	22·8	(23·1)* (24·3)	24·4	24·5	24·5	24·4	24·4	24·9	24·8	25·0	—
Mean Exposure Factor ...	1·26	1·31	1·33	1·34	1·34	1·24	1·38	1·30	1·33	1·39	1·30	1·31	1·32
Applied Exposure Factor	1·29	1·30	1·33	1·34	1·31	1·30	1·33	1·33	1·34	1·35	1·33	1·29	1·32
No. of Determinations of Exposure Factor ...	7	3	11	10	11	9	9	12	11	4	7	8	102

* Change of Scale Value occurred on 14th April.

Tests of the rate of rise of potential of the Benndorf recorder with a polonium collector were made in September, 1930, and it was found that the potential rose from zero to half the final value in about 4 seconds. Sometimes when there is no wind the rate of rise of potential is very much slower and apparently nearly linear. If the instrument rises through a potential V and has a capacity C* a quantity of electricity CV has to be given to the air in the neighbourhood of the collector, and in the absence of wind and the presence of fog this may hang about in the form of a heavily charged cloud for a considerable time before being dispersed. Fortunately these conditions are rare at Lerwick except in early summer.

If we assume the leaking and the charging to be exponential, i.e.,—

$$\text{If } \frac{dV}{dt} = -K_L V$$

$$\text{and } \frac{d(V_o - V)}{dt} = K_C (V_o - V)$$

where K_L measures the rate of leak,
K_C ,, ,, charging,
and V_o is the potential of the air near the collector,

then the potential finally acquired by the instrument is $V_o K_C/(K_L+K_C)$.

The ratio K_L/K_C is only about 1/750 so that there is no appreciable error in the readings from this cause.

In the years 1927 to 1929 the exposure factor was higher in summer than in winter, but no variation of this kind can be perceived in the factors for 1930 or 1931. Indeed the lowest value in 1931 was in June (1·24) and the highest in October (1·39). The vegetation in the vicinity of the site for the absolute observations changes very slightly throughout the year and the grass on the site itself is kept short. A larger contribution to the variations of the factor is probably made by a combination of effects due to peculiarities of the electrograph site and wind direction. In this connection the following table shows the mean values of the exposure factor for 1931 summarized according to wind direction :—

	Calm.	N	NE	E	SE	S	SW	W	NW	1931
Mean Factor	1·39	1·37	1·29	1·25	1·28	1·37	1·37	1·29	1·29	1·32
No. of Observations	4	8	15	8	12	15	12	9	19	102

Relatively high values of the factor are associated with winds from north, south, and south-west, for which directions the electrograph collector has a good exposure. The exposure in other directions is obstructed by adjacent buildings, and the depression of the factor depends upon the proximity of these obstructions to the collector. The lower factors, resulting from the higher potential of the collector when shielded from the wind, also follow from R. A. Watson's conclusion that potential gradient is inversely dependent upon wind speed. (Geophysical Memoir No. 38). Wind direction, however, appears to have no appreciable bearing upon the annual variation of factor discussed in the preceding paragraph.

* The capacity was measured in October, 1930, and found to be approximately 75 cms.

On 28th June, 4th July, and 12th September, 1928, measurements were made of potential gradient above fairly smooth ground near sea level. The determinations on the two earlier dates were taken at the Point of Trebister, $2\frac{1}{4}$ km. south-south-east of the Observatory, those on the third near the Sands of Sound, 1 km. to the east. In all, ten series of observations were obtained. The mean electrograph exposure factor computed therefrom works out at 1·36, a value in close agreement with the standard determinations.

IDENTIFICATION NUMBERS OF INSTRUMENTS USED IN 1931.

Benndorf electrograph (L. Castagna, Vienna)	108
Wulf bifilar electrometer (Günther & Tegetmeyer, Brunswick)	5225
,, ,, ,, ,, ,, ...	5716

Review of Results—Days when there was a complete trace have been classified as follows by means of an electric character figure :—

0, denotes a day during which, from midnight to midnight, no negative potential was recorded.

1, denotes a day with excursions to the negative not amounting in the aggregate to more than three hours.

2, denotes a day with negative potential amounting in the aggregate to more than three hours.

a, denotes that the range of potential gradient in the open did not exceed 1,000 volts in any of 25 hourly periods of the day.

b, denotes that this range was exceeded in at least one, but in fewer than six, of these periods.

c, denotes that this range was exceeded in six or more of the hourly periods.

The character figures so assigned are given in Table 4.

In the Observatories' Year Book for 1928, for the first time, this table contained also details of the duration of negative potential for each day for which an estimate could reasonably be made. If the record failed when no precipitation fell it was assumed that the potential gradient remained positive ; if, however, precipitation fell when part of the record was lacking no estimate was made except when the part of missing record was small enough and the conditions of precipitation sufficiently continuous to permit the interpolation of the gradient conditions from those obtaining before and after the break.

In the year 1931 there were 7·9 hours less negative potential gradient than in 1930, but two days more on which negative gradients occurred. The daily mean duration of negative gradient was thus 1·52 hours, aginst 1·55 for 1930, 1·55 for 1929 and 1·63 for 1928. In each year the month-to-month variation of mean duration of negative gradient and of mean electric character figure show a close relationship to the variations in rainfall.

Curves are read by use of a mean value glass scale graduated in millimetres, the tabulated values being 60 minute means centred at exact hours G.M.T. The ordinates are converted into volts per metre in the open by multiplying by the product of the appropriate scale value and reduction factor. Values are assigned for 3h, 9h, 15h, and 21h, on all days, and for each hour on "*a*" days.

An indication of the characteristics of indeterminate potentials may be obtained from the tabulations, in which :—

1. Values prefixed by the symbols >, <, indicate that for one or more periods during the hour potential passed beyond the range recorded by the electrograph.
2. z is marked against hours when the potential passed beyond the recorded range in both directions.

The hourly values for 3h, 9h, 15h, and 21h are given in Table 1 ; estimated values, enclosed within brackets, are given in cases where the record was in some manner defective; a dash is entered against hours for which no value can be given with any degree of assurance. Two sets of mean values are given :—(*a*) The means of all positive values ; hours when the trace passed off the top of the sheet are included in obtaining these means, the upper limit of registration being taken as the value for the period not recorded. (*b*) The means for all days on which all four hours were completely recorded or could be estimated.

In all months except May and September the general (*a*) mean from the four selected hours exceeds the (*b*) mean, the difference over the year as a whole amounting to 16 v/m. In five months the means from the o*a* days are greater than the (*a*) means; over the year as a whole the o*a* day mean is 2 v/m less than the (*a*) mean. The annual mean daily values derived in these three ways for the five years 1927–1931 during which the electrograph has been in the same position are :—

			o*a*	(*a*)	(*b*)
1927	..	..	213 v/m	179 v/m	160 v/m
1928	..	..	166 v/m	156 v/m	134 v/m
1929	..	..	162 v/m	161 v/m	133 v/m
1930	..	..	181 v/m	175 v/m	158 v/m
1931	..	..	161 v/m	163 v/m	147 v/m

It is a defect of the Benndorf recorder that even with such a high scale value as 24 v/mm the width of the sheet is frequently exceeded during oscillatory movements. In 1931 there were 86 days on which the electrometer needle went beyond the limits of registration on the positive side and 147 on the negative side; these occasions were mainly when precipitation was falling on the collector. The greatest number of extreme positive excursions were associated with snow or sleet showers and were almost invariably only momentary.

The following are the occasions of potential gradients (positive and negative) exceeding 1000 v/m persistent over periods of at least one hour, a specified hour defining the 60 minute interval centred at the exact hour G.M.T. :—

Positive. February 15d 11h. May 24d 23h.

Negative. January 1d 20h. March 24d 24h. April 2d 21h. to 3d 2h, 28d 2h. May 4d 1h, 13d 16h. November 7d 24h, 18d 23–24h, 23d 19h–22h, 24d 1h–4h. December 3d 11h.

Occasions when the potential gradient was negative for prolonged periods with perhaps only a few temporary changes to positive were noted as follow :—

(I) April 2d 20h 20m to 3d 6h 25m. Negative throughout. Mean gradient <—1233 v/m ; moderate rain throughout.

(II) May 4d 0h 15m to 5d 7h 55m. Potential negative for all this period except about five minutes. Mean gradient <-1187 v/m; moderate rain throughout.

(III) November 7d 18h 49m to 8d 4h 39m. Negative during the whole of this period. Mean gradient <-594 v/m; moderate or heavy rain throughout.

(IV) November 23d 11h 12m to 24d 19h 15m. Negative except for about fifty minutes at 17h. Mean gradient <-1102 v/m; heavy rain during most of the period.

Notable spells of high potential were :—

(I) May 6d 15h 0m to 6d 20h 0m. Mean gradient 724 v/m. Fair.

(II) July 5d 13h 30m to 6d 3h 30m. Mean gradient 599 v/m. Fog.

(III) July 22d 14h 30m to 22d 23h 30m. Mean gradient 580 v/m. Fog.

(IV) July 25d 3h 0m to 12h 0m. Mean gradient 626 v/m. Mist or fog.

There were 70 days on which there occurred apparent changes of potential gradient from the limit of the sheet on the positive side to the limit on the negative side, at least once within an interval of 60 minutes. If these changes were real and not due to charges given to the collector rod by precipitation, they connote a range exceeding 3200 v/m within an hour. Assuming that in Shetland the charge associated with rain may occasionally attain 10 E.S.U. per c.c., it has been found that the gradient recorded may contain a contribution of not less than 50 volts arising from the charge given by the rain. In some of the hours the extreme reversal occurred at least twice within the period.

The diurnal inequalities for 0*a* days for the months, seasons, and year, are given in Table 2, together with mean values of the potential gradient and particulars of the non-cyclic change and the number of days used; the inequalities and other entries for the seasons and year are the means of the corresponding entries for the appropriate months. Similar data for the 1*a* and 2*a* days together are given in Table 3.

The annual mean diurnal variation for 0*a* days during 1931 has a well marked minimum at about 4h and a conspicuous maximum at 19h; secondary maxima and minima occur round 8h and 11h respectively. Similar features are characteristic of the variations for 1927, 1928 and 1930, but in 1929 the secondary oscillation was much smaller. In the separate mean variations for the seasons the evening maximum occurs at 19h in winter, 20h in equinoctial months and 21h in summer months. In winter there is a pronounced secondary maximum at 12h and a minimum at 16h, features which do not appear in other seasons. The inequalities for all 1a and 2a days, i.e. days on which no hour had a range exceeding 1000 v/m, but on which negative potential gradients occurred, are naturally more irregular but are of the same general form as the 0a day ones. The minimum, however, is at 2h–3h and the maximum at 20h. In both 0a and 1a and 2a day inequalities the range is greatest in winter, in this differing from the usual position, for equinoctial months have in the past exhibited much the largest ranges.

TERRESTRIAL MAGNETISM.

Notes on the Instruments.

The standard records of declination and horizontal force are obtained from the Munro magnetographs which were in use at Falmouth until 1912. The instruments had been stored for several years, but were afterwards reconditioned and tested at Kew before being installed at Lerwick in November, 1922.

A new vertical force instrument of the Watson quartz fibre type and supplied by the Cambridge Instrument Company was installed in the standard recording house at the end of November, 1929, and became the standard vertical force instrument from 1st January, 1930. A description of this type of instrument is given in *Terrestrial Magnetism*, Vol. IX (1904), pp. 62–68.

The declination magnet has a unifilar suspension, and the torsion correction is negligible. The scale value is constant for all positions of the light dot on the sheet; throughout the year it was 1 mm. of ordinate to 1·93 minutes of arc. In the horizontal force instrument the magnet is maintained in a position approximately perpendicular to the magnetic meridian by torsion of the bifilar suspension. Copper damping plates are fitted to each instrument and the recording mechanism is similar to that used at Eskdalemuir. The arrangement of the instruments in the magnetograph house is shown in *The Observatories' Year Book*, 1928.

A complete auxiliary magnetograph is maintained, the constituents being a Krogness H magnetograph, a locally adapted declination instrument and the Munro V instrument formerly used as standard. The auxiliary records arranged to function at a low sensitivity have proved their usefulness in supplying record during highly disturbed hours.

The chief instrumental difficulties encountered during the year were :—

(*a*) A slight irregular drift in the case of the horizontal force instrument.

(*b*) A temperature effect in the case of the vertical force instrument. This matter is referred to below.

(*c*) Irregular changes in declination base line values.

Monthly scale values have been assigned to the records by taking overlapping means, except when discontinuities occurred and special measures were required. The determinations in the case of H are made by Broun's method, the deflecting magnet being placed in the "broadside on" position and at a distance of 55·9 cm. from the recording magnets. A larger deflection distance would render the error due to inequality of the distribution coefficients for the H and D magnets less appreciable, but cannot be used owing to the restricted size of the magnetograph house. For standardisation of the vertical force magnetograph, the field is varied by passing known currents (± 40, ± 80, ± 120 milliamps) through Helmholtz Gaugain coils fitted to the instrument. The scale value of H was maintained at approximately 6 γ/mm. and that of V at about 8 γ/mm.

The records of declination, horizontal force and vertical force have been tabulated hour by hour. The values are read off by means of graduated glass scales, a value being the mean reading for 60 minutes centring at the hour.

Base values for the records are obtained from the results of absolute observations, the determinations of declination and horizontal force being taken at least twice weekly, those of dip five or six times in each week. Horizontal force and declination are determined with the unifilar magnetometer on the centre pillar (No. 2) of the absolute hut, the azimuth of the fixed mark being taken as $8° 43' 2''$ east of south. Inclination is measured with the dip circle placed on the East pillar (No. 3), using $3\frac{1}{2}$ inch needles. In the deflection experiment three distances, 25, 30 and 35 cm., are used for obtaining the distribution coefficients, the horizontal force being computed from the deflection at 25 cm. only.

Mean annual values of the P and Q correction have been derived from observations during the period March 1923 to the end of 1931. An accident caused some change to the magnet in March 1923, and values for earlier months have been discarded.

The values during these years are as follows :—

Year.	P.	Q.	$\log_{10}(1+P/25^2+Q/25^4)$.
1923 (March–December) ...	−2·398	−14·36	$\bar{1}$·99831
1924	−1·236	−464·6	$\bar{1}$·99862
1925	−1·165	−875·9	$\bar{1}$·99821
1926	+1·225	−1711·2	$\bar{1}$·99895
1927	+2·229	−2183·8	$\bar{1}$·99912
1928	+0·223	−1395·6	$\bar{1}$·99860
1929	−0·539	−968·5	$\bar{1}$·99855
1930	−1·210	−837·1	$\bar{1}$·99823
1931	−1·041	−895·3	$\bar{1}$·99828

The mean value of $\log_{10}(1 + P/25^2 + Q/25^4)$ employed in the reduction of all observations for 1931 was the mean of the values derived up to the end of 1930, namely, $\bar{1}$·99857. If the 1931 value is added, the mean for the total available period becomes $\bar{1}$·99854. The adoption of this latter value would lower all the hourly values, monthly means, etc., as given in the tables by 0·5γ in the case of H and 1·5γ in the case of V.

As stated in the general remarks the walls of the magnetograph chamber are of concrete, 2 feet 6 inches in thickness. The diurnal variation of temperature within the chamber is, for most days of the year, negligibly small and no corrections for this diurnal variation have been applied to the diurnal inequalities or other data published in this volume. From the magnetograph house temperatures for each day given in the Tables, however, it will be noted that the day-to-day change of temperature is sometimes considerable. The average change day-to-day in degrees absolute over each of the twelve months of 1931 and for the year as a whole was as follows :—

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
0·43	0·34	0·37	0·33	0·37	0·22	0·30	0·35	0·30	0·46	0·27	0·51	0·36

There were 18 occasions on which the change reached or exceeded 1°A. These rapid fluctuations of temperature obviously add considerably to the problem of satisfactorily determining base line values in the cases of the horizontal and vertical force magnetographs. The temperature coefficient of the former is known with fair accuracy, being taken to be 6·1γ per 1°A.; consideration of the trend of base values indicates that the error introduced by omitting to apply a correction for temperature of the magnetograph is usually less than the error of observation and that it would be desirable to have absolute observations made more frequently than twice weekly. For another reason, namely that magnetic disturbance at Lerwick is so much more frequent and so much more considerable than at more southerly observatories, it would similarly be desirable to have very frequent absolute observations, with a view to the retention only of those made at times when the autographic records indicate a reasonably constant magnetic field. With the existing staff and instruments it has not, however, been possible to contemplate any increase in the observations of horizontal force.

In the case of the new vertical force instrument it had not been possible, before taking it into use in the magnetograph house, to determine exactly what adjustment would be required to compensate for changes of temperature. An analysis of the records of the year 1930, carried out after the end of the year, afforded convincing evidence that the instrument behaved consistently with a temperature coefficient of -24γ per 1°A. This coefficient was adopted and used in adjusting base line values until October 20, 1931. After that an attempt was made to reduce the temperature coefficient. From December 1 the instrument was in use again with a temperature coefficient of -5γ per 1°A. The records of the subsidiary magnetograph have been used to cover the intervening period. On October 25, however, the subsidiary record was subject to some uncertainty on account of the temperature change and this day, though included in the table of hourly values, was omitted in working the quiet-day and all-day inequalities.

As mentioned above, no attempt has been made to correct the diurnal inequalities for the very small and rather uncertain diurnal variation of temperature to which the chamber may be subject.

AURORA.

From about September to April a watch for aurora is maintained, normally until about 23h G.M.T. each evening, and observations—as a rule at intervals of 15 to 20 minutes—are made of the northern horizon and of general meteorological conditions. The records form what is called the auroral log, a brief summary of which is given in Table 67. When any auroral display is observed, a second observer is called and detailed observations are maintained until the display subsides. These detailed observations have consisted in noting and making descriptions of the phenomena seen during the display, and have been supplemented whenever possible by photographs taken with the Krogness camera. The descriptive notes are entered in a second log reserved for records of actual auroral displays. Extracts from this latter log may be obtained by anyone requiring the detailed information.

A general auroral table for Scotland (Table 68) is also included. This table has been compiled from the records of all stations at which climatological observations or weather logs are maintained. The observers at these stations, whilst noting occasions of aurora which they may happen to observe, do not in general maintain a special watch.

Notes on the Tables.

The hourly values of H, D and V, obtained as described above, appear in three of the four monthly tables. The variations in D, being expressed in minutes, may be readily converted to units of force (γ) of the component perpendicular to the magnetic meridian by multiplying by a factor which for 1931 is approximately 4·23. A rough comparison of the H, D and V registrations with component registrations (geographical N and W, and V) as for instance at Eskdalemuir, can then be easily made. The mean value for the day is computed according to the expression :—

$$x = \{\tfrac{1}{2}(x_0 + x_{24}) + x_1 + x_2 + \ldots\ldots\ldots\ldots + x_{23}\}/24.$$

The letters "Q" and "D," prefixed to dates, denote the five quiet and the five disturbed days as selected at De Bilt.

In the fourth table for each month are given :—

(*a*) The values and times of the daily maximum and minimum and the values of the absolute daily range for each of the elements H, D and V.

(*b*) The value of ΣR^2 for each day. ΣR^2 is written for $R^2_H + R^2_D + R^2_V$ where R_H, R_D and R_V denote the absolute ranges in force for a calendar day of the components along and perpendicular to the magnetic meridian and of the vertical component, the ranges in declination having been for this purpose converted into units of force of the component perpendicular to the magnetic meridian.

(*c*) The daily magnetic character figures, assigned according to the international scheme wherein "0," "1," "2," respectively, denote quiet, moderately disturbed, and highly disturbed conditions.

(*d*) The daily values of temperature in the magnetic chamber.

Mean diurnal inequalities of H, D and V on all days and on international quiet and disturbed days are given, for the months, seasons and year, in Tables 53 to 61.

In calculating diurnal inequalities the non-cyclic change has been eliminated on the assumption that its time rate is linear. The values of the range of the mean diurnal inequalities of the several elements on the three different types of day are brought together in Table 62, and the values of the non-cyclic change are given in Table 64. The "Average Departures," or mean values of the inequality taken irrespectively of sign, throughout the 24 hours, are given in Table 63.

The mean values of the squares of the absolute daily ranges are summarized in Table 65.

In Table 66 appear for the months and year the mean values of N, W, V, D, I, H and Total Force T. The means of N, W, I and T are derived from the corresponding mean values of H, D and V, which are the means of hourly values on all days in the month or year.

Finally, in Tables 67 and 68 are given summaries of auroral observations obtained as already described.

Review of Results.

Mean and Extreme Values of the Magnetic Elements, 1930.—The mean values of the magnetic elements for the years 1930 and 1931 are given in Table I. The values of H, D and V have been computed from the hourly values derived from the autographic records of all days, standardized by means of the absolute observations; those of N, W, I and T have been deduced from the values of H, D and V.

TABLE I.

Year.	H.	D. (West)	I.	N.	W.	V.	T.
	γ	° ′	° ′	γ	γ	γ	γ
1930	14527	14 11·2	72 41·6	14084	3561	46624	48835
1931	14517	13 59·6	72 42·3	14086	3510	46623	48830

The decrease in westerly declination from 1930 to 1931 (11′·6) was less than in the previous year (12′·4). The rates for the six years earlier were 13′·8 for 1923–24, 13′·0 for 1924–25, 14′·9 for 1925–26, 12′·9 for 1926–27, 12′·8 for 1927–28, and 13′·7 for 1928-29.

Mean values derived from (*a*) international quiet days and (*b*) international disturbed days are as follow:—(*a*) H, 14519γ; D, 13°59′·7; V, 46623γ; (*b*) H, 14512γ; D, 13°59′·3; V, 46621γ.

The extreme values of H, D and V recorded during 1931 are given in Table II.

TABLE II.

Element.	Maximum.		Minimum.		Absolute Annual Range.
	Value.	Date, 1931.	Value.	Date, 1931.	
		d. h. m.		d. h. m.	
Horizontal Force ...	15001γ	Oct. 29 ... 15 51	13841γ	Oct. 29 ... 20 53	1160γ
Declination	14° 46′·9	Feb. 24 ... 18 56	13° 19′·7	Oct. 29 ... 20 47	1° 27′·2
Vertical Force ...	46878γ	Nov. 26 ... 15 15	46149γ	Oct. 29 ... 20 56	729γ

The range of 1° 27′·2 in declination is equivalent to a range of 369γ in the component of force perpendicular to the magnetic meridian. In the year 1930 larger ranges were recorded in all three elements.

Magnetic character of the year.—The following table shows the mean sunspot numbers for recent years, together with the mean absolute daily range of declination, as a rough measure of magnetic activity :—

Year	1923	1924	1925	1926	1927	1928	1929	1930	1931
Mean Sunspot No.	5·8	16·7	44·3	63·9	69·0	76·8	64·2	38·9	20·9
Mean absolute daily range of D.	14′·9	15′·4	18′·1	25′·0	20′·0	21′·4	24′·3	28′·5	19′·2

Coincident roughly with the increase in sunspots there was, up to 1926, an increase of magnetic activity, but the years 1927 and 1928 showed some falling away ; the year 1929, despite a fall in the sunspot number, showed some recovery in magnetic activity, and in 1930 this was maintained. The year 1931 shows a further fall in the sunspot number, accompanied by a considerable reduction in magnetic activity.

In the next table the magnetic conditions for individual months of the year 1931 are set out, together with the provisional sunspot numbers.

	Jan.	*Feb.*	*Mar.*	*April*	*May*	*June*	*July*	*Aug.*	*Sept.*	*Oct.*	*Nov.*	*Dec.*
Provisional sunspot number	15·2	41·8	29·1	30·9	24·1	15·3	16·7	13·8	19·2	9·7	17·2	18·3
Mean absolute daily range of D ...	15·5	19·6	18·0	15·4	16·6	17·8	16·0	16·9	23·2	28·3	22·2	20·9
Mean $\Sigma R^2/(100\gamma^2)$ ...	152	476	219	158	276	341	287	306	646	1356	440	325

The values of mean absolute daily range for the months and seasons of the year 1931 are given in Table IV, the ranges of declination in angle having, for convenience of comparison, been converted to units of force of the component perpendicular to the magnetic meridian. If comparison be made with the corresponding table in the Eskdalemuir Section it will be seen that in 1931 the ratios of the annual mean ranges of Lerwick H to Eskdalemuir N, Lerwick D to Eskdalemuir W, and Lerwick V to Eskdalemuir V are respectively 1·2, 1·1 and 2·3. The mean values of these ratios taken over the six years 1926-31 have been 1·4, 1·1 and 1·9 ; the greatest variation from year to year appears in the case of the vertical component ; scarcely any variation appears in the ratio of the W or D component and a slight variation in the case of the H or N component.

TABLE III.

Month.	Magnetic Character Figures. Number of "0" days.	"1" days.	"2" days.	Mean Character Figures. Lerwick.	International.	Mean Value of $\Sigma R^2/100\gamma^2$. All days.	Q days.	"0" days.	"1" days.	"2" days.	D days.
1931.											
January	14	17	0	0·55	0·54	152	7	18	262	—	500
February	12	13	3	0·64	0·62	476	23	31	341	2841	1939
March	9	22	0	0·71	0·59	219	42	53	287	—	750
April	16	13	1	0·50	0·45	158	45	61	225	838	482
May	14	14	3	0·65	0·54	276	64	71	217	1510	1068
June	12	14	4	0·73	0·65	341	73	85	296	1268	984
July	10	20	1	0·71	0·55	287	77	79	286	2386	1053
August	10	20	1	0·71	0·68	306	77	82	351	1637	988
September	5	20	5	1·00	0·82	646	72	70	470	1926	1737
October	4	18	9	1·16	0·95	1356	110	95	368	3894	5599
November	8	19	3	0·83	0·83	440	45	59	438	1473	1266
December	7	22	2	0·84	0·74	325	15	16	318	1482	999
Year, 1931	121	212	32	0·75	0·66	415	54	58	327	2345	1447
Year, 1930	64	235	66	1·01	0·83	1427	83	69	633	5990	5376
Year, 1929	113	214	38	0·80	0·67	1074	62	72	385	6214	4527
Year, 1928	126	211	29	0·74	0·63	581	62	71	305	4996	2068
Year, 1927	137	206	22	0·68	0·63	586	58	66	409	5491	2427
Year, 1926	208	134	23	0·50	0·65	1436	58	93	1014	15614	7226
Year, 1925	207	130	28	0·51	0·56						
Year, 1924	229	114	23	0·44	0·55						

TABLE IV.—ABSOLUTE DAILY RANGE. MEAN MONTHLY VALUES.

Month.	Mean Absolute Daily Range. 1931. H.	D.	V.	Mean Daily Range expressed as Percentage of Yearly Mean. 1931. H.	D.	V.
	γ	γ	γ	%	%	%
January ..	44	66	58	47	81	60
February ..	77	83	94	83	102	97
March	70	76	74	75	94	76
April	69	65	57	74	80	59
May	89	70	72	96	86	74
June	108	75	83	116	92	85
July	96	68	76	103	84	78
August	88	71	97	95	87	100
September ..	119	98	153	128	121	157
October ..	182	120	196	196	148	201
November ..	95	94	119	102	116	122
December ..	77	88	90	83	108	92
Winter	73	83	90	79	102	92
Equinox ..	110	90	120	118	111	123
Summer ..	95	71	82	102	87	84
Year	93	81	97	—	—	—

The frequency distribution of absolute daily ranges recorded in 1931 is shown in Table V. A comparison with the corresponding figures for Eskdalemuir (Table V. on page 176) indicates that ranges in excess of 200γ are again much more frequent at Lerwick than at Eskdalemuir, even in the case of D or W ranges, of which the frequency distributions at the two places usually show less divergence. Apart from this it is notable that the ranges of maximum frequency at Lerwick fall in the intervals 50γ–59γ for H and D, and 20–29γ for V, that is, at much the same points as at Eskdalemuir, though V has many more ranges in excess of 200γ than have H and D.

TABLE V.—FREQUENCY DISTRIBUTION OF ABSOLUTE DAILY RANGE.

Range.	Number of Cases, 1930.			Percentage Distribution.		
γ	H.	D.	V.	H.	D.	V.
0— 9 ..	0	0	0	0·0	0·0	0·0
10— 19 ..	7	13	31	1·9	3·6	8·5
20— 29 ..	10	22	50	2·7	6·0	13·7
30— 39 ..	16	21	34	4·4	5·8	9·3
40— 49 ..	52	32	38	14·2	8·8	10·4
50— 59 ..	57	56	21	15·6	15·3	5·8
60— 69 ..	46	44	19	12·6	12·1	5·2
70— 79 ..	31	39	16	8·5	10·7	4·4
80— 89 ..	27	26	9	7·4	7·1	2·5
90— 99 ..	24	16	14	6·6	4·4	3·8
100—109 ..	21	9	10	5·8	2·5	2·7
110—119 ..	17	15	16	4·7	4·1	4·4
120—129 ..	15	10	8	4·1	2·7	2·2
130—139 ..	7	12	15	1·9	3·3	4·1
140—149 ..	7	2	10	1·9	0·5	2·7
150—159 ..	5	1	7	1·4	0·3	1·9
160—169 ..	6	6	9	1·6	1·6	2·5
170—179 ..	1	2	7	0·3	0·5	1·9
180—189 ..	3	6	6	0·8	1·6	1·7
190—199 ..	3	5	3	0·8	1·4	0·8
200+	10	28	42	2·7	7·7	11·5
Days omitted ..	0	0	0	—	—	—

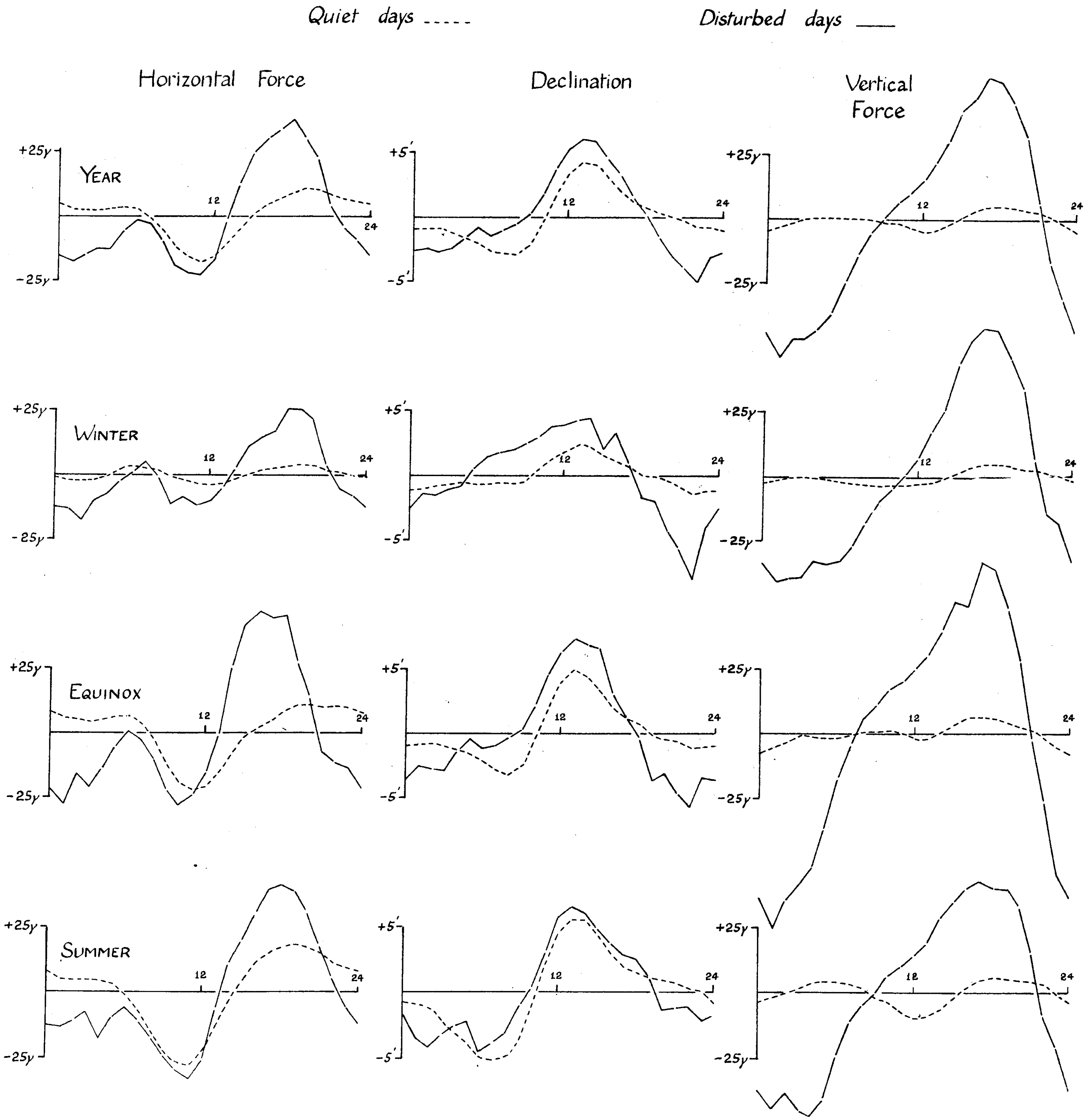
TABLE VI.—PRINCIPAL MAGNETIC DISTURBANCES RECORDED AT LERWICK, 1931.

Where the beginning of a disturbance has been marked by a " sudden commencement," the serial number is followed by an asterisk (*), and the time entered in the second column is that of the sudden commencement, estimated to the nearest minute. In other cases, the exact hour nearest the time at which disturbance may be regarded as having begun is entered in the second column. To the tabulated values of maximum and minimum, the following have to be added :—H, 14000γ; D, 13°; V, 46000γ.

No.	From	To	Horizontal Force.					Declination.					Vertical Force.				
			Max.	Time.	Min.	Time.	Range.	Max.	Time.	Min.	Time.	Range.	Max.	Time.	Min.	Time.	Range
	d. h. m.	d. h.	γ	d. h. m.	γ	d. h. m.	γ	′	d. h. m.	′	d. h. m.	′	γ	d. h. m.	γ	d. h. m.	γ
1	Jan. 14 23	Jan. 18 24	571	16 17 56 and 18 19 7	465	18 9 0	106	78·8	18 9 52	34·4	16 17 48	44·4	739	17 15 36	538	16 23 58	201
2	Jan. 25 15	Jan. 26 22	541	25 18 8	389	26 1 4	152	72·1	26 8 5	43·7	25 22 10	28·4	679	25 19 55	530	26 0 31	149
3	Feb. 13 8	Feb. 16 2	569	13 11 45	417	13 21 54	152	82·3	14 23 0	24·3	13 21 36	58·0	729	13 19 34	389	13 21 45	340
4*	Feb. 24 4 16	Feb. 27 21	871	24 18 35	306	26 0 15	565	106·9	24 18 56	27·9	25 23 56	79·0	876	24 17 48	398	25 23 48	478
5	Mar. 12 18	Mar. 14 10	610	13 19 25	360	12 21 7	250	81·6	13 1 20	27·2	13 19 10	54·4	661	12 20 32	440	13 23 6	221
6*	Mar. 20 16 24	Mar. 22 8	565	21 14 19	446	22 2 15	119	78·1	21 13 38	38·7	21 21 17	39·4	673	21 14 54	501	22 2 37	172
7	Mar. 25 0	Mar. 26 18	551	25 17 55	427	26 1 4	124	74·2	26 13 5	46·2	26 1 40	28·0	664	25 19 53	457	26 1 4	207
8	Apr. 19 11	Apr. 20 18	574	19 17 26	410	19 23 34	164	72·2	19 15 21	37·1	19 23 53	35·1	679	19 18 56	487	20 0 4	192
9	May 7 1	May 8 21	599	7 20 14	407	7 3 49	192	79·0	7 3 52	42·3	7 6 26	36·7	673	7 15 11	362	7 4 20	311
10	May 13 13	May 17 6	626	13 20 47	256	15 1 39	370	70·7	14 21 24	27·2	13 20 46	43·5	683	16 15 10	395	15 3 33	288
11*	June 1 15 33	June 3 6	638	2 13 34	345	1 22 47	293	74·1	2 12 4	41·2	1 22 53	32·9	714	2 17 54	467	1 23 5	247
12	June 8 12	June 9 8	612	8 19 26	282	9 3 45	330	83·1	9 4 42	39·7	9 0 43	43·4	666	8 20 0	357	9 2 34	309
13*	June 26 15 0	June 28 24	640	26 17 54	434	28 1 18	206	72·9	26 16 16	40·1	28 23 17	32·8	662	27 16 16	456	26 23 9	206
14*	July 23 3 22	July 24 16	755	23 16 40	378	23 23 46	377	70·6	23 12 25	47·1	24 2 20	23·5	776	23 17 7	439	24 0 17	337
15	July 25 12	July 31 2	596	28 13 46	389	26 18 45	207	72·8	28 13 11	45·7	26 1 47	27·1	733	25 14 5	486	26 0 3	247
16	Aug. 7 8	Aug. 11 20	596	9 20 26	378	9 0 44	218	75·9	9 0 22	39·6	9 20 23	36·3	780	9 15 30	429	8 1 12	351
17	Aug. 19 11	Aug. 21 23	577	20 19 24	410	20 7 11	167	67·9	20 7 7	40·7	20 19 10	27·2	686	20 15 28	547	21 0 32	139
18	Aug. 24 15	Aug. 25 23	567	25 18 33	360	25 4 6	207	69·0	25 14 6	44·1	25 2 52	24·9	706	25 15 16	476	25 4 26	230
19	Sep. 3 7	Sep. 7 20	601	6 15 54	302	4 2 44	299	71·6	7 2 54	35·0	4 2 38	36·6	732	6 16 6	371	4 3 9	361
20	Sep. 14 6	Sep. 17 24	621	15 18 6	311	17 1 26	310	76·2	17 4 50	33·4	16 2 7	42·8	811	15 18 5	267	16 1 26	544
21	Sep. 20 14	Sep. 22 24	575	20 19 15	197	21 0 15	378	76·2	21 0 10	33·6	21 1 55	42·6	720	20 19 0	426	21 1 19	294
22	Sep. 30 22	Oct. 6 5	655	2 15 30	257	2 23 15	398	78·7	2 21 43	27·7	5 17 20	51·0	805	2 15 39	361	2 23 5	444
23*	Oct. 11 22 36	Oct. 13 17	715	12 17 36	99	12 22 22	616	105·3	12 23 0	24·7	13 1 16	80·6	805	12 17 6	195	12 22 58	610
24	Oct. 26 19	Oct. 31 24	1001	29 15 51	−159	29 20 53	1160	89·0	29 14 45	19·7	29 20 47	69·3	864	30 16 22	149	29 20 56	715
25	Nov. 5 3	Nov. 10 24	676	5 17 0	357	8 20 46	319	66·8	6 12 6	31·5	6 17 8	35·3	834	5 16 58	457	8 21 7	377
26	Nov. 14 7	Nov. 19 22	560	18 14 55	329	16 21 44	231	82·9	15 22 38	32·4	16 21 50	50·5	813	16 16 57	459	16 21 36	354
27*	Nov. 26 11 7	Nov. 27 24	609	26 15 17	360	27 3 45	249	73·7	26 16 5	35·8	26 22 9	37·9	878	26 15 15	539	27 3 45	339
28	Dec. 1 12	Dec. 6 6	585	2 20 7	403	5 0 33	182	66·0	3 0 10	24·7	2 21 6	41·3	795	4 15 23	517	3 0 23	278
29*	Dec. 10 1 0	Dec. 13 4	837	11 19 37	431	12 22 10	406	71·9	11 19 38	26·8	11 20 5	45·1	833	11 19 31	574	12 22 20	259
30	Dec. 28 2	Dec. 31 2	554	28 23 35	431	30 1 12	123	77·1	30 1 43	30·5	30 0 53	46·6	801	28 18 30	566	30 2 0	235

Diurnal Variation of the Magnetic Elements

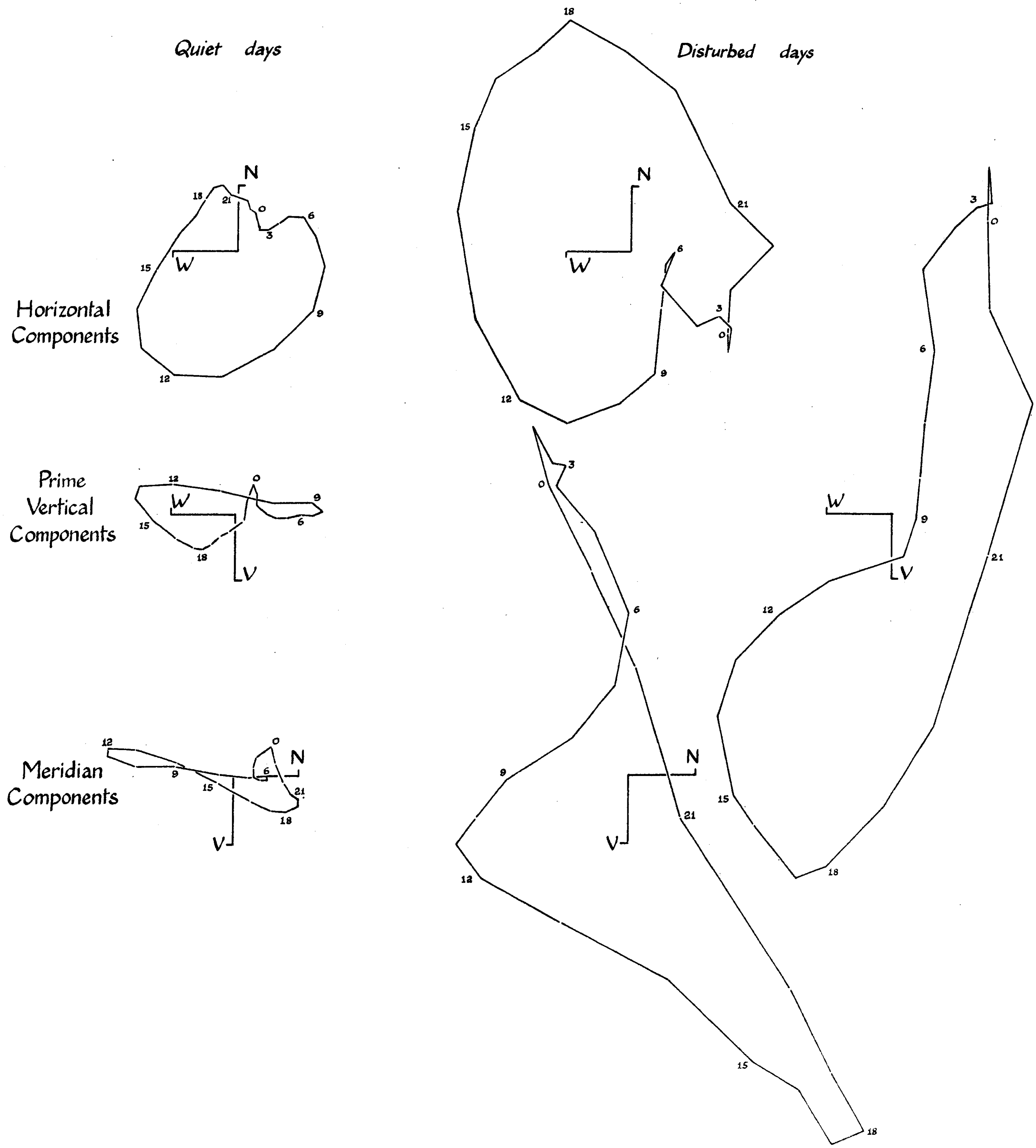
Lerwick 1931



(117) Ps 15110/2511A, 325, 1/33, Cp321, G&R Ltd

Vector Diagrams illustrating Diurnal Variation of Magnetic Force

Lerwick 1931



Diurnal Inequalities.—The mean diurnal inequalities for all days, international quiet and disturbed days, for the months, seasons and the year, are given in Tables 53–61, and the corresponding inequality ranges in Table 62. The inequalities of H, D and V for international quiet and disturbed days are shown graphically in Plate I, whilst in Plate II are given vector diagrams illustrating the diurnal variation of magnetic force in the horizontal, the prime vertical and the meridian planes respectively.

The ranges of the mean diurnal inequalities of all days, with the exception of D in summer, are appreciably lower in each season and for the year as a whole than in recent years. The same is true of the inequalities on quiet days.

The ranges of the mean disturbed day inequalities in each element and in every season and for the year as a whole show a considerable reduction on the ranges of the previous year. This applies in almost every month; only October in 1931 is characterized by considerable ranges, February and September by moderate ranges. A year ago it was remarked that in the last four months of 1929 the ranges of the disturbed day inequalities in V became greater than those in H. In seven months of the year 1930, and in the mean for the year as a whole the same condition existed; in every month of 1931 this condition exists.

A comparison of the records of Eskdalemuir and Lerwick shows that the declination inequalities at the two places for all, quiet and disturbed days are very similar in general appearance, although minor irregularities on the one set of values are not always reproduced on the other, or, if so, only with diminished amplitude. Differences are more obvious on the horizontal force curves even on quiet days; and become conspicuous in the disturbed day inequalities in H in some months. In the case of vertical force the present year is the sixth year of observations to be published. In some months the quiet day inequalities are very different from those at Eskdalemuir, and it will be seen from the table below that the range of the inequality varies from just over one half of the Eskdalemuir range in March to over twice the Eskdalemuir range in January, February, October and November.

Ratio of the Range of the Inequality at Lerwick to that at Eskdalemuir. (1931).

Type of Day.	*Element.*		*Jan.*	*Feb.*	*Mar.*	*April*	*May*	*June*	*July*	*Aug.*	*Sept.*	*Oct.*	*Nov.*	*Dec.*
q	D	...	·94	1·09	·99	·97	1·07	·96	1·09	·97	·98	·90	1·01	1·34
d	D	...	1·21	1·26	1·17	1·06	1·08	1·09	1·16	1·01	1·10	·85	1·12	1·06
q	H	...	·81	·93	1·06	1·03	1·09	1·12	1·15	1·11	·96	·86	·90	·98
d	H	...	1·36	6·42	1·20	1·23	1·08	1·35	1·55	1·20	1·31	2·96	1·10	1·49
q	V	...	2·95	2·24	·62	·68	·59	·88	·75	·88	1·43	2·50	2·37	1·15
d	V	...	1·88	1·98	2·71	2·12	2·02	1·95	2·44	2·39	2·11	1·82	2·21	2·55

Magnetic Disturbances.—Particulars of the principal magnetic disturbances recorded at Lerwick during the year are given in Table VI. In the Eskdalemuir Section will be found a similar list which deals with the same disturbances as recorded at that Observatory. Within the limits of accuracy of measurement and registration, "sudden commencements" appear to occur simultaneously at the two Observatories.

Remarks on the Autographic Records, 1931.

January.—(Average Character Figure 0·55). A very quiet month without any really noteworthy disturbance. Fourteen days were classed as "0" days.

There was a bay in D about 24′ deep centred at 2d 22h 30m, accompanied by slight disturbance in V and H. On 9d and 10d occurred some small movements, bays in D centred at 9d 23h 5m and 9d 23h 57m being the largest, with depths respectively 16′ and 20′. There were also two small humps in H, each about 48γ in height, centred at 9d 23h 6m and 10d 19h 37m.

The most disturbed records of the month were those of 16d–17d. The main features of the H record were three small humps with maxima at 16d 17h 55m, 22h 4m and 23h 26m, respectively 60γ, 50γ and 66γ in height, and accompanied by bays in D of which the first and most considerable was 31′ in depth. The V movements were small apart from a hump of 57γ at 16d 17h 38m.

At 25d 18h 20m H began a slow fall but returned quickly to normal after reaching a minimum at 26d 1h 4m. The total fall was 120γ. D was also low during this evening, while V followed the characteristic disturbed day form.

Aurora was seen from one or more places in Scotland on January 11–13, 16–20, 24–26. On no occasion, unless on 25th, was any structure observed, but at times on 16d the luminous surface was seen to be pulsating.

February.—(Average Character Figure 0·68). Also a very quiet month.

There were periods of small disturbance on the nights of 1d–2d and 2d–3d. On the 4th a small peak in H, 36γ in height, with a maximum at 21h 15m was accompanied by a bay in D 17′ deep and one in V 20γ deep; there was a somewhat smaller bay in D on the following evening. These were the only appreciable movements until 13d. Following small but rapid changes, the main movement took the form of a deep bay in all elements with minima a little before 22h. The V bay was 264γ in depth and showed at one point a fall of 108γ in 8 minutes. The D bay was about 42′ deep, that in H about 90γ. Two smaller bays in H followed, with minima at 14d 1h 56m and 3h 56m; and there were similar bays in V, though the minima were somewhat later—at 2h 43m and 4h 13m.

An aurora was observed on this evening. At first only a glow, it had developed into an arch by 19h 0m and between 20h 45m and 21h 20m a number of rays were observed. Thereafter the whole faded.

After a long quiet interval disturbance broke out again in the early hours of 24d; in the afternoon there were considerable rises in all elements, 380γ in H, 240γ in V, 42′ in D; all returned to their normal values by midnight.

The aurora of this evening, though largely hidden by cloud, was observed at intervals between 19h and 23h, a bright arc, usually with ray structure and occasionally detached rays.

Apart from two small humps in H and V during the afternoon, accompanied by small bays in D, 25d was surprisingly quiet until just before midnight, when all elements showed considerable bays and rapid movements. The H and V bays were each about 120γ in depth, the D bay 30′.

26d and 27d both showed a small hump of H in the evening accompanied by small bays in other elements. Otherwise these days were not greatly disturbed and the month ended quietly.

Aurora was observed from one or more places in Scotland on February 7, 11, 13–15, 24, 25.

March.—(Average Character Figure 0·71). Again there were no really considerable disturbances, but small disturbances were quite frequent.

On 2d there were many changes, often rapid but never large. Early the next morning there was a bay in H 55γ in depth, with a minimum at 3d 4h 5m, which was accompanied by a hump in D 16′ in height. The V bay corresponding with these,

112γ in depth, was a little later (minimum at 4h 55m). After a very calm interval slightly disturbed conditions returned on 8d, 9d and 10d. The largest movement, a fall of 96γ in H, between 10d 16h 3m and 10d 16h 33m, was accompanied by a small rise in V.

On 12d between 20h 30m and 21h 30m all elements fell considerably; H 204γ, V 160γ, D 30′. They soon recovered, but a second bay in V and H followed, centred at 13d 1h 35m, which was accompanied by a 20′ hump in D. Hereafter all records settled down, V taking longest to return to normal. On the same evening an aurora, beginning at 19h 45m as a faint glow, developed into an arc with ray structure at 21h 5m. This divided itself into three parallel bands lying E and W, the most southerly lying well to the south of the zenith. Meanwhile rays from the N, W and E horizons converged on a point near the zenith. This structure persisted with slight changes until 21h 50m, after which it faded rapidly.

Movements during 13d were small until the evening, but a bay in D 36′ deep, centred at 19h 10m, was accompanied by an 80γ hump in H. Fairly rapid movements of moderate size were frequent in the records of H and D until 14d 2h, the bay in H with a minimum at 13d 22h 33m being conspicuous. The V record, however, shows only very slow changes, though it has the usual night bay 170γ deep. A fine arc with ray structure was observed from a steamer 20–30 miles south of Lerwick between 13d 20h and 13d 21h 30m.

A beautiful sudden commencement is to be seen on the H record at 20d 16h 24m, movements of -12γ, $+38\gamma$, -9γ taking place in about five minutes. D and V show hardly perceptible changes. In the small disturbance which followed the most conspicuous features were a very small night bay in H and V on the evening of 20d, a rise of 85γ in H on 21d between 13h 6m and 14h 19m, a D bay 28′ in depth centred at 21d 21h 19m, slightly represented in H also, and a 70γ bay in H centred at 22d 2h 15m accompanied by a small hump in D. The V records showed the characteristic disturbed day shape, but changes were slow. After a day of small movements there was a well marked bay in all elements in the early hours of 26d. It was deepest in V (156γ) where the minimum was at 1h 4m. In H the depth was 100γ, in D 16′.

Records did not become quite quiet until 30d.

Aurora was observed from one or more places in Scotland on March 11–14, 17, 23, 25.

April.—(Average Character Figure 0·50). Quiet conditions were maintained and only 19d was classed as a "2" day.

1d opened quietly, but there were small disturbances during the evening and slight disturbances continued to be frequent in the evenings of the first five days of the month.

There was a second period of small disturbance between 9d and 11d. H records show, besides many smaller changes, bays centred at 10d 3h 10m and 10d 22h 33m, each about 60γ deep. Each of these was accompanied by a bay in V, the former 100γ in depth, but other changes in V were small and all were very slow. A 16′ bay centred at 10d 4h 41m and another 10′ deep at 11d 20h 0m were the largest movements in D.

The early morning of 18d shows a shallow V bay of the characteristic disturbed day type. It was accompanied by a 24γ hump in H—an unusual feature. Thereafter, until noon on 19d the records were fairly quiet. The afternoon and night of 19d follow much the usual disturbed day pattern, but movements were not very large. V shows a fairly steep descent of 80γ between 22h 53m and 23h 15m, D and H bays respectively 22′ and 75γ deep just before midnight. Disturbance continued on 20d and there was a sharp bay in H 50γ in depth centred at 20d 10h 38m. The remainder of the month was quiet.

Aurora was observed from one or more places in Scotland on April 3–5, 8, 9, 16, 19, 30.

May.—(Average Character Figure 0·65). Quiet conditions continued, but three days—7, 14 and 15d—were marked as "2" days.

The first four days were quiet, but 5d and 6d show some small movements, chiefly in H. The night of 6d–7d was remarkably quiet until about 7d 2h; then came deep bays in V (275γ) and H (144γ), the latter a double one with minima at 3h 49m and 5h 4m. The H movements were closely followed by those in D which were, however, opposite in direction and not considerable—maxumum height of hump 21′. The remainder of the morning showed continual waves of small period and amplitude in all records. At 7d 20h 12m there were swift changes of +60γ in H, −40γ in V, −12′ in D.

All traces on 11d were high in the evening and low in the early morning. The following night was disturbed only by one hump (36γ) in H, accompanied by an 8′ bay in D and a fall of 25γ in V. There were similar but larger phenomena the next night, the H peak 91γ, the D bay 33′, the V fall 112γ. The largest departure on each record was at about 13d 20h 50m. Movements on 14d were not large until the great fall in V (243γ) between 21h and 21h 40m. There were two bays in H, each about 90γ deep, centred at 21h 33m and 22h 32m, and a much larger one later with minimum of 14256γ at 15d 1h 39m. D movements were not large apart from two humps about 24′ high centred at 21h 24m and 22 h 18m. All records continued somewhat disturbed throughout 15d and 16d, though the violence of the disturbance decreased. The night bays in H and V, with an accompanying D hump, reappeared at 18d 2h, but all were small, 50γ in H, 65γ in V, 10′ in D. 19d and 20d were particularly calm.

Disturbance on 26d, apart from small pulsations during the morning, was confined to the afternoon and showed only in H, where there is a slow rise of 100γ followed by a still slower fall.

There was a rise of 65γ in H between 29d 11h and 29d 14h, followed by a bay 60γ deep centred at 15h 22m, but D and V were almost calm throughout this period, and the last day of the month was quite quiet.

No aurora was noted during the month.

June.—(Average Character Figure 0·73). Disturbance was somewhat more frequent than of late, and four days were given character figure "2," viz., 1, 2, 9 and 26d.

The first considerable change was a sharp rise of 40γ in H and 50γ in V in a sudden commencement at 1d 15h 33m; both elements remained high and somewhat disturbed throughout the evening. All elements show bays with minima about 22h 50m—in H 240γ deep, in V 187γ, in D 20′.

Throughout 2d there was almost continuous movement, but only in H was it of great extent. Here the afternoon record shows a series of four humps, the last and largest, about 130γ in height, centred at 17h 30m. The night was less disturbed than the preceding one, the main bay in H being scarcely 100γ in depth.

After a quiet interval disturbance was renewed on 8d. H rose irregularly by 100γ between noon and 20h, and thereafter fell slowly. D and V show smaller but similar movements and, in addition, a bay in D at 20h 18m, 25′ deep, accompanied by a small peak in V may be noted. There was a good double night bay in H with minima 14296γ and 14282γ at 2h 16m and 3h 45m. At the same time there was a V bay of fair depth, but D was high during this period, which was one of frequent and rapid change in all elements. Disturbance, though diminishing, was noticeable until 12d.

A very quiet period followed, but at 21d 14h 34m there was a small sudden commencement. In D and V this was merely a slight quiver in the trace, but in H the changes were -6γ, $+18\gamma$; the subsequent disturbance was not large, and a 70γ hump in H at 21d 19h was the most considerable feature.

A more striking sudden commencement was that at 26d 15h 0m. Movements were: H$+60\gamma$, D$+$ 4′, V -16γ. From here until 29d 0h the records show constant movement. There was a single night bay in H with minimum of 14455γ at 26d 23h 5m and two on the following night, minima 14434γ and 14455γ at 1h 18m and 3h 57m respectively. On both nights there were well marked but not large bays in V and D, which, on the night of 27d–28d, accompanied the former of the H bays. The main feature of the afternoons of 26d and 27d was in each case a sharp peak in H, that at 26d 17h 53m being 110γ in height, that at 27d 16h 43m 90γ. Each was preceded by two somewhat smaller humps. Movements on 29d and 30d were quite small.

No aurora was noted during the month.

July.—(Average Character Figure 0·71). A month of frequent but usually quite small disturbance.

The first three weeks show very few quiet records but hardly any interesting movements. There was, however, a well marked night bay in H (86γ in depth) and in V (80γ in depth) at 2d 22h 0m. The accompanying changes in D formed a hump followed by a bay, with a fall from crest to trough of 25′. At 16d 2h 10m, too, there was a hump in D of 15′ accompanied by a V bay 80γ deep and a small H bay.

The largest disturbance of the month opened with a sudden commencement at 23d 3h 22m. H rose 17γ, D 4′, while V fell 8γ. Both H and V have high and fairly sharp peaks on the afternoon of 23d and deep bays with minima about midnight. (Ranges in this period H 377γ, V 300γ.) D movements were small, the largest a bay at 19h 52m, 17′ deep, which is accompanied by a hump in V 40γ in height. Of D movements corresponding with the two great displacements of H and V there is scarcely a sign.

Disturbance reappeared on the afternoon of 25d in the form of rapid but inconsiderable movements; V and H both show night bays, in V 140γ, in H 160γ deep, with minima just after midnight.

The night bay was again evident on the evening of 28d; the preceding afternoon showed considerable rapid movement, in H only, with a peak 96γ high at 13h 46m as the largest feature.

The night bay, diminished to 60γ in H and 50γ in V, reappeared on the night of 29d–30d and was on this occasion accompanied by an appreciable D bay 10′ deep. The last day of the month was quiet.

Aurora was reported on the evening of July 3.

August.—(Average Character Figure 0·71). Generally similar in character to July, it had only one "2" day—the 9th.

The opening week showed a continuous restlessness, but the first decided movement was the bay in V (140γ) and H (105γ) centred at about 8d 0h 30m; the accompanying D hump was only 7′ in height. All records show fairly frequent movements during 8d and on the night following there were two good bays in both H and V. Those in H, with minima at 0h 44m and 2h 38m were each about 150γ deep while the accompanying V bays were about 170γ in depth. Between the H bays there was a return almost to normal, but the ridge between the V bays was small—both usual features. The D record shows two humps accompanying these bays, respectively 21′ and 12′ in height. A bay in D at 9d 15h 36m, 20′ deep, was accompanied by 80γ humps in the other records. A second D bay at 20h 23m was again accompanied by a hump of 80γ in H, but V fell suddenly by about 40γ and only recovered very slowly. 10d was fairly quiet on all records but during the early morning of 11d there were a number of very slow wavelike changes in all elements.

Apart from a small disturbance on 16d–17d with a small but well defined night bay in both V and H at about 16d 23h, nothing worthy of mention occurred until the morning of 20d. At 20d 7h 11m there was a bay in H 120γ deep accompanied by a small hump in D. Records were lively, without any very pronounced features, throughout 20d and 21d. Then, at 21d 23h there was a sharp rise of 42γ in H and 8′ in D, and all movement ceased abruptly. Disturbance recommenced on August 24th. There was a small night bay in both H and V at about 24d 23h and a larger one (depth 150γ in H, 160γ in V) centred about 25d 4h 20m. The D record was excited but with only a small range and no very pronounced relationship to the other records. This storm gradually subsided during 25d.

There was a deep bay (120γ) in V centred at 26d 22h 36m, at a time of small irregular excitement in H and D. On the night of 27d–28d, after a tolerably calm day, were shown two clearly marked night bays centred (in H) at 27d 21h 50m and 28d 1h 15m. These were respectively 90γ and 75γ deep. The corresponding bays in V were 90γ and 160γ deep, and those in D 14′ and 12′ deep. The remainder of the month was increasingly quiet.

Aurora was observed from one or more places in Scotland on the evenings of August 7, 23, 24.

September.—(Average Character Figure 1·00). This was the most disturbed month of the year so far. Five days were awarded character figure "2."

There were two small bays in both H and V during the early morning of 1d, with corresponding humps in D, but the remainder of the day, and all 2d, were quiet.

The records of 3d showed a good deal of minor disturbance, and there were deep bays in all elements early on 4d. The minimum of the H bay (230γ deep) was reached at 2h 44m, but the D and V bays were at this time interrupted by sudden rises, 60γ in V, 22′ in D. An aurora was observed between 3d 21h 50m and 3d 23h 30m. Its main feature was a faint homogeneous arc, though three short rays were seen at 22h 35m.

The afternoon of 4d, among lesser movements, showed a 90γ hump in H, centred at 17h 34m and accompanied by a D bay 20′ deep. The bays in H and V on the morning of 5d were small, and with them occurred a slight hump in D. Similar features appeared on the following night.

The main feature of a somewhat excited day was the sharp rise in H of 81γ at 6d 15h 20m, followed at 15h 40m by a rise of 70γ in V. V fell suddenly by 104γ at 21h 40m during a period of considerable disturbance on the other records. The main night bays were not very deep, 130γ in V, 145γ in H (minimum of H at 3h 3m, of V 3h 24m). The simultaneous feature in D was a hump of 20′. Clouds breaking for a few minutes at 6d 22h 20m showed a faint auroral arc, almost overhead, running NE to SW. Three short rays branched away towards the North from the zenith of the arc. The only disturbance of 7d was a sharp peak in H, 58γ high, at 18h 34m, accompanied by a 20′ bay in D. Movements on 8d, 9d and 10d were numerous but small apart from the 20′ bay in D at 8d 21h 22m.

After a quiet interval disturbance began again on 14d—a day, however, without very large movements. On 15d, the peak in all elements at about 18h 0m, 85γ high in V where it was largest, was the main feature of a generally excited day. On that night a hump in D 21′ in height accompanied the main bays in V (320γ deep) and H (190γ deep) which had minima at 1h 26m and 1h 10m respectively. Similar bays in V and H occurred on the following night, centred near midnight, but this time they were accompanied by a bay in D 20′ deep. A second, much shallower bay followed in all elements, centred near 17d 4h.

A deep bay appeared on the morning of 21d, 320γ deep in H (minimum at 0h 15m) 180γ deep in V (minimum 1h 19m). In D there was a hump of 26′. The aurora of the evening of 20d began at 19h 55m as a glow, which developed into an arc at 20h 15m. This arc broke up at 24h 0m, reformed as a double arc at 0h 35m, broke up again at 1h 10m, reformed at 1h 24m and finally vanished at 1h 42m. Throughout this period luminous patches and rays were observed, which varied constantly in form and position.

The remainder of 21d, 22d and 23d showed only slight disturbance, with small bays at night in H and V. Noticeable effects appeared up to 27d, but then followed a quiet interval.

Fresh disturbance is regarded as starting on 30d about 22h. The V bay of the night of September 30th was 210γ deep with a minimum at 23h 22m. Corresponding with this were two H bays of almost equal depth (150γ) with minima at 23h 6m and 1h 50m. Both these were accompanied by humps in D respectively 10′ and 18′ in height.

Aurora was observed from one or more places in Scotland on the evenings of September 3–6, 13, 16, 20, 21.

October.—(Average Character Figure 1·13). This month was even more disturbed than September and contained nine " 2 " days.

Movements on 1d, apart from those already described, were not very large though extremely frequent. More vigorous disturbance set in on the afternoon of 2d. H and V were both high during the evening and fell to minima about 23h. In H there was a peak 145γ in height at 15h 30m and a whole series of bays, of various depths, during the night. The second and deepest (225γ deep) had a minimum at 23h 15m. All these features had their counterparts in the V record, where, however, they were small compared with the great main changes. The D record, though very lively, shows no great connection with the other records. Its main features were a bay some 40′ deep centred at 15h 55m and a fall of 47′ between 21h 43m and 22h 11m.

An aurora in the form of a homogeneous arc appeared on this evening between 19h 40m and 21h and once (20h 50m) some ray pencils were seen.

3d was throughout very quiet but both H and V show small bays between 1h and 2h on 4d, accompanied by a hump in D. On the night of 4d–5d, after a quiet day, there were no fewer than five separate bays in H, all of fair depth. The second with a minimum at 23h 59m was the deepest (158γ deep). The last of these bays was centred at 5d 8h 48m. V shows only the first three of these bays. It rose steadily after 4h and has a pronounced maximum accompanying the last H bay. D showed no evident relationship to the other records. Its main feature was the 23′ hump centred at 0h 12m. The aurora of this night was largely hidden by clouds. Through a break between 19h 10m and 19h 28m brilliant pulsating luminous surfaces were seen, occasionally with a pink tinge. Some ray forms were also observed. Later breaks, between 20h 30m and 21h showed only a bright glow, but this condensed at 21h 15m to a narrow homogeneous arc occasionally accompanied by rays. This arc was still visible at 23h when observations ceased.

Moderate disturbance continued during 5d and an aurora was again observed in the evening. Usually it was only a glow, though sometimes an arc, and frequently ray pencils, attended it. It was first seen at 19h 20m and was still visible at 23h although all activity had ceased. Hereafter came an interval of quiet. A sudden commencement at 11d 22h 36m was not followed by appreciable disturbance until 12d 16h 40m, when H commenced a rise to a maximum of 14715γ at 17h 36m. Thereafter it fell and was generally low between 22h and 13d 3h. The feature of this record is its wildness during this low period, in which there are five separate minima separated by rises ranging from 160γ to 360γ. The changes were generally swift, one rise of 236γ, occupying less than three minutes.

In D there was a bay of only 20′ accompanying the evening peak of H. But the great feature of the record is the huge peak centred at 23h 0m. The rise to this was 80′ accomplished in 27 minutes. In V, though it had a range in the evening of 610γ, movements were generally smoother.

The sky on this evening was unfortunately almost continuously overcast. There was evidently, from the light which penetrated the clouds, a most brilliant aurora but details were observed only once or twice—an arc of elevation about 25° at 19h 5m and again at 19h 20m, and a corona, with its centre near the zenith, at 22h 20m. The clouds were usually thin enough for it to be perceived that at some time during the evening almost every part of the sky was covered by aurora, except for about one third lying to the extreme south. This storm decreased very swiftly.

There followed a period of fairly quiet conditions which lasted until the evening of 26d, after which the rest of the month was somewhat disturbed. On the evening of 17d there was a very active aurora. A faint arc first appeared at 19h 30m. At 20h 15m this broke up into a band with ray structure, of complex form, but the arc soon reappeared. For a time (20h 48m to 20h 52m) it was attended by a second arc of greater elevation, but at 20h 58m it once more developed into a band with ray structure which persisted, with certain changes, until 21h 33m. During this period it was sometimes attended by detached rays and sometimes by homogeneous arcs both above and below it. The upper one of these indeed survived the break-up of the main band at 21h 33m and remained for about ten minutes accompanied by numerous small luminous patches. At 22h only a faint glow remained. This aurora was accompanied by only very small disturbance on either H or V, though D showed a bay 27′ in depth centred at 17d 20h 44m. Disturbance in H on 27d was confined almost entirely to the 186γ hump centred at 18h 22m. A bay in D 21′ deep accompanied this, and a hump in V, 160γ in height.

The largest feature of 28d, on both H and V, was a bay of short duration centred at about 20h 15m. In H the depth was 140γ, in V 100γ. A peak of 17′ occurred in D at the same time.

29d brought the greatest movements of the year. A rapid rise in H and V began just before noon and both showed wild and vigorous changes throughout the evening. H was high throughout this period, and V shows the afternoon reversal characteristic of great storms at Lerwick, in the shape of a deep bay (430γ deep) centred at 15h 46m. Minima on both H and V occurred at 20h 55m in deep but transient bays. That in H (550γ deep) lasted an hour, that in V, 360γ deep, only 25 minutes. The range of H on this evening was 1160γ, of V 712γ. D movements during the day were swift and frequent, but there were no large departures from the mean. Declination was generally low and fairly quiet during the night, but a bay 35′ deep centred at 20h 47m was followed instantly by a very high peak. The rise between these was 67′ accomplished in 15 minutes. The only aurora observed on this evening consisted of a few faint rays seen at dusk (18h 5m—18h 10m); later phenomena may have been hidden by a bright moon.

The afternoon of 30d was again highly disturbed. H showed a number of considerable though transient upward swings and was generally high, but the most remarkable phenomenon of this day occurred a few minutes before 18h. The movements were: H +214γ, −316γ; D −30′, +57′; V +90γ, −250γ. In each case the whole occupied about ten minutes and was followed by an immediate decrease in the intensity of the storm. The night and the following day show no noteworthy features.

Aurora was observed from one or more places in Scotland on the evenings of October 2–5, 7, 11–14, 23, 29, 30.

November.—(Average Character Figure 0·90). A much quieter month than the preceding, but moderate disturbance was quite frequent.

The first four days of the month were all a little disturbed. The most prominent features were a hump 62γ in height in H, centred at 1d 22h 46m; a bay in V, 90γ deep, at 4d 1h 6m and a number of slow waves in D during the night of 3d–4d, when the total range was about 30′. The morning of 5d showed a good deal of rapid oscillation in H of a few minutes period and small amplitude. The main event of the day was a very sharp peak in H, 157γ in height, centred at 17h 0m. Simultaneously there was a peak 90γ in height on the V record, and V remained high for some three hours thereafter. This evening was a period of some excitement in D also. The range was 27′·4, but the record showed no obvious relationship to the other two. Rather shallow bays occurred in H and V at about 6d 2h, and again in V at 6d 5h 30m.

Small disturbances continued during 6d and 7d. D showed a 27′ bay at 6d 17h 8m and H a hump of 62γ at 7d 21h 54m. 8d was remarkable for the rapidity and frequency of changes in H and D, but the only extensive movement in H was the bay, 146γ deep, at 8d 20h 46m. With this came a 21′ hump in D and a bay in V 175γ in depth, but V movements, apart from one or two sharp swings between 20h 30m and 21h, were slow. H and V remained low until 9d 4h, and then rapidly recovered. During 9d and 10d conditions became calmer, though the 22′ bay in D at 10d 17h 26m may be noted.

In another disturbed period commencing on 14d the first feature worthy of remark was a very sharp bay in H, 146γ deep, centred at 15d 22h 46m. The accompanying V bay was 130γ deep, but the descent much more gradual. In D there was a hump at this time of 30′, and many smaller disturbances during the afternoon.

Similar bays in H and V appeared on the night of 16d. In H the depth was about the same, but the V bay was much deeper (216γ). D was excited throughout the evening, but was without outstanding features and had a total range of only about 30′.

After a quiet interval there was a further outbreak following a sudden commencement at 26d 11h 9m; the main feature was a hump in H, 120γ high, centred at 26d 15h 17m, accompanied by one in V 180γ high. At 27d 3h 45m there was a fairly sharp bay in H about 90γ deep accompanied by the minimum for the night of the V curve, which had been falling steadily since 26d 21h. D movements were not considerable in this storm. The end of the month was generally quiet, though on the evenings of both 27d and 29d there were humps in H, respectively about 62γ and 45γ high.

Aurora was observed from one or more places in Scotland on the evenings of November 3, 5, 6, 13, 15, 16, 25, 29, 30.

December.—(Average Character Figure 0·90). As in the previous month there were no large disturbances, four days only just reaching class "2."

Mild disturbance began about midday on 1d and developed slowly during this and the next day. On the evening of 2d H showed a pair of humps separated by a small bay (range in this period 141γ). D on this evening wandered continually, within a range of 41′·3, but showed no sudden changes, while V had a bay of 90γ with the H humps above mentioned and a second and larger one at 3d 0h 23m which was not accompanied by any appreciable H changes. The morning of 3d showed continuous vibrations in H and D of a few minutes period and small amplitude. In the evening the double hump in H again appeared, though movements were a little smaller than on the preceding night. After a fairly quiet day, H, at 4d 21h 20m, began a rapid fall of 46γ (accompanied by a small V bay) followed by a still more rapid climb of 108γ. A slow fall of 159γ to a minimum at 5d 0h 23m followed, and then a swift recovery. This second bay was accompanied by one in V 90γ deep, while D, between 5d 0h and 2h showed a double wave with a range of 14′. Disturbance, small but rapid, continued during 5d and 6d with the late evening of 5d as the most excited part.

On the evening of 11d, after a fairly quiet day, there occurred a peak in H 320γ in height with a maximum at 19h 37m. The whole movement occupied barely half an hour. The V movements were a rise of 128γ (maximum at 19h 31m) followed by a fall of 180γ to a minimum at 19h 40m; and then a second peak some 130γ in height. In D at this time there were some rapid though quite small swings, but at 20h 57m a bay 33′ deep began. The rest of the night was quiet, though V showed a quite deep night bay. The remains of this great peak in H are discernible at about the same hour on 12d, and at 22h 10m there was a small bay, 75γ deep. V movements were slow, though the range was considerable (149γ) with the usual afternoon maximum and a minimum accompanying that in H. In D there was a 20′ bay at 15h 53m and the record was low and somewhat agitated during the early part of the night of 12 to 13d.

After an interval, not entirely quiet, there was a sharp peak in H at 15d 21h 5m, 97γ high. It was accompanied by small bays in the other two records, respectively 20′ and 36γ deep. All three features appeared somewhat diminished on the following night and smaller still on 17d. The morning of 17d shows two considerable bays in V with minima at 1h 27m and 5h 52m, the former accompanied by a small one in H. A quiet interval followed, broken on the evening of 25d by small peaks in H and V, and, with them, a D bay 33′ deep.

Disturbance began again on 28d and was most evident in V, where there was an evening hump 120γ high followed by a deep night bay. This latter was accompanied, curiously enough, by a peak in H, 74γ high (maximum at 23h 35m). An even stranger feature was the slow but regular wave in all elements between 0h and 3h on 30d. Ranges in this period were: H 97γ, D 46′, V 110γ. All kept well together, but the first change in H was a rise, in D and V a fall. Later, about 5h, there was a small bay in V accompanied by humps in the other elements. The remaining hours of the month, though not quite quiet, call for no comment.

Aurora was observed from one or more places in Scotland on the evenings of December 1, 4, 5, 11–14, 17, 22, 23, 28–30; only that of 28d was at all active.

Mean values for periods of sixty minutes, centred at exact hours, Greenwich Mean Time.

1. Lerwick. **1931.**

Day.	January. Factor 1·29.				February. Factor 1·30.				March. Factor 1·33.			
	3 h.	9 h.	15 h.	21 h.	3 h.	9 h.	15 h.	21 h.	3 h.	9 h.	15 h.	21 h.
	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.
1	<−548	116	<−337	<−1073	155	−209	−317	>538	300	136	161	>667
2	83	92	128	176	111	90	152	108	76	148	170	45
3	107	107	>1067	<−179	90	120	114	147	45	z	303	194
4	86	30	107	119	93	z	−299	266	91	139	255	312
5	75	301	158	149	167	123	99	90	91	121	91	155
6	89	107	119	185	60	−117	z	158	55	91	124	139
7	77	149	149	173	63	<−299	120	132	>376	91	155	121
8	209	244	343	319	120	173	−75	251	133	88	258	191
9	<30	119	173	116	93	114	135	138	94	197	61	94
10	77	83	155	137	93	144	84	254	<−70	127	109	124
11	77	119	z	>375	z	>353	170	93	88	136	z	>397
12	143	170	161	128	−45	449	111	132	z	212	145	151
13	92	134	149	158	63	344	108	242	130	100	151	191
14	89	36	−48	107	224	90	111	<−1002	124	136	124	139
15	113	119	170	3	96	z	z	z	91	118	185	291
16	75	z	>688	134	<−251	188	167	<−281	109	103	148	(151)
17	69	238	143	116	<−120	138	144	(149)	(121)	173	197	200
18	<−18	146	>277	128	(120)	191	144	152	185	251	315	273
19	54	98	140	113	75	<−957	167	117	242	288	348	594
20	92	30	45	<119	−3	−132	z	359	439	336	476	445
21	89	95	161	<−581	z	>885	179	z	391	339	406	151
22	<−519	158	z	146	93	257	z	272	−33	176	197	39
23	−191	265	116	116	>1011	164	191	161	9	100	88	106
24	155	119	107	316	87	111	−78	117	64	3	61	330
25	149	z	271	89	90	254	120	117	58	79	170	191
26	<−12	z	101	24	z	149	90	123	112	91	151	212
27	60	89	113	107	60	69	z	<224	133	94	85	97
28	101	131	−3	209	z	z	120	161	109	94	121	121
29	119	265	122	101	—	—	—	—	97	97	133	130
30	89	113	125	158	—	—	—	—	73	94	133	115
31	113	104	z	128	—	—	—	—	103	118	148	151
(a)	97	135	211	148	148	220	133	188	141	143	182	210
(b)	84	146	129	152	90	192	83	159	124	143	184	195
Mean ...	(a) 147. (b) 128.				(a) 173. (b) 131.				(a) 170. (b) 161.			

Day.	April. Factor 1·34.				May. Factor 1·31.				June. Factor 1·30.			
	3 h.	9 h.	15 h.	21 h.	3 h.	9 h.	15 h.	21 h.	3 h.	9 h.	15 h.	21 h.
	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.
1	152	189	192	155	141	z	−32	z	89	108	99	124
2	121	186	167	<−1147	z	90	−3	<−320	96	83	80	137
3	<−651	115	158	93	128	134	(141)	(112)	96	134	115	83
4	z	186	>580	z	<−1040	<−880	−10	−419	105	118	147	137
5	146	96	167	124	32	32	275	499	128	108	159	169
6	133	171	136	143	320	304	509	381	112	118	137	207
7	155	121	233	217	218	208	269	272	89	131	140	182
8	34	62	155	34	147	208	131	160	80	153	191	147
9	322	143	186	425	109	115	115	157	118	89	80	48
10	195	143	183	43	115	86	35	435	6	99	105	220
11	329	31	201	<−387	90	218	541	128	99	99	115	159
12	93	127	158	152	29	115	144	109	13	140	118	73
13	85	z	147	85	58	189	<−880	451	57	115	156	303
14	z	114	117	124	−42	202	394	442	83	150	51	64
15	95	91	−359	33	125	115	173	147	−96	175	188	112
16	−75	111	−49	140	131	115	115	64	156	226	220	195
17	114	156	104	150	96	102	61	154	118	370	191	<−510
18	114	179	166	130	102	90	109	125	99	83	115	80
19	124	33	163	153	67	64	96	96	96	86	128	124
20	117	−3	49	117	80	77	77	99	80	45	73	284
21	−75	<−336	75	117	112	125	115	144	115	115	64	118
22	95	29	176	130	144	102	147	141	112	29	102	99
23	143	78	98	114	74	64	96	112	64	96	108	140
24	−13	163	212	274	112	118	96	z	80	80	159	147
25	339	228	212	225	170	278	419	368	108	357	303	370
26	163	170	170	199	307	310	576	387	354	545	−271	−83
27	225	153	189	156	509	512	221	189	207	150	131	131
28	<−1301	130	231	222	259	346	118	144	140	159	144	147
29	147	114	160	143	115	74	z	10	124	86	124	175
30	78	−231	124	264	96	154	144	64	156	153	147	159
31	—	—	—	—	150	195	144	86	—	—	—	—
(a)	153	128	175	154	144	164	202	203	110	147	134	155
(b)	132	106	128	160	143	171	207	201	102	139	118	147
Mean ...	(a) 153. (b) 131.				(a) 177. (b) 180.				(a) 136. (b) 127.			

NOTE.—The Potential Gradient is reckoned as positive if the potential increases upwards. For indeterminate potential gradient the notation *z* is used.
(*a*) Mean of all positive readings. (*b*) Mean from all complete days using both positive and negative readings.

Mean Values for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

1. Lerwick. **1931.**

Day.	July. Factor 1·33.				August. Factor 1·33.				September. Factor 1·34.			
	3h.	9 h.	15 h.	21 h.	3 h.	9 h.	15 h.	21 h.	3 h.	9 h.	15 h.	21 h.
	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.
1	231	205	306	−147	283	241	279	611	65	131	131	157
2	173	359	261	300	357	208	273	296	62	108	124	180
3	326	170	359	421	452	383	364	487	95	128	150	222
4	355	111	293	456	283	231	224	273	108	147	114	196
5	111	163	763	564	224	406	211	409	<− 20	121	92	167
6	603	492	<−733	88	218	195	68	227	131	118	118	141
7	293	205	205	704	65	85	107	159	114	− 20	108	147
8	509	140	124	160	97	114	127	163	111	49	20	95
9	212	98	33	26	120	117	94	137	118	121	114	121
10	39	− 10	98	147	114	107	97	97	95	95	154	108
11	95	170	147	170	133	107	130	182	<−216	177	98	170
12	153	117	62	− 85	65	88	97	208	56	<− 78	65	111
13	− 62	− 20	231	150	81	94	143	163	29	124	121	163
14	98	251	368	391	127	175	163	94	92	95	(288)	422
15	264	225	199	163	120	159	117	94	265	281	160	190
16	111	121	81	108	52	120	127	153	134	128	157	347
17	95	59	98	85	120	221	218	153	190	160	199	173
18	65	117	130	81	78	97	107	163	59	193	98	193
19	72	143	46	130	75	123	120	166	124	121	144	157
20	101	85	117	173	94	123	78	146	82	114	118	193
21	124	143	130	176	65	88	130	133	118	154	180	154
22	147	150	629	724	36	75	59	101	347	128	206	196
23	293	183	143	245	−107	111	114	123	141	262	121	298
24	117	215	(359)	277	94	49	107	130	82	134	124	163
25	571	668	176	261	120	120	133	241	124	131	88	232
26	271	130	143	421	104	127	159	201	128	121	111	219
27	424	502	241	434	166	309	270	101	163	118	137	131
28	209	463	176	502	244	201	241	159	82	114	78	288
29	108	156	98	271	97	143	159	163	173	183	540	262
30	209	134	143	137	101	159	137	195	252	386	340	249
31	147	186	209	310	94	127	104	123	—	—	—	—
(*a*)	218	212	212	278	143	158	153	195	126	148	150	189
(*b*)	195	188	212	258	135	158	153	195	129	142	157	200
Mean ...	(*a*) 230. (*b*) 214.				(*a*) 163. (*b*) 160.				(*a*) 154. (*b*) 157.			

Day.	October. Factor 1·35.				November. Factor 1·33.				December. Factor 1·29.			
	3 h.	9 h.	15 h.	21 h.	3 h.	9 h.	15 h.	21 h.	3 h.	9 h.	15 h.	21 h.
	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.
1	269	299	64	171	−495	132	132	205	103	181	252	87
2	97	128	215	—	195	224	386	290	81	100	210	262
3	—	121	111	141	231	297	−132	109	149	19	145	149
4	44	339	101	165	76	−290	132	102	94	− 84	113	103
5	134	134	138	168	92	99	135	165	116	191	−391	145
6	131	262	437	333	393	238	191	155	100	94	223	145
7	− 13	144	161	168	162	112	152	<−1033	97	423	36	171
8	34	101	131	30	<−1403	198	304	241	123	252	<355	171
9	101	97	151	< 50	254	175	215	178	48	< 65	120	191
10	111	124	108	124	102	− 59	462	247	−346	−310	194	152
11	108	64	124	175	211	109	− 7	165	—	145	110	87
12	131	168	37	84	− 30	132	10	99	58	100	126	110
13	97	114	118	131	86	125	149	168	129	145	168	174
14	108	128	101	138	195	290	115	195	97	65	74	226
15	84	121	97	114	142	228	119	215	65	97	87	123
16	30	71	84	202	132	122	244	201	97	110	123	123
17	242	124	94	128	112	139	89	− 63	100	81	191	194
18	47	91	94	118	79	83	− 667	−271	132	220	− 61	136
19	71	50	71	94	−597	−201	99	251	90	113	191	197
20	192	104	128	121	228	198	221	191	110	203	284	161
21	60	101	114	−134	178	115	129	145	142	132	158	36
22	− 20	− 3	168	148	99	115	205	224	197	284	391	161
23	87	121	60	161	125	89	<−1419	<−1435	45	61	158	168
24	151	212	138	<282	<−1429	<− 693	178	181	− 3	90	171	271
25	155	121	128	97	201	145	208	472	*z*	258	158	194
26	74	−276	101	—	<−541	162	238	158	152	94	165	113
27	—	—	—	168	129	112	201	135	126	207	−210	*z*
28	97	101	37	131	102	89	162	142	184	123	171	107
29	71	97	124	171	69	66	59	175	329	339	468	184
30	118	84	124	131	96	142	215	208	149	614	113	197
31	60	−299	134	413	—	—	—	—	84	87	178	123
(*a*)	108	134	123	156	154	151	183	193	118	169	183	155
(*b*)	98	110	119	143	91	113	123	164	98	137	151	155
Mean ...	(*a*) 130. (*b*) 118.				(*a*) 171. (*b*) 123.				(*a*) 157. (*b*) 135.			
Annual Means ...								(*a*)	138	159	170	185
								(*b*)	118	145	147	177
									(*a*) 163.		(*b*) 147.	

The Potential Gradient is reckoned as positive if the potential increases upwards. For indeterminate potential gradient the notation *z* is used.
(*a*) Mean of all positive readings. (*b*) Mean from all complete days using both positive and negative readings.

POTENTIAL GRADIENT (reduced to level surface) : DIURNAL INEQUALITIES (in volts per metre).

The departures from the mean of the day are adjusted for non-cyclic change.

* 0*a* DAYS ONLY.

2. Lerwick. **1931.**

Month and Season.	Hour. 1.	G.M.T. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Non-cyclic change 24–0.	No. of Days used.	Mean Values
	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.		v/m.
Jan.	− 15	− 16	− 32	− 37	− 27	− 31	+ 10	+ 30	+ 17	+ 23	− 8	+ 9	+ 20	+ 19	− 5	+ 30	+ 38	+ 22	+ 33	+ 14	− 4	− 20	− 33	− 37	+ 92	1	143
Feb.	− 19	− 26	− 40	− 48	− 34	− 31	− 14	+ 16	+ 4	+ 43	+ 32	+ 42	+ 12	0	+ 12	− 59	− 59	+ 18	+ 27	+ 17	+ 59	+ 34	+ 24	− 10	− 57	1	110
Mar.	− 21	− 29	− 30	− 32	− 35	− 39	− 35	− 34	− 31	− 24	− 21	− 8	+ 14	+ 18	+ 19	+ 50	+ 52	+ 40	+ 45	+ 35	+ 33	+ 17	+ 19	− 4	+ 67	12	168
April	− 29	− 32	− 13	− 13	− 9	− 9	− 5	− 11	− 6	− 15	− 9	− 3	+ 17	+ 20	+ 23	+ 32	+ 25	+ 6	+ 8	+ 21	+ 20	+ 15	− 9	− 23	− 15	5	157
May	− 12	− 22	− 18	− 2	+ 6	+ 32	+ 46	+ 23	+ 20	+ 12	+ 8	− 20	− 19	− 37	− 34	− 22	+ 13	+ 8	+ 11	+ 20	+ 10	+ 11	− 10	− 23	− 88	7	197
June	− 38	− 55	− 57	− 59	− 53	− 38	− 26	− 16	+ 3	+ 2	+ 8	+ 9	+ 25	+ 19	+ 22	+ 21	+ 20	+ 19	+ 28	+ 51	+ 63	+ 61	+ 7	− 16	+ 16	6	153
July	− 14	0	0	− 12	− 10	+ 20	+ 25	− 37	− 56	− 69	− 76	− 49	− 22	+ 26	+ 31	+ 40	+ 9	+ 22	+ 29	+ 27	+ 15	+ 32	+ 35	+ 35	+ 33	8	211
Aug.	− 20	− 24	− 23	− 31	+ 8	+ 25	+ 37	+ 27	− 3	+ 8	− 3	− 13	− 14	− 17	− 13	− 6	+ 12	− 5	+ 4	+ 20	+ 32	+ 11	− 3	− 9	0	24	181
Sept.	− 11	− 13	− 11	− 5	− 2	− 9	+ 3	+ 10	− 2	− 25	− 19	− 17	− 21	− 17	− 23	− 15	0	+ 20	+ 32	+ 58	+ 45	+ 17	+ 12	− 7	− 7	12	154
Oct.	− 10	− 3	− 11	− 12	− 16	− 44	− 20	− 6	− 3	− 11	− 29	− 21	− 13	− 16	− 7	0	+ 37	+ 37	+ 51	+ 36	+ 33	+ 22	+ 11	− 2	− 46	5	117
Nov.	− 12	− 28	− 4	− 9	+ 18	+ 25	+ 11	+ 2	− 15	− 1	− 25	− 5	− 26	− 3	+ 3	+ 7	+ 13	+ 33	+ 51	+ 32	+ 15	− 6	− 31	− 45	− 16	4	189
Dec.	− 63	− 53	− 50	− 48	− 51	− 55	− 45	− 13	− 28	+ 8	+ 27	+ 45	+ 48	+ 43	+ 37	+ 65	+ 57	+ 78	+ 49	+ 31	+ 3	+ 2	− 37	− 52	+ 22	4	157
Year	− 22	− 25	− 24	− 26	− 17	− 13	− 1	− 1	− 8	− 5	− 10	− 3	+ 2	+ 5	+ 5	+ 12	+ 18	+ 25	+ 31	+ 30	+ 27	+ 16	− 1	− 16	0	89	161
Winter	− 27	− 31	− 31	− 35	− 23	− 23	− 9	+ 9	− 5	+ 18	+ 7	+ 23	+ 13	+ 15	+ 12	+ 11	+ 12	+ 38	+ 40	+ 23	+ 18	+ 3	− 19	− 36	+ 10	10	150
Eqnx.	− 18	− 19	− 16	− 15	− 15	− 25	− 14	− 10	− 11	− 19	− 19	− 12	− 1	+ 1	+ 3	+ 17	+ 29	+ 26	+ 34	+ 37	+ 33	+ 18	+ 8	− 9	0	34	149
Sumr.	− 21	− 25	− 25	− 26	− 12	+ 10	+ 21	− 1	− 9	− 12	− 16	− 18	− 7	− 2	+ 1	+ 8	+ 13	+ 11	+ 18	+ 29	+ 30	+ 29	+ 7	− 3	− 10	45	185

3. Lerwick. **1931.**

* 1*a* AND 2*a* DAYS ONLY.

Month and Season.	Hour. 1.	G.M.T. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Non-cyclic change 24–0.	No. of Days used.	Mean Values
	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.		v/m.
Jan.	− 11	− 23	− 25	− 24	− 15	+ 1	− 15	− 10	− 17	− 92	− 34	+ 17	+ 34	+ 36	− 19	− 36	+ 69	+ 63	+ 40	+ 27	+ 26	+ 2	+ 3	+ 3	+ 5	4	100
Feb.	− 39	− 59	− 20	− 1	− 16	− 18	− 29	− 7	− 7	+ 10	+ 33	+ 33	+ 9	−145	− 61	+ 65	+ 39	+ 49	+ 44	+ 20	+ 25	+ 25	+ 23	+ 27	− 41	2	103
Mar.	− 29	− 56	− 44	− 13	− 16	− 5	+ 28	− 1	− 21	− 58	− 18	− 2	− 2	− 11	− 13	+ 19	+ 23	+ 16	+ 42	+ 79	+ 25	+ 53	+ 8	− 4	− 3	6	171
April	+ 24	+ 27	+36	+ 29	+ 28	+ 14	− 3	+ 9	+ 3	+ 14	+ 5	− 26	− 36	− 67	− 48	− 21	− 27	− 1	+ 44	+ 33	+ 17	− 6	− 57	+ 8	− 48	5	113
May	− 22	− 96	− 75	− 17	+ 36	+ 30	+ 31	+ 5	− 19	− 10	− 23	− 35	− 31	− 7	+ 24	+ 29	+ 29	+ 70	+ 40	0	+ 11	+ 17	+ 20	− 7	− 34	8	146
June	− 14	− 20	− 13	− 12	− 20	− 18	− 5	− 5	+ 13	+ 4	− 1	− 9	− 9	− 4	+ 12	+ 24	+ 15	+ 17	+ 12	+ 4	+ 14	+ 14	+ 4	− 3	+ 22	9	116
July	+ 14	− 20	− 5	− 22	− 28	− 23	− 8	− 17	− 13	− 49	− 22	− 55	+ 8	+ 9	− 24	− 28	− 19	+ 10	− 8	+ 33	+ 72	+ 90	+ 90	+ 15	+ 17	11	173
Aug.	− 35	0	− 32	− 21	+ 11	+ 2	− 3	0	− 10	− 20	− 15	− 3	+ 11	− 43	+ 11	− 7	0	+ 13	+ 32	+ 81	+ 58	− 18	+ 5	− 17	− 13	2	108
Sept.	− 17	− 61	− 56	− 35	− 27	− 20	− 26	− 14	− 6	− 28	− 3	+ 18	+ 2	+ 25	+ 39	+ 42	+ 46	+ 34	+ 10	+ 7	+ 34	+ 22	+ 14	+ 1	− 8	7	190
Oct.	− 27	− 22	− 27	− 29	− 9	− 15	+ 33	+ 23	+ 39	+ 17	− 38	− 57	− 30	− 5	− 10	+ 25	+ 56	+ 22	+ 14	+ 23	+ 5	+ 9	+ 1	− 2	− 9	9	128
Nov.	+ 12	− 38	− 99	− 37	+ 1	− 14	− 9	+ 28	+ 26	− 4	− 20	− 52	− 37	− 2	− 32	+ 11	+ 28	+ 42	+ 35	+ 46	+ 29	+ 19	+ 38	+ 28	− 19	8	131
Dec.	− 74	− 50	− 58	− 89	− 56	− 38	− 32	− 25	− 8	+ 5	+ 47	+ 27	+ 29	+ 17	+ 42	+ 32	+ 37	+ 58	+ 65	+ 59	+ 38	+ 13	+ 40	− 78	− 82	9	138
Year	− 18	− 35	− 35	− 23	− 9	− 9	− 3	− 1	− 2	− 18	− 7	− 12	− 4	− 16	− 7	+ 13	+ 25	+ 33	+ 31	+ 34	+ 29	+ 20	+ 16	− 2	− 18	80	135
Winter	− 28	− 43	− 51	− 38	− 21	− 17	− 21	− 3	− 1	− 20	+ 7	+ 6	+ 9	− 23	− 17	+ 18	+ 43	+ 53	+ 46	+ 38	+ 29	+ 15	+ 26	− 7	− 34	23	118
Eqnx.	− 12	− 28	− 23	− 12	− 6	− 7	+ 8	+ 4	+ 4	+ 14	− 13	− 17	− 17	− 15	− 8	+ 16	+ 25	+ 18	+ 27	+ 35	+ 20	+ 19	− 9	+ 1	− 17	27	151
Sumr.	− 14	− 34	− 31	− 18	0	− 2	+ 4	− 4	− 7	− 19	− 15	− 25	− 5	− 11	+ 6	+ 5	+ 6	+ 27	+ 19	+ 29	+ 39	+ 26	+ 30	− 3	− 2	30	136

* NOTE.—For explanation of 0*a*, 1*a* and 2*a* Days, *see* page 51.

ELECTRICAL CHARACTER OF EACH DAY, AND APPROXIMATE DURATION OF NEGATIVE POTENTIAL GRADIENT.

4. Lerwick. **1931.**

Day.	January. Character.	January. Duration of negative pot. grad.	February. Character.	February. Duration of negative pot. grad.	March. Character.	March. Duration of negative pot. grad.	April. Character.	April. Duration of negative pot. grad.	May. Character.	May. Duration of negative pot. grad.	June. Character.	June. Duration of negative pot. grad.	July. Character.	July. Duration of negative pot. grad.	August. Character.	August. Duration of negative pot. grad.	September. Character.	September. Duration of negative pot. grad.	October. Character.	October. Duration of negative pot. grad.	November. Character.	November. Duration of negative pot. grad.	December. Character.	December. Duration of negative pot. grad.
		hrs.		hrs.		hrs.		hrs.		hrs.		hrs.		hrs.		hrs.		hrs.		hrs.		hrs.		hrs.
1	2c	13·8	2c	8·0	1c	1·8	0a	...	2c	6·9	1a	0·2	1b	2·2	0a	...	0a	...	1a	0·7	1a	1·9	1b	0·7
2	1b	0·6	1a	0·1	1a	0·2	2b	3·7	2c	3·7	1b	0·5	1b	1·2	0a	...	1b	0·7	(1c)	—	1b	0·5	1a	0·2
3	1c	2·2	0a	...	1b	1·4	2b	6·8	(1b)	—	1b	0·3	0a	...	0a	...	1b	0·9	(0a)	...	2a	3·3	2b	6·3
4	1b	1·7	2c	7·1	0a	...	2c	3·5	2c	18·5	1b	0·8	1a	0·7	0a	...	0a	...	1a	0·2	2b	5·9	2a	4·7
5	1b	0·4	1b	0·6	1a	0·1	1c	1·3	2b	5·1	1a	0·1	0a	...	0a	...	1b	0·8	0a	...	1a	0·6	1c	1·8
6	1a	0·1	2b	3·2	0a	...	0a	...	1b	1·3	0a	...	2b	5·3	0a	...	0a	...	1a	0·9	0a	...	1b	1·4
7	0a	...	2c	4·0	1b	1·0	0a	...	0a	...	1a	0·4	1a	0·5	1a	0·2	1b	1·1	1b	1·0	2b	5·2	1a	1·5
8	1b	1·5	2b	3·3	0a	...	1a	2·7	0a	...	0a	...	0a	...	1a	0·8	1b	1·5	1b	1·7	2b	5·2	1c	3·0
9	1b	1·4	2b	3·1	1a	0·5	1b	1·6	0a	...	1a	0·1	1a	1·1	0a	...	1b	0·8	1b	0·4	1b	1·4	1c	2·5
10	2b	3·3	1c	1·7	1c	2·4	1b	1·9	1b	0·7	1a	1·6	2a	6·2	1b	0·2	1b	1·4	1a	0·1	1b	2·8	(2a)	—
11	1c	0·8	2c	3·3	1c	0·6	2b	4·3	1b	1·8	0a	...	0a	...	0a	...	1b	2·0	1b	0·8	1b	1·2	(0a)	...
12	1b	0·8	1b	2·5	1b	1·5	1b	0·9	1a	1·5	1a	1·7	1a	2·0	0a	...	1b	1·5	2a	3·7	1a	1·3	1a	0·5
13	1b	0·7	1c	1·5	1b	0·7	1c	1·8	2b	3·3	0a	...	2b	6·1	0a	...	1a	0·5	1b	1·3	1a	0·3	1a	1·3
14	2a	3·7	1b	2·9	0b	...	1b	0·3	1a	0·5	2b	3·5	1a	0·4	0a	...	1a	1·0	0a	...	1a	0·5	1b	1·3
15	2b	4·2	2c	3·6	0a	...	2a	6·7	1a	0·2	2b	4·4	0a	...	0a	...	0a	...	0a	...	0a	...	0b	...
16	1c	2·1	2c	3·9	(1a)	0·5	2c	4·6	1a	0·4	1a	0·4	1a	0·3	0a	...	1a	0·6	1a	0·1	0a	...	0a	...
17	1c	0·5	1b	—	(1a)	0·4	1c	2·5	0a	...	2b	3·3	1a	0·4	0a	...	1a	0·1	0a	...	1b	2·5	0a	...
18	1c	1·0	0a	...	0a	...	1b	0·8	1a	0·4	1a	0·1	0a	...	0a	...	1a	0·2	0a	...	2b	11·3	1b	1·1
19	1a	0·1	2c	5·5	0a	...	1b	1·1	1b	0·5	1b	1·7	1a	0·9	0a	...	1a	0·2	1a	3·0	2c	12·5	0a	...
20	2b	5·3	2c	4·3	1a	0·3	1b	1·4	1b	1·2	2b	4·1	0a	...	0a	...	1b	0·7	1b	0·7	0b	...	0a	...
21	1b	1·5	2c	3·7	1b	0·5	2b	3·9	1b	2·9	1b	1·5	0a	...	0a	...	0a	...	1a	0·9	1b	2·4	1a	0·5
22	1b	1·9	1c	2·5	2b	5·6	2c	4 5	0a	...	1b	0·9	1b	1·1	1b	2·7	0a	...	2b	3·4	0a	...	1a	0·1
23	2b	3·4	1b	0·9	1a	1·7	1a	0·1	1a	0·4	1b	1·4	1b	3·0	1b	1·7	0a	...	1b	1·7	2b	12·4	1a	2·3
24	1b	0·6	1a	2·2	1a	0·4	1b	1·1	2c	4·7	0a	...	1b	1·5	1b	0·7	0a	...	1b	0·6	2c	9·5	1b	1·7
25	1c	2·7	1b	2·2	0a	...	1a	0·1	1b	1·6	0a	...	1b	0·2	0a	...	0a	...	1b	0·3	1b	2·1	1c	1·1
26	2c	3·4	1b	0·8	0a	...	0a	...	1b	0·4	2b	6·5	1b	0·3	0a	...	0a	...	2b	—	1b	2·7	2a	3·1
27	1a	0·1	1b	2·4	(1b)	—	1a	0·2	0a	...	1b	0·4	1b	1·3	0a	...	0a	...	(1b)	—	1a	0·2	1b	2·9
28	1b	1·5	2c	3·3	0a	...	2b	4·3	0a	...	1b	0·8	1a	1·1	0a	...	0a	...	1a	0·6	1a	0·1	1b	1·5
29	1b	2·4	—	—	0a	...	0a	...	1b	2·9	1b	1·0	1b	1·6	0a	...	1a	0·3	1b	0·9	2b	3·1	1c	2·0
30	1b	0·7	—	—	0a	...	2b	5·9	1a	0·3	1a	0·2	0b	...	0a	...	1a	0·1	1b	0·3	1b	0·3	1c	1·2
31	1c	2·5	—	—	0a	...			1a	1·1			1a	0·1	0a	..			2b	7·3			1b	0·6
Total	37	64·9	39	76·6	19	19·6	35	66·0	30	60·3	29	35·9	25	37·5	6	6·3	18	14·4	29	30·6	34	89·2	29	43·3
No. of days used.	31	31	28	27	31	30	30	30	31	30	30	30	31	31	31	31	30	30	31	28	30	30	31	31
Mean	1·19	2·1	1·39	2·8	0·61	0·7	1·17	2·2	0·97	2·0	0·97	1·2	0·81	1·2	0·19	0·2	0·6	0·5	0·94	1·1	1·13	3·0	0·94	1·4

		0	1	2
Annual Values :—	Character Frequency	97	206	62

Mean character figure 0·90 (365 days)
Duration of negative pot. grad. : Total 544·6 hrs.
No. of days 359
Mean 1·52 hrs.

Explanatory Note.—The electrical character of the day is indicated by the figures 0, 1, or 2, according to the character of the trace of the electrograph as regards negative potential gradient. The explanation of these symbols is as follows :—

0, denotes a day during which from midnight to midnight no negative potential was recorded.

1, denotes a day with excursions to the negative not amounting in the aggregate to more than three hours.

2, denotes negative potential extending in the aggregate over 3 hours or more.

a, denotes that within the 25 periods of 60 minutes for which an estimate of the mean potential gradient has to be made in the process of tabulation there was in no case a range of potential gradient in the open exceeding 1000 volts.

b, denotes that a range of potential gradient in the open exceeding 1000 volts was reached in at least one but in fewer than six of the 25 hourly periods referred to above.

c, denotes that a range of 1000 volts or more occurred in at least six of the 25 hourly periods.

Mean values for periods of sixty minutes centred at the hours of Greenwich Mean Time.

5. Lerwick. (H.) 14,000 γ (·14 C.G.S. unit) + **January, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	528	525	523	523	527	531	535	534	533	532	529	529	534	534	534	532	536	534	537	540	535	536	524	519	519	531
2	519	521	524	526	530	531	529	529	532	529	527	529	530	530	530	530	535	535	535	535	533	531	529	528	526	530
3 Q	526	526	527	525	525	528	529	529	529	528	528	531	533	533	531	534	534	533	533	531	528	526	526	524	524	529
4	524	525	526	526	527	527	527	527	528	528	521	520	527	531	530	526	528	529	530	528	528	527	526	526	526	527
5	526	525	525	527	528	529	530	529	527	528	531	531	534	535	534	532	532	533	532	531	530	529	529	524	523	530
6	523	524	530	529	532	536	541	539	533	531	531	530	530	535	535	532	533	534	535	534	533	531	530	528	530	532
7 Q	530	530	530	531	533	534	536	535	536	532	534	536	537	536	536	534	533	532	533	534	534	532	529	530	529	533
8 Q	528	526	528	527	531	532	535	535	532	532	532	534	535	535	533	532	531	532	534	535	534	532	531	531	531	532
9	530	527	518	531	528	525	539	538	541	532	531	530	534	536	528	525	524	528	530	529	531	525	524	519	505	529
10 D	504	503	504	506	516	508	526	527	523	515	523	522	520	518	520	519	513	515	519	520	541	521	514	514	514	517
11	514	512	513	517	518	520	520	518	516	509	513	518	522	523	523	521	522	519	515	514	515	511	510	510	511	516
12	511	510	511	511	515	519	521	523	518	516	521	521	519	518	520	524	527	523	523	522	521	523	521	520	522	519
13	522	517	516	517	518	519	521	521	519	520	524	523	521	525	525	524	524	523	524	524	524	523	533	522	522	522
14	522	523	523	524	524	525	526	524	523	523	526	530	534	535	533	529	529	530	531	529	529	529	527	524	521	527
15	521	515	519	521	524	525	527	533	527	524	527	534	530	529	528	524	525	528	529	528	524	523	522	518	521	525
16 D	521	516	505	526	538	538	535	530	527	500	500	509	506	511	527	509	512	511	539	504	511	509	523	506	509	517
17 D	509	493	505	510	509	523	520	515	518	515	513	485	481	499	514	514	527	519	517	531	512	511	515	520	524	512
18 D	525	518	513	514	519	524	518	524	513	471	491	507	516	520	525	516	502	513	521	527	518	515	516	521	503	514
19	504	508	508	515	520	524	525	523	521	518	514	509	510	517	522	521	525	526	526	525	519	515	522	529	542	519
20	542	513	519	523	526	529	529	528	528	526	526	525	527	528	525	521	514	507	505	515	516	522	519	540	523	523
21	524	522	521	524	526	535	538	538	537	535	530	526	526	526	523	521	526	524	521	515	518	523	520	526	526	526
22	526	524	521	523	518	526	529	536	533	526	512	520	516	511	513	514	521	523	525	524	522	521	520	515	521	522
23	522	521	519	520	522	521	525	527	528	528	527	522	520	519	522	519	515	516	517	521	522	522	521	525	521	522
24 Q	521	519	521	519	523	527	530	528	525	526	525	523	522	524	525	524	522	525	528	531	531	529	527	525	525	525
25 D	526	526	526	526	528	529	529	530	528	534	533	529	526	525	526	527	529	533	532	514	508	492	474	454	464	519
26	464	424	492	511	513	515	516	516	521	523	523	520	517	517	517	519	522	524	527	520	522	524	521	519	517	513
27	518	518	520	519	521	523	524	524	523	521	523	523	524	526	528	524	523	518	526	517	517	524	514	504	517	521
28	517	519	506	523	518	526	532	528	523	522	518	514	508	511	521	523	524	527	524	521	523	523	521	523	523	521
29	523	523	523	523	524	524	527	529	530	531	534	529	518	512	518	523	524	522	527	528	527	522	521	523	524	524
30 Q	525	525	527	528	528	529	534	530	528	527	527	522	520	522	528	528	530	531	531	532	530	530	528	529	528	528
31	528	529	529	528	527	530	534	531	528	525	527	525	522	522	524	524	530	530	530	529	525	530	528	537	534	528
Mean	520	516	519	522	524	526	529	528	527	523	523	523	523	524	526	524	525	525	527	525	525	523	521	520	520	524

MAGNETIC DECLINATION (WEST).

Mean values for periods of sixty minutes centred at the hours of Greenwich Mean Time.

6. Lerwick. (D.) 13° + **January, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	65·4	65·0	64·2	64·4	64·8	65·9	65·9	65·5	65·7	66·1	67·9	69·4	69·4	68·2	67·9	67·7	67·9	67·5	66·9	66·7	67·5	65·9	61·9	53·6	65·9	65·9
2	65·9	65·2	66·9	64·2	62·5	64·2	65·5	66·5	65·5	65·7	66·9	67·5	67·7	68·4	69·2	68·2	67·7	67·1	66·7	66·1	66·1	66·3	64·8	67·3	66·5	66·3
3 Q	66·6	66·4	66·4	66·4	66·4	66·0	66·0	66·0	66·0	66·4	67·8	68·0	67·4	67·8	67·8	67·0	66·6	66·4	66·2	66·0	66·0	66·0	66·0	66·4	66·0	66·6
4	66·0	65·1	66·6	66·4	65·6	66·4	66·4	66·2	66·4	66·8	66·8	67·4	67·6	67·4	66·6	66·2	65·8	66·0	66·0	65·6	65·5	65·5	64·9	65·1	65·3	66·2
5	65·3	64·9	65·5	65·6	65·5	65·6	65·6	65·5	66·0	66·4	67·4	67·6	67·8	67·2	66·8	66·6	66·4	66·2	66·2	65·8	65·5	65·6	65·8	65·5	64·9	66·1
6	64·9	65·1	63·7	63·9	64·1	65·1	64·9	65·6	65·8	66·2	67·0	67·6	68·3	68·2	68·0	67·6	67·4	67·0	66·2	65·8	65·6	65·5	65·5	65·6	65·6	66·0
7 Q	65·6	65·8	66·0	66·0	66·0	66·0	65·8	66·0	65·6	66·0	66·6	67·6	67·6	66·8	66·2	67·0	67·2	66·6	66·2	66·0	65·8	65·8	65·5	64·7	65·1	66·2
8 Q	65·1	65·3	65·8	65·6	65·8	65·5	65·3	65·6	66·0	66·4	67·2	67·8	67·8	67·4	66·6	66·0	66·2	66·0	66·0	66·0	65·8	65·5	65·6	65·6	65·6	66·1
9	65·7	65·7	68·1	55·3	54·2	58·6	61·7	65·0	66·1	67·3	68·6	68·8	69·6	72·1	69·2	71·0	70·4	68·6	67·5	66·1	66·9	66·7	63·2	58·0	52·6	65·3
10 D	52·6	58·2	61·9	66·1	61·1	63·8	62·8	64·8	69·0	68·6	68·1	69·2	69·6	68·1	66·7	66·9	65·9	65·6	66·3	63·2	55·7	60·5	64·4	65·2	65·0	64·6
11	65·0	64·6	65·7	65·6	65·2	65·2	65·4	65·2	67·1	66·7	68·1	68·6	68·1	66·7	66·1	66·1	67·1	68·1	66·1	67·3	63·4	65·0	65·7	62·7	67·1	66·1
12	67·1	62·1	63·6	64·8	65·6	65·0	64·6	64·4	64·4	65·4	66·7	68·4	67·9	68·1	68·1	68·4	68·1	68·4	68·8	68·1	67·1	65·0	65·6	63·2	62·1	66·1
13	62·2	63·7	64·3	64·7	64·9	65·3	64·9	65·1	66·0	66·2	68·5	67·8	68·2	67·4	67·6	67·0	67·2	67·2	66·8	66·2	65·8	65·7	64·3	65·7	66·0	66·0
14	66·0	65·8	65·7	65·5	65·8	65·8	65·7	65·5	65·8	66·4	67·6	68·2	68·2	67·6	66·8	66·6	66·2	66·2	66·0	65·8	65·7	65·3	65·3	64·9	61·6	66·1
15	61·6	62·6	61·2	62·0	64·3	65·7	65·5	65·1	64·9	66·0	66·4	69·5	69·9	69·1	67·0	67·2	67·0	67·2	67·8	67·4	62·9	64·3	64·9	62·2	63·7	65·5
16 D	63·7	60·8	59·1	61·8	62·9	66·2	67·8	67·0	69·5	70·9	71·6	73·2	71·1	68·5	67·8	60·1	66·8	64·7	50·8	55·4	60·4	62·8	47·7	59·5	59·7	63·7
17 D	59·7	59·7	63·9	70·1	68·2	70·9	67·4	68·0	66·4	67·8	67·4	66·6	70·1	71·4	68·7	66·6	55·0	66·2	59·7	57·5	62·8	63·9	61·6	63·5	63·3	65·2
18 D	63·3	63·3	61·0	62·6	64·9	65·3	69·3	71·4	71·2	73·9	75·9	71·2	69·1	68·5	67·8	68·0	64·5	61·0	58·5	57·9	60·8	64·5	62·9	63·3	68·9	66·0
19	68·9	66·2	65·3	65·1	64·7	65·1	64·7	65·5	65·8	67·0	66·8	66·8	68·4	69·3	68·0	65·7	65·5	65·1	65·7	64·9	59·1	61·2	62·8	65·5	68·2	65·5
20	68·2	65·1	63·5	63·9	64·3	64·7	65·1	64·9	65·1	65·7	66·4	67·0	67·8	67·0	67·8	68·0	63·1	65·5	61·8	66·8	63·9	64·1	63·5	61·4	65·3	65·1
21	65·3	64·9	65·5	64·3	65·5	64·9	64·9	65·7	67·8	68·2	67·8	67·6	68·0	68·2	66·8	66·4	65·8	66·0	65·7	63·9	63·7	61·2	62·8	63·5	64·7	65·6
22	64·7	63·7	65·3	65·3	66·8	64·7	64·5	64·9	65·3	66·0	65·3	65·5	66·2	67·8	67·2	66·2	66·0	65·7	65·1	64·9	64·9	64·5	64·5	63·1	66·4	65·4
23	66·4	65·1	63·1	63·3	64·5	65·3	64·7	64·9	65·3	73·9	65·8	65·8	66·0	66·8	67·0	67·2	67·0	66·8	65·1	65·3	64·5	64·3	63·5	62·0	64·3	65·2
24 Q	64·3	64·7	65·1	65·7	65·1	64·5	64·7	65·3	64·3	63·9	65·1	66·0	66·6	67·0	67·0	66·4	66·4	66·0	65·8	65·7	65·3	65·3	65·1	64·9	64·7	65·4
25 D	64·8	65·0	65·4	65·8	65·8	65·9	66·3	66·1	67·3	66·7	66·9	66·5	67·1	67·3	67·9	67·7	67·5	67·7	68·1	60·5	59·4	51·3	47·8	52·2	52·4	63·8
26	52·4	56·1	65·4	63·8	65·4	65·2	67·5	68·1	70·4	68·3	68·5	68·3	67·7	67·1	67·3	65·9	65·8	66·1	66·3	65·2	64·8	65·0	64·8	64·6	64·8	65·7
27	64·8	65·2	65·2	65·0	64·8	64·6	65·0	65·0	65·4	66·1	66·5	66·9	67·1	66·5	67·5	67·7	70·0	69·2	68·5	63·4	63·0	58·8	54·9	55·3	62·3	64·8
28	62·3	62·9	64·0	61·7	59·2	60·2	61·9	64·0	64·6	64·4	66·1	67·9	68·8	67·7	67·3	66·3	65·9	66·3	65·9	64·4	65·0	64·4	63·4	65·8	66·7	64·7
29	66·7	63·6	64·4	64·4	64·2	65·0	64·8	64·4	64·6	65·6	67·1	68·1	68·5	74·0	71·9	67·5	70·2	66·3	66·5	65·8	65·2	63·6	63·0	65·0	64·8	66·2
30 Q	64·8	64·6	65·6	65·0	65·4	65·4	64·6	64·8	65·6	65·8	66·3	66·5	66·7	67·5	67·1	65·8	65·4	65·8	65·6	65·4	65·0	64·6	64·8	64·8	65·0	65·5
31	65·0	65·4	65·6	64·8	65·8	65·0	64·0	64·2	64·2	64·2	65·2	65·9	66·7	67·1	67·5	66·1	66·5	67·7	67·3	59·2	63·0	65·2	64·2	63·8	61·1	65·1
Mean	64·2	63·9	64·6	64·5	64·5	65·1	65·3	65·7	66·2	66·7	67·4	67·8	68·1	68·1	67·6	66·8	66·4	66·5	65·4	64·5	64·1	64·0	62·9	63·0	64·1	65·6

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

7. Lerwick (V.) — January, 1931.

46,000 γ (·46 C.G.S. unit) +

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	647	649	650	650	647	644	642	643	642	642	644	643	646	640	645	647	648	649	647	647	653	660	690	692	665	**651**
2	665	655	648	637	640	639	639	639	641	643	644	647	647	648	651	650	647	644	643	642	643	647	652	647	647	645
3 Q	647	647	645	645	642	641	638	637	636	636	637	636	637	640	642	642	642	640	639	638	635	636	638	641	641	640
4	641	642	640	639	636	635	633	631	629	628	630	632	629	632	636	638	638	637	636	635	634	633	633	634	634	634
5	634	633	635	635	635	634	632	632	631	628	630	632	631	635	636	640	641	640	639	637	636	634	635	640	639	635
6	639	642	637	639	639	637	634	633	634	632	633	636	638	638	641	642	636	636	637	639	638	637	636	635	633	637
7 Q	633	635	636	637	637	638	636	634	632	631	633	632	633	635	636	637	638	640	639	638	637	635	634	632	630	635
8 Q	630	631	630	631	631	631	630	630	629	628	630	629	629	629	629	631	633	634	634	633	631	630	630	628	627	630
9	627	627	613	592	601	611	613	617	616	620	621	624	624	622	629	638	643	647	648	651	651	659	672	684	671	632
10 D	671	648	648	646	637	626	624	627	622	627	627	631	633	634	633	634	642	642	644	647	616	623	626	627	625	634
11	625	623	622	619	618	617	617	618	618	622	620	620	617	617	616	615	617	621	630	632	636	643	640	640	618	623
12	618	616	620	619	618	618	618	618	620	621	621	623	622	623	626	626	624	627	628	632	635	633	631	635	631	624
13	631	627	625	622	620	621	619	622	623	625	627	630	630	629	630	631	633	635	637	637	637	640	633	638	638	629
14	638	639	636	634	633	632	633	633	635	636	639	640	640	639	641	641	640	637	635	634	634	634	635	637	641	637
15	641	641	635	634	629	628	626	623	623	624	625	624	624	627	632	636	636	634	633	634	640	638	634	635	629	631
16 D	629	602	594	595	604	604	606	613	615	625	624	628	632	640	642	670	663	659	671	650	636	631	617	595	558	625
17 D	558	600	606	588	581	587	598	611	621	627	637	655	663	663	679	685	703	661	652	644	640	638	632	626	607	632
18 D	607	618	626	630	629	627	624	611	619	640	626	629	634	636	643	654	670	691	671	650	634	623	623	614	607	635
19	607	616	628	634	633	631	629	628	630	632	641	648	648	643	645	651	649	647	647	645	651	650	642	633	605	638
20	605	613	633	638	639	638	639	638	636	634	637	638	639	640	645	653	672	679	690	675	666	651	647	630	632	645
21	632	637	642	640	642	639	639	636	634	633	633	633	631	632	635	640	642	643	647	652	647	641	636	625	626	638
22	626	627	627	626	628	623	624	624	622	623	630	626	623	619	623	628	629	629	628	628	626	624	624	625	617	625
23	617	608	614	616	619	621	622	621	618	616	619	619	618	618	619	626	629	630	630	628	626	622	622	617	616	621
24 Q	616	616	615	616	617	617	615	616	616	614	614	613	614	613	614	617	621	622	623	622	621	621	622	621	619	**617**
25 D	619	619	619	618	619	619	619	619	621	618	618	621	620	619	621	623	623	623	627	649	670	661	628	606	550	624
26	550	551	556	611	630	625	618	625	617	620	629	636	639	640	640	638	637	637	637	647	643	636	636	636	635	624
27	635	634	634	633	633	633	632	632	633	631	636	637	637	634	636	638	641	645	641	658	660	651	638	647	649	639
28	649	641	621	585	620	625	626	631	634	640	647	650	652	653	647	643	644	640	646	650	650	651	652	647	606	638
29	606	629	635	637	635	634	633	633	633	630	634	640	646	644	653	662	657	658	650	644	643	647	650	643	639	641
30 Q	639	637	635	634	632	632	631	633	631	632	637	643	646	644	640	638	637	636	635	635	636	637	638	638	638	636
31	638	637	636	636	635	631	630	631	631	630	635	638	638	638	638	643	642	641	638	646	645	635	636	629	622	636
Mean	626	627	627	626	628	627	626	627	627	629	631	633	634	634	637	641	**642**	642	642	642	640	639	637	635	**626**	633

8. Lerwick. DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS: MAGNETIC CHARACTER FIGURES; TEMPERATURE IN MAGNET HOUSE. — January, 1931.

Day.	Terrestrial Magnetic Elements. Horizontal Force. Maximum 14,000 γ +		Minimum 14,000 γ +		Range.	Declination. Maximum 14° +		Minimum 14° +		Range.	Vertical Force. Maximum 46,000 γ +		Minimum 46,000 γ +		Range.	Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2).	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ			°A.
1	15 55	545	506	23 7	39	12 5	10·2	−17·0	22 30	27·2	22 25	719	635	12 56	84	218	1	76·9
2	22 4	540	513	0 1	27	2 15	11·7	1·7	4 11	10·0	0 1	667	627	2 33	40	41	0	76·8
3 Q	15 3	535	520	23 59	15	13 36	9·1	4·9	4 40	4·2	0 30	650	634	20 20	16	8	0	76·9
4	14 8	532	515	10 24	17	12 20	8·2	4·1	22 22	4·1	1 16	645	625	9 56	20	10	0	76·7
5	13 10	536	522	23 15	14	11 28	8·0	3·5	1 20	4·5	23 20	643	625	9 15	18	9	0	76·4
6	6 4	544	518	0 23	26	12 27	8·9	2·7	0 35	6·2	15 0	644	631	9 20	13	15	0	75·9
7 Q	7 17	539	527	22 28	**12**	11 35	8·0	3·9	22 56	4·1	17 36	641	628	23 8	13	6	0	75·2
8 Q	6 10	537	525	1 32	**12**	12 0	8·0	4·5	0 10	**3·5**	16 57	636	626	23 55	**10**	5	0	75·1
9	23 6	554	485	23 42	69	12 55	14·2	−16·1	23 56	30·3	23 24	698	584	2 41	114	341	1	75·0
10 D	19 38	559	493	4 49	66	8 10	10·4	−15·3	0 1	25·7	0 0	682	606	20 15	76	220	1	75·0
11	15 7	526	504	21 0	22	24 0	13·1	−1·6	22 46	14·7	21 4	648	612	15 2	36	56	1	76·1
12	16 26	529	508	0 54	21	0 1	13·1	−1·8	23 24	14·9	23 32	637	600	0 20	37	58	1	77·0
13	21 55	553	514	2 5	39	9 54	9·1	1·2	21 47	7·9	23 15	641	618	4 50	23	31	0	76·5
14	13 30	537	520	23 41	17	12 37	8·9	0·2	23 52	8·7	23 44	642	632	4 30	10	18	0	75·3
15	10 45	538	510	0 55	28	11 7	10·9	0·1	2 24	10·8	0 25	646	622	7 30	24	41	1	75·0
16 D	17 56	**571**	482	22 56	89	11 41	15·3	**−25·6**	17 48	**40·9**	17 38	713	538	23 58	175	685	1	75·5
17 D	18 43	554	467	12 24	87	13 28	16·8	−18·1	18 30	34·9	15 36	**739**	539	0 0	**200**	695	1	76·0
18 D	19 7	**571**	465	9 0	106	9 52	**18·8**	−19·4	18 58	38·2	17 7	714	604	0 27	110	496	1	75·8
19	23 55	557	497	10 30	60	0 7	10·5	−8·1	20 17	18·6	20 26	663	597	24 0	66	142	1	75·1
20	23 8	567	495	17 54	72	0 7	10·5	−3·6	23 1	14·1	17 55	696	597	0 12	99	186	1	74·5
21	7 5	542	511	18 45	31	9 25	9·7	−0·5	21 20	10·2	18 55	653	621	22 44	32	38	0	75·5
22	7 3	540	505	13 26	35	13 15	8·4	2·0	22 49	6·4	4 4	631	616	13 0	15	22	0	75·2
23	0 22	539	512	15 45	27	0 15	10·1	0·4	22 30	9·7	18 20	631	597	0 30	34	36	0	75·9
24 Q	20 0	534	518	0 50	16	13 40	7·4	3·7	8 17	3·7	17 18	624	611	13 43	13	7	0	76·4
25 D	18 8	541	449	23 12	92	18 20	8·6	−16·3	22 10	24·9	19 55	679	535	23 57	144	402	1	76·3
26	17 44	532	**389**	1 4	**143**	8 5	12·1	−11·6	0 32	23·7	18 54	651	**530**	0 31	121	451	1	76·1
27	20 53	533	493	23 0	40	16 9	11·3	−8·0	22 44	19·3	19 7	668	630	9 18	38	98	1	75·9
28	5 50	539	498	2 1	41	23 34	13·9	−3·9	3 13	17·8	22 4	655	573	2 58	82	140	1	75·3
29	9 50	538	499	14 18	39	13 12	15·6	−1·0	17 15	16·6	14 33	671	596	0 0	75	120	1	75·0
30 Q	5 55	536	516	11 27	20	13 12	7·9	4·2	21 30	3·7	11 40	648	629	5 55	19	10	0	75·0
31	23 18	554	515	19 0	39	13 47	8·1	−12·8	19 23	20·9	19 23	658	613	23 25	45	113	1	74·6
Mean	—	544	500	—	44	—	10·9	−4·6	—	15·5	—	662	604	—	58	152	0·55	75·7
No. of Days used.	—	31	31	—	31	—	31	31	—	31	—	31	31	—	31	31	31	31

§ For explanation *see* p. 32. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

9. Lerwick. (H.) 14,000 γ (·14 C.G.S. unit) + **February, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	535	532	526	528	532	532	537	540	538	535	531	527	525	526	531	533	533	532	534	535	529	527	516	513	509	530
2	509	498	500	519	520	526	537	535	535	524	517	524	524	523	531	531	529	528	529	532	534	532	529	525	529	525
3	529	529	526	527	514	541	546	537	534	536	528	525	523	525	529	532	528	529	530	530	527	529	531	531	529	530
4	529	529	530	530	526	526	537	539	525	510	515	519	521	527	527	528	528	531	531	533	534	541	520	519	526	527
5	527	533	532	526	527	532	533	534	532	528	523	521	524	530	533	536	535	536	535	536	538	531	525	530	529	531
6 Q	529	528	527	529	532	527	533	533	530	529	527	526	526	529	532	536	539	539	535	535	534	529	527	528	534	531
7	534	532	531	532	533	540	543	538	533	527	514	515	526	533	536	539	539	539	541	541	540	540	539	525	522	533
8	522	517	523	521	526	529	532	534	530	530	535	532	533	530	531	530	530	533	535	535	533	533	533	526	527	530
9	527	527	530	531	533	533	533	533	529	526	532	533	535	534	529	537	537	533	532	533	535	531	530	530	528	532
10 Q	528	529	528	526	529	530	531	533	534	532	531	532	530	532	533	535	533	534	536	537	538	536	535	534	532	532
11	531	529	529	528	528	529	533	535	530	525	525	524	525	527	531	532	527	532	535	532	523	525	524	526	529	529
12 Q	528	528	528	528	530	530	531	533	532	530	528	529	529	528	528	531	530	532	532	533	533	536	533	535	536	531
13 D	535	533	527	525	533	539	538	535	542	550	553	556	559	536	533	535	529	537	543	547	525	488	473	511	515	532
14 D	514	517	484	508	479	507	536	534	530	528	517	500	525	520	505	532	533	526	528	532	529	530	528	481	516	518
15 D	515	530	517	512	514	513	519	523	520	492	509	505	504	519	531	516	527	532	523	530	532	531	520	520	509	519
16	509	494	530	530	522	524	523	530	527	522	522	520	520	522	524	523	527	526	528	528	529	531	532	530	529	524
17	528	526	525	525	527	529	530	530	531	528	520	512	516	516	521	527	528	529	527	527	533	533	534	540	530	527
18	529	529	526	525	525	526	530	526	524	520	515	509	516	520	528	528	527	528	520	526	530	531	530	530	534	525
19	534	529	528	528	529	530	530	530	529	525	520	516	517	523	526	529	529	528	518	517	524	524	526	529	530	526
20 Q	530	531	522	517	522	527	526	523	523	522	514	511	513	517	520	522	524	527	529	531	528	526	526	525	525	523
21 Q	524	522	522	523	524	524	522	521	519	513	507	510	514	518	522	522	525	524	524	527	527	525	524	523	526	521
22	526	523	523	524	524	524	523	523	521	517	516	513	512	519	521	520	527	532	531	525	524	527	525	529	525	523
23	524	526	526	523	523	523	524	527	524	518	516	512	512	509	515	522	522	524	526	532	532	532	532	526	518	523
24 D	518	522	512	530	527	530	506	532	519	512	517	510	490	508	533	566	666	647	778	823	684	555	500	499	511	**562**
25 D	511	515	505	506	506	508	511	511	508	506	504	505	505	512	520	526	540	558	539	517	526	542	524	486	360	513
26	360	446	500	475	511	515	517	518	508	506	503	499	496	497	518	536	513	520	521	520	521	517	542	515	510	**506**
27	510	509	515	520	514	516	520	518	499	508	506	501	487	501	498	512	517	525	522	524	536	515	519	527	521	514
28	521	518	518	509	518	523	525	518	515	508	509	509	506	506	510	512	516	523	520	522	518	521	520	519	520	516
Mean	518	521	521	522	522	526	529	529	526	522	520	**518**	518	521	525	530	533	535	539	**541**	536	529	525	522	518	526

MAGNETIC DECLINATION (WEST).

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

10. Lerwick. (D.) 13° + **February, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	61·1	63·4	63·2	64·0	64·4	65·8	66·5	65·2	65·4	64·6	64·4	65·0	65·8	65·8	66·1	66·3	66·1	65·8	65·9	66·3	64·6	59·6	63·2	58·0	62·5	64·5
2	62·5	57·8	56·9	61·7	62·9	64·0	63·0	63·2	64·8	66·1	64·6	66·3	67·9	68·5	67·3	68·3	68·3	68·1	66·7	65·8	65·0	64·8	59·0	62·7	64·8	64·5
3	64·8	64·2	65·9	61·3	64·2	64·2	63·8	61·9	63·6	66·1	65·9	67·3	67·1	67·5	67·9	67·7	67·3	66·7	66·5	66·5	65·2	64·0	64·2	65·0	65·2	65·4
4	65·2	65·8	65·8	64·6	64·2	65·2	63·6	65·4	65·9	64·4	69·2	70·6	68·3	68·3	67·9	66·5	66·5	67·3	67·7	66·3	65·8	68·2	56·1	61·5	64·4	65·8
5	64·4	64·4	63·4	57·8	60·2	61·1	63·6	64·6	64·6	65·2	66·1	66·9	67·1	67·3	66·7	66·1	65·6	65·6	65·6	65·0	65·4	61·5	62·7	63·2	62·5	64·3
6 Q	62·5	63·6	64·2	64·2	64·0	63·6	62·9	62·9	64·0	65·2	65·9	66·7	67·3	67·5	67·1	66·3	65·9	66·3	66·1	66·3	66·3	65·2	64·8	65·6	65·0	65·2
7	65·0	64·6	64·4	64·8	64·4	63·6	63·2	63·8	64·4	65·0	66·7	69·8	71·2	71·3	69·8	69·4	67·1	66·5	66·5	66·1	65·8	65·4	60·2	59·4	59·6	65·7
8	59·6	59·2	58·6	58·4	59·4	61·3	63·2	63·4	64·2	65·2	66·7	67·1	68·6	66·9	66·5	66·1	65·9	65·8	65·8	65·4	65·0	64·0	61·7	62·1	62·9	63·8
9	62·9	64·0	63·8	64·8	63·8	64·0	64·0	64·2	65·4	65·9	67·5	67·9	68·5	68·1	68·1	67·1	67·7	65·6	65·9	66·1	65·2	63·6	61·5	63·8	63·2	65·4
10 Q	63·2	64·0	60·9	61·5	62·7	62·5	62·9	64·6	64·8	65·6	66·3	68·3	68·6	67·5	67·9	67·7	66·5	66·3	66·5	66·3	65·8	65·2	64·6	64·6	64·8	65·2
11	64·8	64·8	64·4	64·0	64·0	63·8	63·0	63·2	63·8	63·4	64·0	65·4	67·1	67·9	69·6	69·2	67·3	66·7	66·7	64·4	65·0	65·8	65·8	64·6	64·8	65·4
12 Q	64·8	64·6	64·4	64·2	64·0	64·0	64·2	64·0	64·0	64·4	65·2	66·3	67·1	67·7	68·3	67·9	67·9	66·5	65·9	64·6	65·6	65·0	64·8	64·4	62·9	65·4
13 D	62·9	61·5	60·3	64·6	60·7	59·6	61·3	66·9	67·1	66·3	66·5	68·1	70·8	70·8	69·4	70·6	70·6	68·6	62·5	63·2	59·2	58·6	46·1	56·1	61·7	63·8
14 D	61·7	68·3	64·0	60·5	65·6	67·9	69·0	66·5	65·6	65·9	65·9	65·8	66·3	70·2	64·0	65·6	67·7	60·2	63·8	56·7	64·0	58·4	58·8	68·6	59·8	64·6
15 D	59·8	60·9	64·4	65·6	65·8	65·2	66·3	65·0	66·7	67·1	66·3	69·2	65·0	67·7	67·3	62·1	64·4	59·6	60·7	55·9	61·1	60·5	60·5	62·5	65·4	63·9
16	65·4	69·2	65·4	63·6	65·4	65·4	65·2	65·2	65·0	64·0	65·2	66·5	66·9	67·7	68·3	66·9	65·9	65·8	64·8	64·6	64·4	64·4	64·4	64·2	64·0	65·5
17	64·0	64·0	64·2	64·4	64·6	64·2	64·2	64·8	65·4	65·6	66·3	67·1	68·8	68·5	68·6	67·5	66·7	65·6	62·5	64·2	64·8	63·2	64·0	64·0	64·0	65·3
18	64·0	65·4	65·4	63·4	64·2	64·2	63·8	63·4	64·2	64·6	65·0	65·2	66·1	67·3	68·3	66·7	65·9	65·2	62·9	64·8	65·2	64·8	64·4	64·4	62·9	64·9
19	62·9	63·8	64·2	63·8	64·0	64·0	64·0	64·4	64·4	64·8	65·2	66·5	68·3	69·0	68·6	67·7	66·5	66·7	64·8	64·0	64·6	64·0	64·0	64·0	64·2	65·2
20 Q	64·2	62·7	60·7	61·3	63·2	63·0	63·2	63·6	63·8	64·8	65·0	66·3	66·9	69·0	68·8	68·1	67·3	66·7	66·3	65·9	65·2	64·2	64·2	64·0	63·4	64·9
21 Q	63·4	64·2	64·4	64·2	64·0	63·6	63·6	63·2	63·2	63·6	63·8	65·2	67·1	68·6	69·4	68·1	66·3	65·8	65·0	64·8	64·6	64·4	62·3	63·6	63·8	64·9
22	63·8	64·2	64·0	63·8	63·4	63·4	63·2	63·2	63·6	64·0	64·6	65·8	68·3	69·6	69·0	67·1	65·9	65·9	65·6	62·5	65·2	64·2	64·0	64·2	63·0	64·9
23	63·0	65·0	62·7	62·5	62·7	62·3	62·9	62·1	62·7	64·2	65·9	67·3	70·2	71·3	70·8	68·1	66·1	65·4	64·8	64·8	64·6	64·4	61·9	57·5	61·9	64·7
24 D	61·9	57·5	63·4	60·9	58·8	58·0	65·9	58·6	60·3	60·2	64·2	67·7	69·4	76·4	81·2	80·8	87·8	78·3	82·7	90·6	72·7	62·1	54·2	57·6	61·7	**68·0**
25 D	61·7	65·6	64·6	62·9	62·1	61·7	61·7	61·9	62·3	62·5	63·4	65·6	67·9	70·2	72·3	73·1	74·8	75·2	70·6	71·9	68·1	59·0	58·2	56·5	48·0	65·3
26	48·0	46·8	56·5	60·0	60·0	62·1	63·4	65·0	64·8	64·0	64·2	66·5	68·8	68·8	71·3	70·4	68·1	68·1	66·3	65·2	64·8	62·9	56·7	59·6	59·8	**63·3**
27	59·8	60·5	61·3	56·9	61·5	62·9	62·1	63·0	63·8	65·6	65·6	68·5	69·8	70·0	70·4	69·8	65·8	63·0	64·4	57·8	53·2	63·2	63·2	62·9	62·9	63·6
28	62·9	63·0	62·3	64·2	63·2	62·3	62·3	62·7	64·4	63·6	64·0	64·8	65·4	66·1	67·3	66·7	65·9	64·8	63·2	64·0	63·4	63·8	63·2	62·9	62·5	64·0
Mean†	62·5	63·0	63·0	62·6	63·1	63·3	63·8	63·8	64·4	64·7	65·5	66·9	67·9	68·8	**68·9**	68·1	67·8	66·5	65·9	65·4	64·6	63·4	**61·4**	62·4	62·6	64·9

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

11. Lerwick. (V.) 46,000 γ (·46 C.G.S. unit) + **February, 1931.**

Hour. G.M.T. / Day.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	615	616	621	623	620	620	614	612	612	616	621	624	623	623	623	623	624	622	620	620	628	627	634	634	611	622
2	611	526	571	599	619	613	610	617	616	621	627	626	628	632	628	631	632	634	631	628	625	625	629	630	628	617
3	628	626	621	593	615	578	573	587	598	602	613	617	622	625	625	629	634	634	633	631	634	629	624	622	621	616
4	621	623	623	623	624	619	614	611	613	617	615	617	622	624	626	631	634	633	632	630	630	633	635	631	624	624
5	624	617	592	595	613	616	618	617	616	617	620	621	617	614	618	616	620	622	622	620	620	624	625	616	616	617
6 Q	616	618	619	620	620	622	618	616	615	612	611	614	615	614	614	615	616	619	622	621	622	625	625	617	604	617
7	604	610	614	612	608	608	609	612	614	613	618	615	611	611	613	616	620	624	624	624	624	624	628	632	622	617
8	622	622	628	631	629	627	623	621	624	620	619	621	621	622	623	626	630	630	630	631	631	632	632	630	625	626
9	625	623	609	611	618	622	622	621	620	620	616	617	618	619	619	620	622	624	623	619	619	619	620	615	614	619
10 Q	614	605	601	602	601	604	604	600	601	601	603	602	603	602	601	601	604	605	605	607	608	610	610	608	607	**604**
11	607	606	606	605	605	605	604	604	607	609	610	609	610	610	612	618	618	614	617	622	630	632	632	631	626	614
12 Q	626	623	623	621	620	620	620	620	620	621	622	621	623	622	623	625	628	628	630	632	631	630	631	630	623	625
13 D	623	613	616	614	601	607	609	609	603	598	601	600	603	615	621	625	636	652	678	706	678	582	457	561	595	612
14 D	595	571	540	544	558	560	569	590	605	611	627	643	644	645	669	657	657	664	647	643	631	634	616	527	547	609
15 D	547	589	605	598	595	596	596	609	611	625	629	633	641	647	656	689	701	680	668	659	617	600	579	590	587	624
16	587	539	568	603	611	612	618	619	621	622	624	626	628	630	637	637	635	635	633	631	629	626	626	627	627	618
17	627	628	629	628	628	626	624	622	620	620	626	632	632	635	637	637	639	645	646	640	632	630	626	617	616	630
18	616	615	623	626	626	626	624	624	623	626	631	634	630	628	629	636	637	641	646	640	633	630	629	627	624	629
19	624	626	628	630	629	627	628	624	621	620	623	619	617	618	624	630	631	634	646	649	637	631	628	623	617	628
20 Q	617	610	608	620	621	622	622	622	620	618	621	621	621	620	621	623	628	626	624	624	624	624	620	620	618	621
21 Q	618	618	619	618	619	619	620	620	619	621	624	623	619	620	622	626	628	628	628	626	625	625	625	623	618	622
22	618	619	620	621	620	621	621	620	619	619	621	622	620	618	621	627	626	625	627	636	634	630	628	622	621	623
23	621	615	614	619	621	623	622	620	621	622	622	622	621	617	617	622	628	630	631	629	631	630	632	635	632	624
24 D	632	614	601	579	599	597	540	536	579	606	614	619	639	647	651	677	781	825	844	768	777	730	657	646	650	657
25 D	650	654	656	654	648	645	641	640	642	639	638	636	634	636	646	654	675	720	753	724	707	738	682	630	488	**661**
26	488	507	569	593	613	628	623	619	629	633	638	637	639	634	637	658	675	653	638	636	633	638	602	618	621	621
27	621	621	616	618	622	623	623	622	629	625	631	632	641	645	638	637	643	643	641	640	628	625	624	620	617	629
28	617	620	619	620	616	619	619	620	621	621	626	627	627	628	628	627	627	627	633	631	633	634	631	633	629	625
Mean	611	**606**	609	611	615	614	612	613	616	618	621	623	624	625	628	633	640	643	**645**	642	638	633	621	618	612	623

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS:

12. Lerwick. MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **February, 1931.**

Day.	Terrestrial Magnetic Elements. Horizontal Force. Maximum 14,000 γ +		Minimum 14,000 γ +		Range.	Declination. Maximum 14° +		Minimum 14° +		Range.	Vertical Force. Maximum 46,000 γ +		Minimum 46,000 γ +		Range.	Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2).	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ			°A.
1	6 36	547	502	23 51	45	5 36	7·9	−5·2	22 52	13·1	22 35	640	608	6 37	32	61	1	74·9
2	22 4	544	471	1 43	73	15 51	8·8	−9·9	1 34	18·7	21 47	637	514	1 10	123	267	1	75·0
3	6 9	551	504	4 7	47	2 16	12·7	−1·6	3 30	14·3	16 27	637	568	6 12	69	106	1	75·0
4	21 0	563	507	9 0	56	10 45	11·2	−11·4	21 12	22·6	21 5	642	611	7 30	31	133	1	75·2
5	19 37	541	518	10 54	23	12 2	7·5	−6·6	21 25	14·1	21 40	632	584	2 20	48	64	1	75·4
6 Q	16 33	542	521	22 4	21	23 16	7·9	1·9	0 1	**6·0**	22 5	628	600	23 47	28	19	0	75·8
7	14 32	546	509	10 15	37	12 10	12·7	−3·7	23 1	16·4	22 55	635	602	0 0	33	72	1	75·7
8	22 15	539	513	1 28	26	11 50	9·8	−3·7	2 12	13·5	21 42	637	618	9 55	19	43	0	75·6
9	15 24	541	523	0 58	18	12 9	9·2	−1·2	21 28	10·4	17 22	627	607	1 48	20	27	0	76·0
10 Q	20 15	540	519	2 43	21	12 0	9·4	0·0	2 30	9·4	0 17	612	597	13 25	**15**	23	0	76·8
11	19 12	541	517	20 20	24	14 48	9·8	0·7	19 34	9·1	22 25	636	604	6 55	32	30	0	76·0
12 Q	23 15	539	527	0 8	**12**	13 34	8·8	2·5	18 35	6·3	19 55	634	619	6 52	**15**	11	0	76·7
13 D	11 45	569	417	21 54	152	11 50	14·6	**−35·7**	21 36	50·3	19 34	729	**389**	21 45	340	1841	2	76·1
14 D	22 37	553	427	23 14	126	23 0	22·3	−10·5	22 32	32·8	14 8	681	487	23 3	194	728	1	75·5
15 D	20 13	559	480	9 5	79	14 29	11·2	−12·0	19 4	23·2	16 15	716	548	0 0	168	441	1	75·1
16	6 55	536	443	0 36	93	0 31	15·6	1·3	0 17	14·3	13 57	637	522	0 57	115	255	1	74·8
17	23 14	551	509	10 48	42	12 7	9·6	−3·1	17 38	12·7	17 43	656	606	23 24	50	72	1	74·7
18	14 18	539	502	10 36	37	14 18	10·0	0·7	17 52	9·3	17 45	650	608	0 40	42	47	0	74·9
19	23 42	538	509	18 42	29	12 20	9·6	1·9	18 26	7·7	18 53	656	614	23 50	42	37	0	75·1
20 Q	0 30	532	509	10 53	23	13 20	10·2	−2·2	2 19	12·4	16 16	629	604	1 40	25	39	0	75·5
21 Q	23 43	531	504	10 0	27	14 2	10·0	0·7	8 34	9·3	17 15	629	614	23 51	**15**	25	0	75·8
22	17 17	537	509	11 34	28	13 0	10·0	−2·0	19 16	12·0	19 34	643	616	0 0	27	41	0	75·5
23	21 46	536	502	12 55	34	13 14	12·3	−4·9	22 30	17·2	22 10	635	611	1 30	24	71	1	74·5
24 D	18 35	**871**	460	5 45	**411**	18 56	**46·9**	−13·2	21 35	**60·1**	17 48	**876**	472	6 23	**404**	3967	2	74·5
25 D	17 30	594	309	23 49	285	16 50	19·5	−32·1	23 56	51·6	17 35	776	398	23 48	378	2716	2	74·3
26	23 37	586	**306**	0 15	280	14 24	13·7	−29·6	0 28	43·3	15 49	688	405	0 5	283	1920	1	74·5
27	19 37	558	479	12 16	79	13 35	11·5	−18·6	19 33	30·1	16 25	649	608	2 22	41	241	1	74·7
28	21 22	536	503	9 33	33	14 13	8·5	0·9	2 35	7·6	20 27	640	614	3 43	26	28	0	74·6
Mean	—	559	482	—	77	—	12·5	−7·0	—	19·6	—	660	566	—	94	476	0·68	75·3
No. of Days used.	—	28	28	—	28	—	28	28	—	28	—	28	28	—	28	28	28	28

§ For explanation see p. 32. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

13. Lerwick. (H.) 14,000 γ (·14 C.G.S. unit) + **March, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	521	518	519	515	520	519	522	526	522	516	504	505	518	516	513	513	519	522	525	529	530	526	524	527	527	520
2	527	526	524	524	524	524	525	528	527	524	523	523	511	519	530	540	526	522	519	516	520	521	534	524	525	524
3	525	525	525	523	488	521	520	528	509	502	511	505	504	513	521	519	527	528	521	524	531	533	531	525	531	519
4	531	525	524	524	527	530	528	525	525	519	513	509	507	513	519	525	531	527	534	534	535	537	533	542	533	526
5	533	530	529	530	530	530	530	530	527	522	518	518	518	518	527	533	536	529	534	533	535	537	537	537	534	529
6 Q	533	530	530	529	533	533	533	530	529	511	505	503	498	500	512	523	527	527	532	534	530	529	533	533	533	524
7	533	531	532	532	533	534	533	535	528	510	508	505	503	503	508	518	530	527	532	536	540	543	541	539	546	527
8	545	530	535	529	531	532	534	540	532	521	513	502	503	513	517	528	540	541	546	537	535	525	531	532	526	528
9	526	517	527	521	525	529	530	539	531	523	513	504	497	511	517	524	534	537	529	523	528	539	537	529	532	525
10	531	528	528	525	527	528	530	529	521	512	505	501	503	512	522	540	552	515	530	543	539	537	537	531	531	526
11 Q	531	527	526	529	525	526	528	527	528	515	507	506	503	503	512	521	527	527	531	533	534	534	533	532	537	524
12 D	536	538	528	529	532	533	532	527	520	509	499	499	498	505	514	517	521	532	545	530	543	476	472	511	506	518
13 D	506	491	496	517	509	515	519	519	521	511	502	497	490	499	514	526	535	515	533	562	531	512	473	479	470	511
14 D	470	455	503	514	513	523	527	514	517	491	493	488	495	498	509	517	529	526	519	522	527	530	529	531	520	511
15	520	530	517	523	523	526	525	527	522	513	509	502	502	496	514	524	529	525	532	532	533	533	533	532	541	522
16	540	532	523	521	523	528	528	522	513	508	500	483	481	490	502	513	521	528	531	534	534	533	532	532	530	519
17	530	528	528	529	526	528	531	531	523	511	499	490	487	492	498	507	518	520	528	528	523	528	530	530	529	518
18 Q	529	529	528	528	528	529	529	527	520	511	499	488	494	502	508	517	523	528	528	529	529	530	529	529	528	520
19 Q	528	528	527	526	528	529	529	525	516	504	493	487	489	498	507	517	519	525	528	526	528	529	529	530	529	519
20	530	529	530	529	530	531	531	528	521	508	500	491	493	495	507	521	525	534	539	544	545	541	537	518	516	523
21 D	516	517	521	530	529	533	530	529	517	504	493	484	494	486	535	533	521	519	526	526	527	514	517	506	496	517
22	496	504	478	512	514	511	512	514	504	496	490	487	488	496	508	517	523	523	527	526	527	522	513	475	499	507
23	500	512	517	515	492	512	520	516	506	497	495	494	494	500	508	513	520	523	523	531	535	519	517	516	520	512
24	521	516	505	511	516	519	523	514	513	501	495	497	503	501	506	520	521	531	531	529	526	526	525	526	524	516
25	524	523	527	529	523	520	523	522	508	497	496	494	499	514	514	526	529	533	543	525	517	504	519	533	513	518
26 D	514	480	511	520	525	521	511	515	523	518	514	511	499	515	506	512	527	523	530	533	533	532	532	530	538	519
27	538	529	521	530	527	512	522	533	530	522	508	498	501	506	517	527	525	531	538	534	533	530	535	527	522	524
28	522	510	530	525	518	530	530	525	510	509	507	506	517	525	530	535	539	538	532	536	541	540	537	538	532	526
29	532	523	529	533	530	529	542	539	528	522	517	509	509	516	526	532	537	535	539	541	544	532	539	535	534	530
30 Q	534	534	533	532	535	535	536	530	523	518	512	508	511	516	528	536	538	536	537	538	537	538	539	540	538	530
31	537	537	537	538	541	541	541	538	530	517	511	504	507	519	510	531	538	535	540	541	541	541	540	541	540	532
Mean	525	520	522	525	523	526	528	527	521	511	505	500	501	506	515	523	529	528	532	533	533	528	527	526	525	521

MAGNETIC DECLINATION (WEST).

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

14. Lerwick. (D.) 13° + **March, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	62·5	63·2	62·5	61·7	63·8	63·0	62·1	62·3	63·0	63·8	66·3	65·9	68·3	70·4	69·2	68·5	66·7	65·8	65·0	65·0	65·2	64·6	63·8	63·4	63·0	64·8
2	63·0	63·6	63·0	62·9	62·7	62·3	63·0	63·4	63·8	63·4	65·6	67·7	68·1	68·1	69·4	71·3	71·0	65·6	68·5	67·9	66·1	64·2	62·5	64·4	64·0	65·5
3	64·0	64·6	64·2	61·9	71·0	63·2	59·0	60·0	61·9	65·2	67·5	68·3	69·0	69·6	71·2	69·8	67·5	65·2	61·9	64·2	62·5	62·9	62·3	60·5	60·9	64·8
4	60·9	62·1	62·1	63·0	61·5	61·1	61·3	62·3	62·1	62·7	63·8	66·1	67·5	68·1	67·3	65·9	65·0	63·8	64·6	64·8	64·2	64·8	65·0	61·1	61·5	63·8
5	61·5	62·3	63·4	62·9	62·1	62·9	62·5	62·3	62·3	62·3	63·8	67·9	70·8	72·7	73·3	70·2	68·1	65·0	64·0	59·0	60·9	62·9	63·2	63·4	63·4	64·6
6 Q	63·5	63·7	63·9	63·7	63·0	62·6	62·0	61·6	62·2	63·7	66·0	67·8	69·5	70·1	68·9	67·0	65·3	63·7	63·5	63·3	62·4	61·8	61·8	63·0	63·9	64·3
7	63·9	63·7	63·9	63·7	63·3	63·0	62·2	61·6	61·6	62·6	63·3	65·5	68·9	69·7	70·3	68·9	66·8	65·3	64·3	64·9	64·3	64·5	63·5	62·4	61·8	64·6
8	61·9	62·5	62·5	61·7	62·5	61·5	61·7	61·3	61·3	61·5	63·8	65·4	67·7	71·0	70·2	69·0	67·7	67·1	67·5	66·3	62·5	64·0	63·6	60·9	67·3	64·5
9	67·4	58·9	61·6	61·0	63·0	60·8	60·6	60·5	60·6	60·6	62·6	65·7	69·3	71·3	71·5	69·5	68·0	65·3	64·3	64·7	63·5	61·0	61·8	62·8	63·2	63·9
10	63·2	62·2	62·6	62·6	63·2	63·0	62·8	62·2	61·8	62·6	64·3	66·4	67·8	69·3	69·1	69·9	71·8	68·9	66·4	66·4	65·7	64·9	58·7	59·9	61·0	64·8
11 Q	61·0	63·0	64·1	63·2	63·0	63·7	63·2	62·4	63·0	64·3	65·5	66·6	67·6	68·0	67·6	66·2	64·9	64·1	64·7	63·9	64·9	64·5	64·3	63·7	61·8	64·5
12 D	61·9	61·3	61·7	61·5	62·1	62·3	61·9	61·9	61·7	62·1	64·6	67·9	69·6	70·0	70·6	70·0	66·7	66·7	67·3	67·1	62·9	52·6	47·4	61·3	58·2	63·4
13 D	58·2	70·6	66·7	63·4	65·4	65·4	65·6	63·3	63·3	64·2	66·3	68·1	69·8	68·7	69·0	67·7	66·5	64·2	63·6	41·9	49·4	57·9	63·3	55·0	52·4	63·1
14 D	52·5	62·4	60·8	59·3	61·0	62·4	63·5	61·6	61·0	62·4	64·1	66·8	68·4	69·9	67·0	66·3	65·9	64·3	62·4	63·9	64·7	63·7	62·0	61·8	67·4	63·6
15	67·4	64·7	62·2	62·2	62·2	62·8	62·8	62·8	62·6	63·4	63·9	65·5	68·2	67·4	67·6	67·6	66·1	63·0	64·3	64·7	64·5	64·1	63·9	64·1	63·5	64·4
16	63·5	62·4	62·0	62·4	63·9	63·4	62·0	61·6	62·2	62·4	64·3	67·6	69·5	69·9	69·9	68·8	66·4	65·1	64·3	64·1	64·1	63·9	63·9	63·9	63·5	64·6
17	63·5	63·9	64·1	64·5	63·9	62·8	62·2	61·6	59·7	58·9	60·3	63·4	66·8	69·3	69·5	69·1	67·0	65·1	64·3	62·6	61·4	62·8	63·9	64·5	64·3	64·0
18 Q	64·3	65·1	64·3	64·3	63·5	63·2	62·1	61·4	60·7	61·2	63·4	66·4	68·4	69·3	69·1	68·0	66·1	64·3	64·1	64·1	63·9	63·9	64·1	64·3	64·1	64·6
19 Q	64·1	64·5	64·3	64·5	64·5	63·0	61·8	60·7	59·5	59·9	62·4	65·7	69·0	70·7	70·5	69·1	66·3	64·5	64·1	62·2	62·0	62·8	63·4	64·3	64·1	64·3
20	64·0	64·0	65·4	62·9	63·1	62·5	61·9	61·5	60·6	60·2	62·5	65·0	68·9	69·8	69·6	69·2	66·7	66·5	65·6	65·8	66·7	65·6	65·2	66·0	56·1	64·8
21 D	56·1	53·6	57·1	55·3	53·4	55·2	59·4	59·8	60·0	61·1	64·4	67·1	73·1	76·2	76·4	72·7	69·4	66·2	65·6	65·2	66·0	50·3	54·8	54·8	54·4	62·2
22	54·4	61·1	63·8	59·0	58·6	61·3	63·1	60·9	61·3	62·3	64·6	66·7	68·5	69·2	69·0	68·1	66·3	65·0	64·6	65·0	64·4	61·7	63·8	57·5	56·3	63·4
23	56·3	57·5	59·0	58·8	61·7	63·3	60·2	60·6	60·9	61·7	63·4	66·2	67·3	68·5	68·5	66·7	65·0	64·2	64·0	64·4	64·4	65·8	65·4	61·7	60·4	63·2
24	60·3	59·7	60·5	57·9	57·2	57·0	57·8	58·3	59·1	62·0	64·5	66·8	70·3	70·9	70·7	68·8	66·1	65·1	64·1	63·2	63·7	63·2	63·2	63·0	62·0	63·1
25	62·0	60·3	58·9	59·1	59·3	57·8	57·0	59·5	59·5	64·3	65·1	67·6	69·8	69·9	67·8	66·6	65·5	64·5	63·7	61·4	63·3	58·3	53·9	60·6	59·3	62·3
26 D	59·3	57·9	48·7	57·4	59·7	58·9	59·1	62·4	61·4	61·6	63·3	67·0	67·8	71·5	70·5	66·2	65·9	64·7	64·3	64·1	63·9	63·7	63·0	62·2	60·8	62·7
27	60·7	63·6	62·7	60·7	60·2	61·7	62·5	61·1	60·5	61·7	64·2	66·0	69·2	68·5	68·1	66·7	65·4	64·4	64·2	63·4	63·6	59·4	60·5	63·6	62·3	63·5
28	62·2	66·8	61·8	58·9	63·5	62·0	60·6	60·4	61·4	62·2	63·9	65·1	66·6	67·8	67·2	65·5	64·7	64·7	64·9	64·5	59·9	62·2	61·6	62·2	62·8	63·4
29	62·8	61·4	60·1	61·8	59·3	61·8	60·3	60·6	61·8	61·2	61·0	64·1	65·7	66·8	67·0	65·7	65·3	63·7	63·1	61·4	61·8	61·4	63·1	62·8	62·6	62·7
30 Q	62·5	62·7	62·1	62·3	61·7	61·7	61·3	60·3	60·0	60·0	61·3	64·0	67·9	69·0	67·5	65·8	63·6	62·5	62·1	61·7	61·9	62·9	62·9	63·2	63·0	63·0
31	62·9	62·4	62·2	62·2	62·0	62·4	62·8	60·6	59·9	59·9	62·6	65·7	70·7	73·4	73·0	68·9	66·8	64·1	62·9	62·9	62·9	63·1	62·9	63·1	62·8	64·2
Mean	61·7	62·4	62·0	61·5	62·1	61·9	61·6	61·3	61·3	62·1	64·0	66·3	68·7	69·8	69·6	68·2	66·6	64·9	64·5	63·4	63·1	62·2	62·0	62·1	61·7	63·9

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

15. Lerwick. (V.) 46,000 γ (·46 C.G.S. unit) + **March, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	626	626	617	619	606	607	615	616	619	619	622	621	621	629	633	632	629	626	626	624	626	630	631	630	628	623
2	628	628	628	627	626	625	622	622	620	622	623	625	630	627	631	638	659	678	673	671	664	654	627	597	618	**635**
3	618	626	627	624	607	536	576	592	603	606	608	613	617	617	622	629	628	636	646	637	627	601	591	591	602	611
4	602	606	607	609	608	608	606	606	604	606	610	612	613	612	612	613	614	614	610	607	606	602	596	571	564	606
5	564	581	593	598	600	598	596	592	590	588	588	577	579	587	593	597	602	605	601	601	594	589	588	584	584	591
6 Q	584	585	587	589	589	589	587	586	582	585	584	587	592	587	588	593	596	596	596	597	597	597	589	583	582	589
7	582	584	585	587	589	589	589	588	589	589	584	584	587	589	589	590	593	601	600	599	595	592	591	589	577	590
8	577	569	568	586	594	596	597	596	600	601	601	598	594	591	592	595	599	604	608	616	633	622	609	599	553	597
9	553	555	576	583	576	576	586	590	595	595	599	599	600	603	606	612	612	616	622	624	615	599	590	591	589	595
10	589	588	589	592	595	597	598	601	603	603	601	592	590	590	589	595	612	640	617	600	600	599	598	591	584	599
11 Q	584	581	581	583	589	589	589	590	591	595	595	595	594	594	595	593	594	596	596	598	599	597	596	595	588	592
12 D	588	568	573	580	583	586	590	593	598	600	602	597	596	597	596	597	599	598	601	619	630	599	537	521	528	**588**
13 D	528	549	534	581	574	569	588	599	601	603	607	612	619	619	616	615	621	635	622	620	608	606	568	469	495	589
14 D	495	520	533	578	589	596	596	602	607	612	615	617	614	618	629	632	629	633	640	629	619	613	610	605	601	603
15	601	585	589	593	601	601	605	607	610	612	613	614	616	622	622	620	622	623	617	613	612	612	611	612	599	610
16	599	600	608	609	609	605	605	607	609	609	610	614	618	619	616	615	614	612	609	607	607	605	606	606	605	609
17	605	603	599	593	595	596	596	599	603	606	606	603	600	602	608	612	612	612	609	611	609	602	596	594	595	603
18 Q	595	595	595	596	597	597	597	595	595	592	594	596	593	595	597	598	601	599	598	596	596	595	594	594	596	596
19 Q	596	596	599	599	598	598	599	601	604	602	600	600	598	598	602	604	608	608	607	612	611	607	605	603	603	602
20	603	603	601	603	605	606	605	604	604	606	604	601	598	603	606	612	616	613	609	606	603	605	507	605	566	605
21 D	566	583	596	588	588	592	596	599	604	605	604	601	602	611	629	665	642	636	631	629	622	626	591	575	555	607
22	555	518	524	529	577	588	592	595	599	600	604	601	597	600	604	608	611	614	613	612	612	616	609	580	556	590
23	556	555	582	598	587	561	594	610	615	615	615	613	608	607	609	613	614	619	625	620	621	629	625	613	609	605
24	609	609	609	576	591	594	595	602	605	606	602	603	610	617	619	624	626	625	627	631	628	625	621	619	618	612
25	618	613	605	606	606	600	598	590	594	604	607	616	613	614	616	614	620	626	633	653	659	631	620	621	612	616
26 D	612	495	538	595	611	617	617	611	614	616	619	619	627	625	634	633	628	627	626	626	628	628	627	626	617	613
27	617	595	594	601	604	592	578	587	600	608	612	616	616	614	613	616	620	619	620	628	628	630	617	621	614	610
28	614	586	588	600	605	600	605	613	620	618	622	622	621	621	621	621	624	627	631	629	630	624	625	625	610	616
29	610	590	606	617	614	602	592	601	613	617	627	629	629	629	630	631	636	637	638	640	633	641	631	625	630	622
30 Q	630	631	631	629	627	626	625	629	629	627	625	621	617	618	619	623	624	626	624	625	626	623	622	622	623	625
31	623	623	622	620	618	615	613	614	615	618	614	610	607	611	621	621	628	632	628	624	621	617	618	620	621	619
Mean	591	**585**	590	596	599	595	598	601	604	606	607	607	607	609	612	615	617	**620**	619	619	618	613	605	596	591	605

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS:

16. Lerwick. MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **March, 1931.**

Day.	Terrestrial Magnetic Elements. Horizontal Force. Maximum 14,000 γ +		Minimum 14,000 γ +		Range.	Declination. Maximum 14° +		Minimum 14° +		Range.	Vertical Force. Maximum 46,000 γ +		Minimum 46,000 γ +		Range.	Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2).	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ			°A.
1	19 16	533	498	10 21	35	13 0	11·7	0·2	3 4	11·5	14 15	637	598	4 13	39	51	0	74·4
2	15 1	551	503	18 26	48	15 28	14·0	−1·8	22 2	15·8	16 46	**687**	591	22 43	96	160	1	74·0
3	20 46	549	465	4 4	84	4 10	16·9	−4·5	5 30	21·4	18 25	649	517	4 55	132	328	1	73·6
4	23 12	552	505	11 40	47	22 6	8·8	−2·2	22 35	11·0	16 31	618	555	23 29	63	84	1	73·1
5	16 16	543	507	12 5	36	13 24	14·0	−4·9	19 0	18·9	19 0	607	563	0 1	44	96	1	72·9
6 Q	22 20	536	486	12 25	50	11 55	10·7	0·3	20 24	10·4	20 40	601	580	23 50	21	49	0	73·5
7	20 50	550	494	12 22	56	14 10	11·3	−0·7	23 58	12·0	17 0	604	583	10 30	21	62	1	73·7
8	0 10	559	498	11 39	61	13 17	12·3	−2·7	23 18	15·0	20 0	644	555	23 59	89	156	1	73·5
9	21 3	548	489	12 10	59	14 19	13·2	−3·8	0 58	17·0	18 36	627	523	0 28	104	195	1	73·9
10	16 4	595	496	11 23	99	16 20	14·0	−5·9	22 2	19·9	16 47	647	582	24 0	65	211	1	74·4
11 Q	19 2	536	501	12 20	**35**	12 46	8·4	0·5	0 4	**7·9**	19 25	602	573	1 23	29	32	0	75·1
12 D	20 13	566	**360**	21 7	**206**	14 24	11·9	−25·9	21 10	37·8	20 32	661	499	21 30	162	943	1	75·0
13 D	19 25	**610**	427	22 32	183	1 20	**21·6**	**−32·8**	19 10	**54·4**	17 5	641	**440**	23 6	**201**	1268	1	74·6
14 D	22 45	547	434	1 14	113	13 12	11·1	−14·4	0 25	25·5	17 39	643	497	0 11	146	457	1	74·7
15	23 46	549	487	12 50	62	0 4	12·2	0·5	1 43	11·7	16 36	627	579	0 25	48	85	0	74·7
16	0 34	541	473	11 27	68	13 4	10·5	0·5	0 39	10·0	12 30	620	592	0 1	28	72	0	74·7
17	6 45	534	481	12 34	53	13 35	10·3	−1·5	9 10	11·8	15 15	614	591	3 5	23	58	0	74·9
18 Q	1 24	532	484	10 50	48	13 10	9·9	0·1	8 33	9·8	16 20	602	590	8 55	**12**	41	0	75·5
19 Q	18 24	533	486	11 13	47	13 25	11·3	−1·1	7 43	12·4	19 30	617	594	4 15	23	54	0	75·0
20	19 56	549	488	11 50	61	23 13	12·9	−5·8	23 59	18·7	16 25	623	550	23 45	73	153	1	76·3
21 D	14 19	565	479	12 32	86	13 38	18·1	−21·3	21 17	39·4	14 54	673	557	23 37	116	487	1	76·9
22	19 33	529	446	2 15	83	2 23	11·2	−9·3	22 58	20·5	21 38	619	501	2 37	118	284	1	77·5
23	19 52	550	483	4 5	67	22 47	9·0	−6·0	0 5	15·0	20 49	633	544	0 8	89	164	1	78·0
24	18 30	535	492	11 0	43	13 16	12·0	−4·6	5 4	16·6	19 10	634	564	2 56	70	116	1	78·1
25	17 55	551	489	10 55	62	12 55	10·5	−9·8	21 40	20·3	19 53	664	587	7 14	77	172	1	78·0
26 D	23 59	540	427	1 4	113	13 5	14·2	−13·8	1 40	28·0	14 27	638	457	1 4	181	595	1	78·0
27	0 20	545	490	10 35	55	11 58	10·6	−2·3	21 18	12·9	20 48	635	576	5 46	59	95	1	78·1
28	19 56	553	497	0 48	56	1 0	10·3	−4·2	19 52	14·5	20 26	634	564	1 23	70	118	1	77·6
29	19 43	558	503	11 3	55	14 15	8·4	−1·9	4 4	10·3	21 34	644	583	1 4	61	87	1	77·0
30 Q	22 55	542	506	11 10	36	12 45	9·6	−0·6	8 0	10·2	7 23	631	615	12 0	16	34	0	76·9
31	16 11	553	496	10 45	57	13 8	15·5	−0·7	8 45	16·2	16 40	635	604	11 30	31	90	1	77·2
Mean	—	549	480	—	70	—	12·1	5·8	—	18·0	—	633	558	—	74	219	0·71	75·5
No. of Days used	—	31	31	—	31	—	31	31	—	31	—	31	31	—	31	31	31	31

§ For explanation *see* p. 32. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

17. Lerwick (H.) 14,000 γ (·14 C.G.S. unit) + **April, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1 D	540	539	539	538	539	539	539	536	528	516	506	505	510	524	532	539	539	542	552	562	536	537	539	537	525	534
2	525	534	527	531	534	535	533	530	521	510	496	489	501	515	528	536	541	542	545	548	547	547	547	549	551	530
3 D	550	547	544	544	541	539	535	526	522	510	502	495	499	511	529	548	553	559	550	545	535	544	532	533	531	533
4	530	528	528	528	528	529	529	526	517	503	493	491	493	506	509	516	528	540	546	540	531	534	520	517	532	521
5	532	535	523	534	535	532	532	529	521	506	493	490	500	513	526	531	537	536	539	540	540	540	539	539	538	527
6 Q	537	537	537	537	537	537	537	535	527	516	505	502	501	505	509	519	531	543	548	548	546	545	545	545	545	531
7	544	541	539	539	538	539	540	538	530	518	508	501	500	513	524	529	536	543	548	548	550	547	548	543	544	534
8	543	543	540	540	540	539	540	540	534	524	513	501	499	505	522	530	535	540	549	552	551	546	549	552	546	**535**
9	545	540	534	533	540	540	539	534	525	515	505	504	498	516	517	532	499	546	553	556	559	557	555	558	548	533
10 D	547	537	526	483	522	536	535	533	512	498	497	494	496	504	516	528	541	545	556	542	538	529	514	509	540	522
11	539	533	529	528	529	529	528	519	501	491	496	485	490	513	515	521	528	538	547	544	533	533	534	533	532	522
12 Q	531	527	525	525	524	524	524	519	510	502	499	494	493	497	506	514	518	524	531	533	533	533	532	532	531	519
13 Q	530	527	526	524	524	524	525	522	515	508	502	500	499	506	513	525	515	523	532	535	534	532	532	532	532	521
14 Q	531	530	529	529	529	529	528	523	517	505	496	494	497	504	517	523	526	531	535	540	540	540	540	541	535	524
15	534	533	533	534	533	533	528	522	513	506	498	491	496	502	516	524	528	537	544	547	538	534	536	534	538	525
16	537	536	533	528	527	530	532	527	520	505	496	490	492	503	514	523	532	539	548	546	545	545	545	547	542	527
17	541	540	541	537	534	535	534	529	516	505	497	497	503	515	522	525	534	537	544	547	546	545	547	544	538	530
18	537	528	531	534	544	516	519	519	515	505	487	492	489	496	515	527	524	540	542	534	532	531	528	530	530	521
19 D	529	524	521	524	522	523	523	517	508	496	492	492	492	502	532	543	554	564	566	548	531	481	482	464	459	516
20 D	458	476	497	505	489	503	511	499	476	467	452	452	487	501	511	524	514	525	530	532	531	531	529	528	525	**503**
21	524	525	524	524	522	520	520	518	512	503	491	492	494	505	517	523	530	536	540	544	541	532	534	531	534	521
22	533	532	521	523	518	514	520	511	503	494	492	485	492	505	514	520	527	538	533	533	534	527	527	526	520	517
23	520	522	526	522	520	520	518	517	512	503	500	493	493	502	508	523	537	534	535	534	534	532	534	535	537	520
24	537	534	526	523	525	526	526	519	509	498	491	489	490	501	509	514	527	538	543	543	540	539	538	540	543	522
25	543	534	530	527	527	530	526	518	516	509	497	494	490	506	511	524	544	551	562	559	549	541	545	540	534	528
26	534	534	532	533	534	522	515	515	507	497	497	503	500	505	509	520	529	538	541	540	542	537	531	528	532	523
27	532	523	522	526	527	526	523	520	515	510	508	503	503	514	519	527	533	535	538	537	535	534	534	534	534	524
28	534	532	531	532	532	531	529	529	524	516	509	502	503	519	526	523	532	543	540	543	547	548	545	545	543	530
29 Q	543	539	538	536	535	531	528	526	520	509	506	504	506	512	521	527	532	535	541	543	541	539	538	539	540	529
30	540	538	540	535	535	535	531	527	521	515	505	508	508	511	517	524	532	538	547	547	545	541	541	540	540	530
Mean	533	532	530	529	529	529	528	524	516	505	498	**494**	497	508	517	526	531	539	**544**	544	540	537	535	534	534	525

MAGNETIC DECLINATION (WEST).

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

18. Lerwick. (D.) 13° + **April, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1 D	62·8	62·6	62·6	62·0	61·8	61·4	60·8	59·3	58·1	58·3	61·6	64·9	67·8	69·9	69·5	68·7	67·0	65·7	65·1	57·4	57·7	61·8	62·0	60·8	59·1	62·8
2	59·1	59·7	57·9	60·8	61·2	59·3	59·3	58·9	59·1	60·1	63·3	65·5	67·0	68·9	68·5	67·0	65·3	64·3	62·9	62·9	63·3	60·8	62·4	61·8	63·1	62·6
3 D	63·1	62·2	61·4	61·0	60·4	60·2	58·5	59·5	60·1	60·1	62·9	65·5	67·6	68·7	67·6	68·4	67·6	65·1	66·2	65·5	67·2	57·9	56·0	58·5	62·6	63·0
4	62·6	62·2	62·0	61·6	61·2	61·4	60·4	59·1	58·7	58·9	61·2	63·5	65·8	69·3	68·9	67·2	65·1	63·5	56·6	57·9	61·8	61·0	59·1	58·5	62·4	62·0
5	62·5	58·0	62·5	59·2	59·0	61·1	60·5	59·0	57·6	58·2	61·7	64·2	67·7	69·2	68·8	66·7	65·2	63·2	62·5	62·7	63·0	62·7	62·9	62·5	62·3	62·5
6 Q	62·3	62·1	61·9	61·9	61·7	61·5	61·3	60·0	59·4	60·0	60·5	62·3	66·9	69·6	69·6	68·3	66·3	64·6	63·2	62·9	63·0	62·9	62·7	62·7	62·9	**63·2**
7	63·0	62·0	62·0	61·6	60·6	60·6	60·1	59·3	58·1	58·5	61·0	63·7	67·0	68·6	68·7	67·0	65·7	64·7	64·1	63·9	63·7	63·7	59·9	61·2	61·8	62·8
8	61·8	62·2	60·6	60·6	60·4	60·6	60·3	59·9	59·1	59·1	61·0	63·9	67·2	68·6	69·7	68·9	67·2	64·7	64·1	64·1	64·1	61·8	62·2	59·7	57·4	62·9
9	57·4	58·7	57·9	57·4	57·9	57·7	57·9	57·6	59·3	60·3	62·2	65·1	66·0	69·3	69·3	68·6	65·9	65·5	65·9	65·7	65·1	63·7	62·0	57·7	57·9	62·3
10 D	58·0	58·6	59·4	60·5	54·6	52·4	56·7	58·6	59·4	59·8	62·7	66·1	69·4	72·1	71·0	69·6	68·5	64·4	63·6	58·4	58·8	59·4	62·5	63·2	62·9	62·1
11	62·9	61·7	61·3	60·5	60·0	59·6	58·6	59·8	60·9	64·0	64·6	67·3	69·6	70·2	69·8	64·4	64·2	63·2	62·3	61·9	58·8	62·9	63·4	63·2	62·5	63·1
12 Q	62·5	62·1	61·7	61·1	60·9	60·4	59·4	58·8	58·6	60·4	62·5	64·2	65·4	66·7	66·3	65·2	64·0	62·9	64·1	61·7	61·7	61·9	62·7	62·9	61·8	62·3
13 Q	62·9	62·7	62·5	62·1	60·9	60·4	59·6	58·8	58·2	59·0	60·5	62·9	64·8	66·5	66·0	64·4	62·7	62·5	62·3	62·5	62·7	62·7	62·7	62·7	62·7	62·2
14 Q	62·7	62·5	61·9	61·5	61·3	60·5	60·0	58·8	57·8	58·8	61·1	63·8	65·6	67·3	67·3	66·7	66·1	65·8	65·2	64·2	63·4	64·0	62·1	62·1	61·9	62·9
15	61·9	61·3	60·7	60·4	60·0	59·2	60·0	60·7	60·0	60·4	62·3	63·6	66·0	68·1	68·8	67·5	66·1	65·4	64·6	64·0	62·3	60·4	61·9	61·7	61·9	62·8
16	61·9	62·9	62·7	60·7	60·4	59·6	58·8	58·0	57·8	58·2	60·0	62·3	65·4	67·1	66·9	66·1	65·4	64·8	65·0	64·6	63·8	63·4	63·4	62·9	62·3	62·6
17	62·3	61·9	62·7	61·5	60·7	59·0	58·2	58·0	59·4	60·4	62·1	64·8	67·9	69·6	69·0	66·5	66·0	65·2	63·4	64·0	64·4	63·8	61·3	61·5	62·9	63·1
18	62·8	62·8	61·2	60·8	55·2	53·7	53·7	56·4	57·6	59·5	61·8	63·9	67·6	70·9	70·3	69·5	66·0	65·3	62·6	61·6	61·4	56·4	62·4	62·6	62·6	61·9
19 D	62·6	63·7	63·3	61·2	59·7	59·5	58·5	58·7	58·1	58·1	60·4	63·7	66·8	67·6	69·3	71·3	69·9	67·2	65·9	63·9	52·1	53·5	53·3	58·1	49·4	61·7
20 D	49·4	55·6	53·5	51·0	57·6	57·4	56·4	57·0	63·0	62·2	64·1	69·1	68·2	69·9	69·5	68·0	67·0	64·5	62·8	62·4	62·2	62·2	62·2	62·0	61·4	61·8
21	61·3	60·9	60·5	60·2	59·8	59·6	58·6	57·3	57·1	56·5	60·2	62·1	65·2	67·1	66·9	65·8	65·0	64·0	63·2	63·2	63·2	62·3	61·3	61·5	61·1	61·8
22	61·0	61·2	61·0	61·4	58·5	57·5	57·9	56·2	57·7	60·1	61·4	63·7	65·7	67·0	67·0	65·9	65·5	65·3	64·0	62·2	61·9	61·9	60·7	61·1	65·1	62·0
23	65·1	61·9	59·0	58·6	59·4	58·6	58·6	57·8	58·4	59·2	61·1	62·6	64·9	67·5	66·9	66·5	66·7	64·9	62·8	62·2	61·9	61·7	61·7	59·2	60·3	61·9
24	60·3	57·4	57·2	57·2	56·3	56·5	56·3	56·7	57·4	58·6	60·1	62·1	64·8	67·3	67·5	66·5	65·5	65·3	64·2	63·4	63·0	62·6	62·2	61·3	58·4	**61·2**
25	58·4	59·5	59·2	59·0	58·6	57·0	56·1	57·4	56·7	57·8	59·9	63·0	65·5	68·2	68·4	67·7	67·3	67·5	66·1	65·7	61·1	60·5	62·1	60·9	61·3	61·9
26	61·3	60·9	59·7	59·2	58·6	57·4	60·1	59·0	61·3	63·2	65·1	65·3	65·7	65·9	65·9	64·2	63·8	64·0	63·8	63·2	63·0	62·4	60·9	59·0	57·8	62·1
27	57·8	58·8	61·3	58·8	58·0	58·0	57·8	58·2	59·0	59·5	61·3	63·4	64·8	65·1	65·1	64·4	63·8	63·2	62·8	61·9	61·7	61·5	61·3	61·5	61·5	61·3
28	61·5	61·5	61·1	60·9	59·7	59·4	58·4	57·6	57·2	58·2	60·3	63·2	65·9	67·8	67·3	64·2	62·4	61·5	61·3	61·5	61·5	61·3	59·7	61·3	61·5	61·4
29 Q	61·5	61·3	61·1	60·1	59·0	58·4	58·4	57·2	57·4	59·2	61·7	63·8	65·1	65·3	64·8	63·4	62·4	62·1	62·1	62·1	61·7	61·5	61·3	61·1	60·9	61·3
30	60·9	61·7	60·1	59·5	58·6	57·2	56·5	56·3	57·6	60·1	63·6	66·1	67·1	67·7	67·1	65·5	63·4	62·4	62·1	61·3	61·5	61·1	61·1	61·1	62·2	61·6
Mean	61·1	61·0	60·7	60·1	59·4	58·8	58·6	**58·3**	58·7	59·6	61·7	64·2	66·5	**68·2**	68·1	66·8	65·6	64·4	63·4	62·6	62·0	61·5	61·3	61·1	61·1	62·2

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

19. Lerwick. (V.) 46,000 γ (·46 C.G.S. unit) + **April, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1 D	629	630	629	629	629	626	625	627	629	629	630	627	622	622	631	638	646	652	660	694	664	644	639	635	629	637
2	629	611	626	633	633	633	633	634	634	632	636	635	629	626	626	627	630	631	631	631	634	633	632	628	623	630
3 D	623	625	629	632	632	632	632	632	627	625	627	628	626	624	628	639	661	689	700	709	695	682	636	621	627	**644**
4	627	635	635	635	635	634	634	634	631	631	632	629	622	623	631	637	635	638	651	655	636	632	619	601	578	631
5	578	582	591	592	612	624	629	631	630	628	630	626	621	620	624	629	632	635	633	632	632	630	630	628	628	622
6 Q	628	628	629	631	631	630	632	632	632	632	632	627	618	617	625	630	633	635	635	632	631	631	628	625	623	629
7	623	625	626	626	629	629	629	629	627	625	626	622	617	615	617	619	620	624	624	626	625	627	625	624	611	624
8	611	596	609	616	617	619	619	620	622	621	624	624	617	611	609	613	622	630	627	624	624	626	621	615	603	618
9	603	603	608	611	610	613	616	618	620	621	625	621	618	615	616	613	623	621	625	621	621	623	623	609	606	617
10 D	606	605	597	543	509	537	584	600	612	619	624	621	622	627	628	628	630	634	632	642	641	634	610	568	578	606
11	578	601	610	613	614	613	614	614	616	617	619	620	622	631	638	652	635	617	612	619	628	619	613	611	612	618
12 Q	612	616	616	616	615	615	616	616	613	615	619	617	617	619	619	617	618	618	618	619	619	618	618	617	617	617
13 Q	617	617	616	617	616	615	614	615	615	614	615	614	613	613	613	616	625	621	619	618	619	621	621	622	623	617
14 Q	623	624	623	623	623	623	624	625	623	621	624	622	617	614	617	623	630	632	632	628	629	627	612	607	619	623
15	619	619	624	627	629	627	626	622	620	620	625	626	621	618	621	628	634	637	639	641	644	640	627	623	620	627
16	620	618	613	621	624	624	626	628	627	625	628	627	626	622	626	625	625	625	621	621	620	618	619	618	621	623
17	621	622	617	617	617	615	513	615	616	617	619	617	612	612	621	625	626	624	623	622	622	621	616	616	618	619
18	618	621	615	591	564	594	602	610	617	618	626	625	626	623	626	635	645	637	641	641	633	627	620	616	618	620
19 D	618	618	614	617	621	623	622	622	622	622	620	613	613	610	608	610	624	644	664	670	642	579	574	558	504	615
20 D	504	519	510	554	563	548	587	605	609	606	622	638	637	623	625	640	637	626	624	624	620	617	616	616	618	601
21	618	616	618	617	618	618	619	616	614	615	619	615	610	606	605	606	609	613	615	615	618	623	616	615	611	615
22	611	611	606	601	597	597	600	609	612	614	618	619	618	618	615	615	617	630	641	643	639	628	620	619	596	616
23	596	566	593	613	619	622	627	629	627	626	630	632	629	629	636	635	639	646	647	643	639	636	632	628	611	626
24	611	598	610	617	621	626	629	631	632	631	631	630	624	623	628	630	631	636	638	639	637	633	633	629	620	627
25	620	625	627	630	629	631	633	631	625	624	627	624	617	615	619	624	628	642	651	660	669	654	639	634	635	633
26	635	628	629	627	625	625	620	616	619	617	615	615	616	618	618	618	618	617	617	617	618	622	627	624	606	620
27	606	606	607	608	612	612	611	610	608	609	611	609	608	608	608	608	609	613	614	617	617	615	613	614	614	611
28	614	614	614	613	614	614	613	612	610	610	612	612	608	605	611	616	615	613	614	612	613	614	618	614	610	613
29 Q	610	611	614	614	615	615	611	611	611	608	607	609	603	596	600	604	604	605	601	600	600	600	601	601	601	606
30	601	600	588	596	597	597	597	593	589	585	587	588	590	594	596	596	599	601	603	605	606	607	605	604	604	**597**
Mean	610	610	611	613	612	614	618	620	620	619	622	621	618	617	619	623	627	630	632	**634**	631	626	620	615	**609**	620

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS:

20. Lerwick. MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **April, 1931.**

Day.	Terrestrial Magnetic Elements. Horizontal Force. Maximum 14,000 γ +		Minimum 14,000 γ +		Range.	Declination. Maximum 14° +		Minimum 14° +		Range.	Vertical Force. Maximum 46,000 γ +		Minimum 46,000 γ +		Range.	Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2).	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ			°A.
1 D	19 16	**605**	501	10 25	104	13 19	11·2	−13·6	19 24	24·8	19 15	715	620	12 38	95	309	1	77·2
2	23 43	555	485	10 35	70	13 28	9·7	−4·4	0 18	14·1	10 34	638	600	1 4	38	99	0	77·1
3 D	17 20	571	493	10 50	78	20 20	13·6	−6·9	22 41	20·5	19 6	**720**	614	22 52	106	249	1	77·2
4	18 34	558	488	11 30	70	12 53	9·9	−10·6	18 25	20·5	18 20	659	571	23 59	88	202	1	77·3
5	0 12	545	484	10 28	61	13 37	9·8	−2·7	3 20	12·5	17 5	637	567	0 12	70	114	1	77·1
6 Q	18 50	550	498	12 15	52	13 20	10·2	−1·6	8 33	11·8	17 49	638	614	12 20	24	58	0	76·7
7	23 26	554	496	11 35	58	13 28	9·7	−2·3	8 4	12·0	4 4	631	609	23 57	22	64	0	77·2
8	21 44	559	495	12 6	64	14 12	10·3	−3·0	23 58	13·3	17 0	632	588	0 50	44	92	1	77·5
9	22 54	572	493	11 48	79	13 24	11·1	−6·5	23 17	17·6	9 53	627	599	23 7	28	125	1	77·8
10 D	4 45	562	467	3 9	95	12 56	**13·7**	−14·3	4 40	28·0	19 26	650	499	4 14	151	457	1	78·4
11	18 4	552	476	12 12	76	13 43	12·1	−7·4	19 58	19·5	14 54	656	577	0 1	79	187	1	79·2
12 Q	21 6	535	492	11 48	43	13 10	7·1	−1·8	7 35	**8·9**	18 40	620	609	0 1	**11**	34	0	79·8
13 Q	19 15	536	497	11 53	**39**	13 15	6·9	−2·3	7 45	9·2	15 39	627	610	12 40	17	33	0	79·6
14 Q	22 16	547	491	10 31	56	12 55	7·9	−2·7	7 54	10·6	17 13	635	603	22 46	32	62	0	79·4
15	18 45	551	487	11 14	64	13 35	9·6	−1·8	5 45	11·4	20 20	647	614	0 43	33	75	0	79·0
16	18 12	553	488	11 40	65	13 29	7·5	−3·1	8 4	10·6	10 10	630	610	2 0	20	67	0	78·5
17	21 38	552	494	9 46	58	13 47	10·2	−2·7	6 45	12·9	16 21	628	609	12 44	19	67	0	78·5
18	3 34	554	476	11 39	78	13 52	11·6	−10·4	20 45	22·0	15 56	647	553	3 45	94	236	1	78·3
19 D	17 26	574	**410**	23 34	**164**	15 21	12·2	**−22·9**	23 53	**35·1**	18 56	679	492	23 33	**187**	838	2	78·6
20 D	20 34	535	412	10 37	123	10 38	12·0	−17·5	0 1	29·5	14 57	645	**487**	0 4	158	557	1	79·1
21	19 30	549	489	10 14	60	13 10	7·5	−4·9	8 50	12·4	20 44	626	603	14 24	23	68	0	79·2
22	16 41	550	480	11 15	70	13 23	7·6	−4·4	7 27	12·0	18 27	647	595	4 50	52	102	1	79·1
23	23 59	542	488	11 25	54	0 8	8·2	−3·0	7 6	11·2	16 40	649	558	0 40	91	134	1	79·0
24	23 35	549	485	11 55	64	13 13	8·0	−5·3	4 15	13·3	18 56	640	594	0 48	46	93	0	79·2
25	18 10	567	481	11 15	86	13 6	9·8	−4·9	7 47	14·7	20 5	680	607	12 56	73	166	1	79·5
26	20 35	547	490	9 6	57	13 20	6·7	−3·9	4 54	10·6	0 4	634	600	24 0	34	64	0	79·9
27	17 32	542	499	11 43	43	13 35	5·7	−3·5	0 2	9·2	19 24	620	600	0 1	20	38	0	80·6
28	20 16	552	497	11 23	55	13 33	8·4	−3·3	8 17	11·7	21 53	622	604	12 54	18	57	0	80·6
29 Q	18 10	545	503	11 36	42	13 6	5·7	−3·3	7 35	9·0	4 45	616	594	12 25	22	37	0	81·1
30	18 25	550	502	10 17	48	12 45	8·0	−4·3	6 58	12·3	21 7	609	582	9 3	27	57	0	81·2
Mean	—	554	485	—	69	—	9·4	−6·0	—	15·4	—	643	586	—	57	158	0·50	78·8
No. of Days used.	—	30	30	—	30	—	30	30	—	30	—	30	30	—	30	30	30	30

§ For explanation *see* p. 32. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

21. Lerwick. (H.) 14,000 γ (·14 C.G.S. unit) + **May, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	540	538	531	527	528	528	525	518	510	505	503	501	500	506	516	526	536	547	552	549	546	543	541	540	540	527
2	540	538	532	531	531	537	526	525	519	507	499	499	507	507	521	524	535	543	545	546	543	540	538	537	535	528
3	535	535	536	537	534	530	527	526	525	516	509	502	506	515	522	532	536	546	553	550	550	538	540	538	538	531
4	538	537	532	532	531	532	531	525	522	513	509	503	507	519	526	531	538	544	553	554	547	540	535	535	536	531
5	536	534	534	532	532	538	534	531	526	515	505	496	497	517	530	532	537	559	565	559	558	548	546	546	546	534
6 D	546	542	538	533	538	544	545	538	514	509	511	487	496	516	528	532	540	541	565	556	551	544	537	535	536	533
7 D	536	542	547	516	475	481	505	531	526	511	500	473	484	495	516	520	549	556	544	538	555	538	530	533	527	521
8	527	518	507	516	525	522	516	513	505	496	489	491	504	512	528	532	533	538	540	548	542	537	535	534	532	521
9 Q	532	530	528	526	525	525	523	517	512	506	500	502	507	517	529	534	534	537	540	539	538	535	535	537	535	525
10 Q	535	535	531	529	528	528	524	518	512	503	500	500	508	520	533	541	546	549	545	543	543	543	542	542	541	529
11	541	539	539	539	539	536	532	528	523	517	512	518	520	515	545	533	540	569	592′	596	566	529	508	513	520	537
12	520	512	518	486	510	509	497	511	513	501	496	492	508	517	523	530	540	554	562	557	551	555	536	529	534	522
13 D	534	530	529	527	533	536	532	516	510	507	504	500	503	507	519	529	546	570	581	578	569	549	527	534	518	532
14 D	518	509	513	534	544	533	517	515	515	508	504	506	507	510	523	522	533	560	581	579	562	528	510	511	502	526
15 D	501	399	385	449	491	483	495	498	471	472	487	503	501	544	564	532	535	544	556	569	569	537	532	525	525	**506**
16	524	522	525	512	525	521	502	481	505	503	502	502	511	525	545	535	534	542	552	538	537	535	532	520	527	522
17	527	519	505	519	508	504	516	516	513	508	505	506	510	517	525	530	538	550	553	558	555	538	538	536	538	525
18	538	537	505	525	529	514	508	504	509	511	509	510	521	531	540	547	545	540	553	559	550	540	533	529	522	528
19	521	523	527	520	521	527	521	516	509	511	510	513	521	523	527	531	535	535	545	545	546	540	538	538	538	527
20	538	535	533	535	535	533	528	522	515	504	500	500	503	518	536	541	554	565	568	557	550	540	538	532	522	532
21	521	526	537	540	539	537	531	523	518	515	513	511	520	524	531	541	549	556	556	548	543	538	536	536	538	533
22 Q	538	538	537	537	537	535	533	526	519	510	506	502	508	519	522	534	543	547	551	548	545	541	537	537	537	531
23 Q	536	537	537	533	536	536	533	526	515	505	498	491	499	510	521	534	545	550	551	557	553	547	547	546	546	531
24	546	545	545	545	544	541	536	532	525	519	511	507	509	518	520	538	549	559	554	552	548	547	546	545	545	537
25	545	543	541	539	537	535	528	525	523	521	522	523	524	530	531	553	569	577	576	561	561	562	554	559	557	**544**
26	556	554	548	552	552	535	537	538	529	511	502	484	495	500	507	531	558	574	563	559	547	536	530	526	521	534
27	520	522	518	515	523	518	511	510	509	497	487	494	510	510	520	523	531	536	538	541	537	525	524	521	520	518
28 Q	520	519	519	518	517	516	512	503	491	484	487	496	508	517	524	528	527	529	534	538	537	535	533	533	532	518
29	532	529	528	528	529	529	527	520	513	504	504	508	521	535	555	526	519	541	550	551	550	541	537	536	534	530
30	534	534	534	534	533	530	528	524	518	509	505	501	511	521	533	548	540	554	553	553	549	545	541	538	536	532
31	536	536	538	538	536	530	528	519	509	501	497	494	500	510	528	540	553	559	558	552	553	549	547	548	546	532
Mean	533	528	525	526	528	526	523	519	514	506	503	**500**	507	517	529	533	541	551	**556**	554	550	541	536	535	533	528

MAGNETIC DECLINATION (WEST).

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

22. Lerwick. (D.) 13° + **May, 1931**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	62·2	60·9	60·3	59·2	58·2	57·6	56·8	56·8	57·8	59·4	61·3	63·2	64·9	65·5	65·7	65·5	65·1	64·0	63·8	63·2	62·4	62·6	62·4	61·7	61·9	61·7
2	61·9	61·9	62·8	58·6	58·6	57·4	57·0	58·0	58·2	60·5	61·3	63·0	64·9	65·9	65·9	64·8	63·8	63·8	63·2	62·4	62·1	61·7	61·3	61·3	61·1	61·7
3	61·1	60·9	60·5	60·1	58·6	58·2	57·0	58·0	58·0	58·6	62·6	64·8	66·9	67·7	67·5	66·7	65·5	63·8	63·2	62·6	62·4	61·5	59·9	59·5	60·5	61·9
4	60·5	60·9	63·4	60·3	56·5	56·3	55·7	55·5	56·1	57·6	59·9	63·0	65·3	66·7	66·7	65·5	64·0	63·6	63·0	61·9	61·5	60·7	58·0	59·7	59·7	60·9
5	59·7	59·0	59·0	57·8	58·4	56·3	55·5	55·9	55·3	57·2	61·1	64·8	68·1	68·9	69·1	68·3	67·0	66·2	64·7	62·5	58·9	58·9	56·8	57·3	58·9	61·1
6 D	58·9	60·6	61·8	60·4	56·8	54·4	53·3	51·9	56·0	62·9	62·9	67·0	68·9	68·1	68·0	66·8	65·8	63·5	63·3	62·0	61·6	61·6	61·4	60·0	60·0	61·6
7 D	60·0	59·3	60·0	67·4	67·6	64·5	48·1	50·2	55·2	57·0	59·8	64·5	66·6	67·0	67·0	64·9	63·1	62·7	62·4	60·8	58·1	59·1	59·8	59·8	58·9	61·0
8	58·9	59·8	62·5	60·8	57·5	56·6	56·2	55·6	56·2	57·9	60·0	62·5	63·7	65·4	65·6	63·7	62·5	61·8	60·4	60·4	60·8	60·8	61·0	61·0	60·8	60·5
9 Q	60·8	60·6	60·4	59·5	58·1	56·2	55·8	55·2	56·0	57·3	59·7	62·2	64·9	65·3	64·5	62·7	61·4	60·8	60·8	61·0	61·2	61·2	60·8	60·6	60·8	60·3
10 Q	60·8	60·8	60·2	59·5	57·7	56·8	55·8	55·4	55·8	58·1	61·4	64·3	65·3	65·4	65·1	64·3	63·5	63·3	63·1	62·2	62·0	62·0	61·2	61·2	60·6	61·0
11	60·6	60·0	59·7	59·7	57·9	55·0	53·9	53·5	55·2	57·3	60·8	64·3	67·2	67·6	68·3	65·6	63·9	63·9	64·9	66·4	58·3	55·8	47·1	52·7	54·3	59·9
12	54·3	56·0	58·9	60·8	61·4	58·5	57·0	56·2	57·1	60·8	62·9	68·1	69·7	68·9	66·6	64·9	62·7	61·4	60·4	61·0	61·6	58·7	56·2	57·7	59·1	61·0
13 D	59·1	58·7	58·7	57·3	55·2	53·1	54·3	55·4	56·0	57·7	61·4	64·7	66·4	66·8	66·4	64·5	63·1	63·1	62·9	61·8	57·7	43·1	55·0	53·7	52·5	58·9
14 D	52·5	53·3	50·0	48·8	51·0	51·7	50·2	51·5	51·9	55·8	59·5	62·7	65·3	65·4	65·6	64·7	63·5	64·1	62·7	61·2	57·0	61·8	58·3	52·5	46·5	**57·4**
15 D	46·5	51·5	55·8	53·1	55·2	56·8	55·0	54·4	55·6	58·9	59·3	62·4	64·9	67·0	62·9	64·3	63·9	63·3	62·0	57·0	56·6	58·9	59·3	59·1	58·7	58·7
16	58·7	58·9	58·7	59·8	55·6	55·6	56·0	61·4	60·6	59·3	60·6	63·1	65·1	66·2	66·8	64·5	63·3	62·5	63·1	61·6	59·1	60·0	59·7	60·8	59·7	60·9
17	59·7	57·7	60·6	59·7	59·1	59·3	56·4	55·0	55·6	57·0	58·5	60·6	63·1	65·3	66·0	65·1	63·9	62·2	61·8	61·4	58·3	60·8	60·6	60·6	57·7	60·3
18	57·7	58·9	63·5	57·0	55·8	53·7	54·4	53·7	55·0	57·5	61·0	64·7	68·5	70·5	70·3	68·1	65·3	62·7	60·2	59·5	59·5	58·3	58·9	57·3	55·0	60·4
19	55·0	57·7	55·0	56·4	55·0	55·0	55·6	55·2	55·4	58·1	61·8	63·3	65·3	67·6	67·4	66·2	63·3	62·2	61·4	61·2	61·0	60·4	60·0	59·7	59·7	60·1
20	59·7	59·3	58·9	58·5	57·1	56·0	55·4	55·2	56·6	58·9	61·6	65·3	68·9	69·7	68·5	69·1	68·5	66·8	64·9	63·1	62·0	59·7	59·5	54·8	54·8	61·5
21	54·8	55·0	56·4	57·9	57·5	56·8	56·2	57·0	57·5	59·1	60·4	63·1	65·3	67·8	67·8	66·4	64·3	63·1	62·9	61·6	61·4	61·0	60·4	60·8	61·2	60·7
22 Q	61·2	61·4	60·8	60·0	58·5	57·0	55·2	55·2	55·2	56·6	60·6	64·9	67·2	68·5	68·3	67·4	65·1	63·1	62·2	61·4	61·2	61·6	61·6	61·6	61·4	61·5
23 Q	61·4	61·2	60·4	58·3	56·6	55·2	54·6	54·4	54·8	56·2	58·7	61·2	63·3	65·3	65·6	64·9	63·1	62·2	61·4	61·6	62·2	62·5	61·2	60·4	61·4	60·3
24	61·4	61·4	60·0	59·5	58·5	57·0	55·2	55·4	56·0	57·9	60·8	63·5	65·4	66·4	66·2	65·3	64·1	63·3	62·2	61·8	61·8	61·8	61·8	61·2	61·0	61·2
25	60·9	61·1	60·3	59·4	56·9	55·1	54·3	54·7	56·1	57·4	59·7	61·7	63·0	64·2	62·8	62·8	63·2	63·0	63·0	62·8	63·8	62·6	59·2	60·3	59·4	60·3
26	59·4	58·8	59·2	57·2	59·6	65·9	66·9	63·4	60·3	62·3	62·1	62·6	63·2	63·8	64·8	63·4	63·8	63·8	62·8	62·6	63·0	63·2	62·1	61·5	61·7	**62·4**
27	61·7	60·9	60·3	60·5	57·6	57·0	58·4	58·6	59·4	59·0	60·5	62·6	65·5	67·1	65·9	65·2	63·4	62·3	61·9	59·9	61·3	61·1	60·9	60·3	59·9	61·3
28 Q	59·8	60·0	60·0	59·1	58·1	56·4	55·4	54·8	55·2	56·9	60·4	62·9	64·5	65·2	63·5	62·3	61·2	60·0	60·8	61·6	61·4	61·0	61·0	60·0	60·0	60·1
29	60·0	61·2	61·0	58·7	57·3	55·8	54·8	55·4	56·8	58·5	62·2	64·5	66·6	68·3	67·8	66·6	65·1	63·1	62·0	61·6	61·4	60·8	60·0	60·2	59·6	61·2
30	59·6	59·8	59·5	58·9	57·5	56·4	54·4	54·4	55·4	57·1	59·8	62·3	64·3	64·5	63·9	62·9	61·0	59·6	59·3	59·5	59·1	60·6	61·2	60·6	60·2	59·7
31	60·2	59·8	59·5	59·3	57·5	57·1	56·0	55·6	56·0	56·9	60·4	64·3	66·8	67·6	67·6	65·4	63·3	62·0	60·8	61·2	61·8	62·0	61·6	61·4	60·6	61·0
Mean	59·0	59·3	59·6	58·8	57·6	56·7	**55·5**	55·6	56·3	58·2	60·7	63·6	65·8	**66·8**	66·4	65·3	63·9	62·9	62·3	61·6	60·7	60·2	59·6	59·3	59·0	60·7

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

23. Lerwick. (V.) 46,000 γ (·46 C.G.S. unit) + **May, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	610	602	605	612	614	615	615	614	610	608	609	611	610	611	613	616	618	616	617	618	619	618	620	622	625	614
2	625	625	617	609	621	618	621	614	614	618	622	623	626	629	628	631	631	632	631	628	627	627	627	627	628	624
3	628	630	632	633	632	632	627	614	605	612	615	615	614	615	618	625	630	633	636	638	638	640	630	618	612	625
4	612	616	610	606	617	618	614	610	603	604	604	605	602	604	614	616	614	618	621	624	626	627	623	619	616	614
5	616	617	619	622	623	618	619	617	613	609	611	615	618	615	620	632	637	636	642	647	650	644	631	617	616	625
6 D	616	623	624	612	613	621	627	623	621	612	615	629	615	623	632	631	639	653	648	650	641	639	637	634	633	**629**
7 D	633	631	622	558	426	417	516	583	604	613	625	649	649	648	652	667	657	659	653	651	642	628	627	620	623	609
8	623	620	614	610	621	624	626	629	627	625	622	620	619	620	615	619	621	623	627	625	623	622	620	619	618	621
9 Q	618	617	617	618	617	618	618	618	616	615	615	610	610	612	616	618	619	616	617	619	621	621	621	621	619	617
10 Q	619	615	613	617	619	619	619	619	616	612	616	614	611	611	615	617	619	621	623	622	622	621	623	622	621	618
11	621	620	619	618	618	620	620	616	611	603	603	597	595	597	593	606	612	616	629	652	658	637	598	578	578	613
12	578	599	575	563	564	558	585	593	601	607	611	610	611	611	611	619	626	633	638	636	631	620	610	607	599	604
13 D	599	604	612	614	609	608	608	612	612	610	607	605	603	610	614	611	610	613	626	642	651	610	599	593	590	612
14 D	590	578	563	563	578	599	610	606	599	595	596	590	595	602	609	612	612	609	616	634	645	605	443	500	505	588
15 D	505	471	474	430	428	480	554	572	593	598	603	607	615	620	661	640	616	607	613	623	619	616	610	601	578	575
16	578	588	597	592	578	595	602	601	589	592	598	604	606	611	616	631	625	619	616	625	623	617	611	603	576	605
17	576	573	568	584	596	588	593	597	598	596	594	596	596	597	601	602	605	607	609	605	607	604	599	596	593	596
18	593	585	566	535	546	561	574	578	579	576	580	587	588	590	599	612	622	622	615	610	605	610	606	601	595	589
19	595	583	577	584	587	597	600	599	601	596	596	593	594	601	605	613	621	625	615	611	611	611	609	608	608	602
20	608	608	604	600	607	612	613	613	612	609	609	605	600	599	604	621	628	640	653	660	652	635	624	600	596	617
21	596	591	598	610	621	626	627	625	621	617	615	613	609	608	606	608	612	617	618	620	619	618	617	615	613	614
22 Q	613	612	611	614	616	618	617	617	618	614	608	607	599	599	598	597	599	603	603	604	603	602	600	599	596	607
23 Q	596	595	594	597	598	600	598	596	593	592	590	588	586	586	585	587	588	593	594	595	596	595	594	593	591	593
24	591	590	592	594	595	597	597	593	589	590	593	591	583	582	585	584	588	596	602	601	602	602	602	602	602	593
25	602	602	603	603	604	607	606	603	601	596	597	596	589	589	589	591	601	615	628	633	621	616	600	589	592	603
26	592	596	599	595	593	582	554	551	561	575	577	577	578	589	594	592	597	613	624	613	600	595	593	589	586	589
27	586	581	578	572	569	576	579	576	582	581	581	583	581	581	582	583	581	580	576	574	574	575	576	577	578	578
28 Q	578	576	576	574	575	575	576	577	573	571	571	566	566	566	567	571	572	570	571	572	576	578	579	579	581	**573**
29	581	582	580	581	584	585	582	584	584	580	581	582	564	572	584	607	605	598	591	589	588	593	593	593	594	586
30	594	593	597	600	599	597	591	591	595	591	590	586	583	581	589	597	606	602	604	605	603	599	597	597	599	595
31	599	601	601	600	599	596	592	590	585	579	577	574	574	573	578	585	589	596	599	593	583	580	578	579	579	587
Mean	599	598	595	591	**589**	593	599	601	601	600	601	602	600	602	606	611	613	616	618	**620**	619	613	603	601	598	604

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS:

24. Lerwick. MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **May, 1931.**

Day.	Terrestrial Magnetic Elements.															Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2).	Temperature in Magnet House 200 +
	Horizontal Force.					Declination.					Vertical Force.							
	Maximum 14,000 γ +		Minimum 14,000 γ +		Range.	Maximum 14° +		Minimum 14° +		Range.	Maximum 46,000 γ +		Minimum 46,000 γ +		Range.			
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ			°A.
1	17 30	554	490	11 12	64	13 47	6·1	−4·1	6 36	**10·2**	24 0	625	597	0 40	28	67	0	81·0
2	17 34	550	496	10 52	54	12 27	7·7	−4·5	7 54	12·2	16 57	634	606	2 40	28	64	0	80·3
3	18 3	558	499	11 22	59	13 26	8·0	−4·1	6 35	12·1	20 52	645	604	8 3	41	78	0	80·2
4	18 51	556	498	11 6	58	13 30	7·7	−5·1	6 40	12·8	20 15	629	599	12 26	30	72	0	80·6
5	20 28	572	493	12 7	79	14 16	9·5	−6·9	20 25	16·4	20 14	654	608	8 55	46	131	1	80·6
6 D	18 3	577	480	11 20	97	11 46	10·8	−10·4	6 50	21·2	17 8	656	605	9 18	51	201	1	81·0
7 D	20 14	599	407	3 49	192	3 52	**19·0**	−17·7	6 26	36·7	15 11	673	**362**	4 20	**311**	1576	2	80·9
8	18 46	551	485	10 32	66	13 34	6·6	−5·6	7 51	12·2	6 55	631	602	2 46	29	79	0	81·6
9 Q	15 27	544	497	10 20	47	12 54	5·6	−5·6	6 52	11·2	22 27	623	608	11 36	**15**	46	0	82·0
10 Q	16 26	552	498	10 41	54	12 30	5·8	−5·0	7 5	10·8	22 26	625	609	13 20	16	53	0	82·0
11	18 46	612	492	21 50	120	18 54	11·0	−14·8	22 10	25·8	19 24	**674**	573	22 42	101	365	1	81·7
12	21 11	578	467	3 2	111	12 0	10·1	−10·0	0 20	20·1	17 45	640	544	4 58	96	288	1	81·9
13 D	20 47	**626**	497	10 34	129	13 30	7·2	**−32·8**	20 46	**40·0**	20 23	672	548	20 53	124	606	1	82·1
14 D	18 7	598	462	22 31	136	21 24	10·7	−16·0	23 53	26·7	20 25	652	409	22 4	243	903	2	82·3
15 D	19 24	606	**256**	1 39	**350**	12 55	8·1	−15·2	1 23	23·3	14 23	665	395	3 33	270	2052	2	82·6
16	14 32	564	474	7 15	90	13 52	7·2	−6·9	4 4	14·1	15 10	683	573	24 0	110	238	1	82·9
17	19 50	569	496	4 34	73	13 47	6·6	−5·9	19 41	12·5	19 38	612	565	2 0	47	103	1	83·3
18	18 44	563	485	2 4	78	13 24	11·0	−6·9	5 42	17·9	16 50	623	522	2 38	101	221	1	83·6
19	19 54	548	504	7 47	**44**	13 30	8·0	−6·9	2 30	14·9	16 30	627	573	2 39	54	88	0	83·5
20	17 30	573	496	10 28	77	12 30	10·5	−8·1	23 30	18·6	19 24	665	597	2 34	68	168	1	83·0
21	16 44	559	508	10 43	51	13 35	8·7	−6·7	0 50	15·4	5 50	629	586	0 37	43	87	1	82·0
22 Q	17 46	556	498	10 52	58	12 56	8·9	−5·6	7 30	14·5	4 40	619	595	24 0	24	77	0	82·1
23 Q	19 5	559	489	10 48	70	13 53	6·0	−5·9	6 43	11·9	5 0	601	584	14 12	17	81	0	82·3
24	16 53	563	504	11 40	59	12 50	7·0	−6·1	6 27	13·1	18 6	604	579	12 46	25	71	0	82·4
25	17 25	590	515	11 53	75	16 31	5·2	−6·8	5 29	12·0	18 37	636	585	23 18	51	108	1	82·5
26	16 46	601	471	10 50	130	5 3	10·7	−4·7	2 40	15·4	17 16	632	538	6 50	94	300	1	82·7
27	19 25	551	481	9 40	70	12 46	7·5	−3·9	4 34	11·4	0 1	586	561	3 28	25	78	1	83·6
28 Q	19 25	539	480	8 57	59	12 43	5·6	−5·6	6 50	11·2	24 0	582	563	13 10	19	61	0	84·8
29	14 19	572	488	15 23	84	13 36	9·3	−6·1	6 12	15·4	15 25	620	560	12 17	60	149	1	85·0
30	17 12	562	499	11 7	63	12 20	4·9	−6·1	7 24	11·0	19 30	607	578	12 20	29	70	0	83·9
31	17 40	563	492	11 5	71	13 50	7·9	−5·4	6 59	13·3	2 0	601	572	12 13	29	90	0	83·4
Mean	—	570	481	—	89	—	8·4	−8·2	—	16·6	—	633	561	—	72	276	0·65	82·3
No. of Days used.	—	31	31	—	31	—	31	31	—	31	—	31	31	—	31	31	31	31

§ For explanation *see* p. 32. Q denotes an " International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

25. Lerwick. (H.) 14,000 γ (·14 C.G.S. unit) + **June, 1931.**

Hour. G.M.T. Day.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	545	544	540	543	545	543	535	524	512	501	493	493	506	511	519	534	569	590	597	575	583	575	488	409	529	532
2 D	529	548	551	539	538	522	520	531	504	462	458	483	499	558	523	539	538	608	587	572	559	548	526	482	464	529
3	464	509	526	523	520	499	500	509	503	488	482	491	500	516	534	546	556	558	562	560	553	553	548	544	540	524
4	540	540	541	538	538	535	529	521	515	508	506	502	510	522	526	532	539	554	561	560	551	551	544	541	537	533
5 Q	537	536	535	535	538	534	528	522	514	510	507	509	516	529	539	548	556	563	565	566	566	560	553	553	554	539
6	554	560	553	553	554	547	541	525	515	515	506	506	507	513	521	536	561	573	590	584	562	552	543	542	539	542
7	539	536	537	539	541	541	539	531	520	509	497	491	502	511	512	530	544	550	549	552	555	549	542	538	539	531
8	539	535	530	534	536	528	530	532	523	513	508	505	512	520	531	547	545	567	572	599	601	564	558	534	494	539
9 D	494	480	407	445	350	425	441	479	503	510	496	502	511	516	525	531	566	569	566	563	547	538	534	534	536	502
10	536	533	532	533	531	533	526	536	514	502	512	526	538	555	564	545	557	576	600	591	587	577	571	568	564	548
11	564	558	532	526	529	535	529	517	522	528	518	495	514	520	536	568	540	548	556	564	559	554	550	556	515	537
12	515	493	515	532	532	526	527	520	516	496	495	506	524	522	524	549	589	569	568	577	553	549	537	528	524	532
13	524	528	533	530	525	520	517	519	513	505	505	501	515	519	526	545	539	553	555	555	556	558	542	531	531	530
14	531	536	534	529	522	525	523	516	510	503	508	505	515	525	523	538	551	551	560	566	563	548	537	534	542	532
15 Q	542	528	524	528	525	523	521	514	505	498	506	513	513	523	529	538	547	552	555	550	551	550	541	536	541	530
16 Q	541	536	537	536	536	531	527	525	519	518	518	516	514	518	521	522	541	550	554	559	555	552	546	547	545	534
17 Q	545	538	541	541	540	536	531	527	521	518	516	511	513	519	529	536	547	546	548	549	556	552	551	544	543	536
18	543	537	543	540	539	538	533	524	518	515	505	503	505	511	518	528	536	547	554	551	546	539	536	534	537	531
19	537	539	539	539	539	539	536	522	514	508	500	491	500	502	512	531	538	544	551	564	559	548	542	537	536	530
20	536	535	532	531	536	540	541	532	522	509	503	498	500	510	521	538	536	541	546	550	546	544	544	542	539	531
21	539	536	536	535	538	540	540	534	525	517	517	516	516	513	523	540	537	548	567	582	560	559	549	542	545	538
22	545	542	544	541	541	539	534	533	525	509	504	496	502	511	525	542	560	559	563	556	558	553	540	540	539	536
23	539	540	535	537	536	535	529	520	517	514	519	506	510	511	513	526	535	555	555	554	550	544	542	544	536	532
24	536	529	529	530	533	523	524	516	511	504	500	504	507	516	526	539	534	536	541	555	552	541	536	530	533	527
25 Q	533	533	532	533	527	526	531	528	520	504	494	488	501	523	521	528	535	538	541	546	551	549	546	542	538	528
26 D	538	533	534	536	536	533	529	525	518	508	502	502	507	513	522	562	561	546	592	570	574	576	530	463	509	533
27 D	509	530	515	523	516	533	536	526	516	512	505	504	491	529	534	562	547	583	578	575	554	534	529	530	531	533
28 D	531	488	511	528	477	523	523	524	499	492	476	477	512	511	522	522	529	550	560	584	586	553	529	525	519	522
29	519	522	525	521	515	521	518	507	500	494	498	488	502	516	530	538	555	553	561	553	551	545	539	538	535	526
30	535	532	531	528	526	521	510	514	511	500	498	505	518	531	536	535	538	547	548	556	551	544	539	537	535	529
Mean	533	531	529	531	525	527	525	522	514	506	502	501	509	520	526	539	548	557	563	565	560	552	540	531	532	532

MAGNETIC DECLINATION (WEST).

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

26. Lerwick. (D.) 13° + **June, 1931.**

Hour. G.M.T. Day.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	60·5	59·9	59·4	59·0	57·2	56·1	54·5	53·6	54·5	56·3	59·4	62·4	66·3	68·8	68·6	67·1	67·3	68·4	68·4	65·3	65·9	61·7	59·5	47·8	57·4	61·1
2 D	57·3	56·6	57·3	54·8	52·1	60·4	60·8	58·1	57·5	54·0	62·1	66·8	70·4	69·1	71·2	69·5	67·2	65·0	63·3	60·4	59·4	57·7	59·3	62·9	63·1	61·5
3	63·1	56·0	55·4	56·2	56·6	58·1	58·7	57·9	56·4	57·7	61·6	63·9	64·9	65·4	64·9	63·9	62·9	61·4	60·2	60·4	61·2	61·2	60·4	61·0	64·1	60·4
4	64·0	61·3	58·0	57·8	56·8	55·1	54·5	54·3	55·3	56·8	58·4	61·9	63·2	64·8	64·6	63·4	61·9	60·7	60·1	60·1	60·1	60·9	59·9	60·1	59·5	59·7
5 Q	59·4	59·2	58·3	57·1	55·4	53·5	52·1	52·3	53·8	55·8	59·1	62·7	65·2	67·0	66·0	63·3	61·6	61·4	61·4	61·6	60·2	58·7	60·0	60·8	61·8	59·5
6	61·7	59·9	57·6	56·1	54·7	53·7	53·2	51·6	54·1	58·4	62·4	63·2	65·7	67·4	68·2	65·9	64·9	63·2	59·7	59·1	61·3	60·7	60·3	60·9	60·7	60·1
7	60·7	61·3	60·9	58·8	56·3	55·1	53·7	55·1	55·3	56·1	58·2	61·7	65·5	67·6	67·4	66·9	64·7	62·0	61·3	60·1	60·3	58·4	56·6	58·0	59·7	60·1
8	59·7	59·5	58·0	55·5	53·7	56·1	55·9	53·9	54·1	55·9	58·4	60·9	64·2	67·1	67·1	67·6	67·1	67·6	66·5	64·9	56·6	59·0	57·8	56·6	48·5	60·1
9 D	48·5	44·5	50·7	57·6	63·6	72·3	59·9	59·5	53·6	53·6	56·4	59·9	62·4	65·3	67·3	65·7	66·7	64·6	62·2	61·8	61·7	61·5	60·3	57·4	56·4	60·0
10	56·4	56·1	55·5	53·6	51·4	50·3	52·2	57·0	59·7	57·2	58·6	60·5	63·2	66·5	66·9	65·5	65·9	64·7	63·8	62·6	61·3	59·9	59·1	58·8	59·5	59·5
11	59·5	59·9	62·0	52·4	51·6	50·8	51·6	53·6	58·0	58·8	60·7	62·6	64·0	65·5	66·3	66·5	63·4	64·0	63·0	62·4	61·3	60·3	59·9	55·1	48·7	59·5
12	48·7	49·9	51·2	52·4	54·9	53·7	53·4	52·2	54·5	56·3	61·1	62·6	66·3	68·8	68·2	67·3	65·3	64·2	62·8	58·8	59·7	59·3	56·8	55·9	57·2	58·7
13	57·2	58·0	58·4	56·4	56·1	55·7	53·2	52·6	53·4	54·7	57·8	60·7	63·6	64·6	65·3	66·7	64·9	63·8	63·2	59·5	59·9	56·1	58·0	60·3	60·7	59·2
14	60·7	57·6	55·5	56·1	57·4	57·6	54·3	54·1	53·6	55·7	56·6	57·8	60·9	63·4	63·6	63·0	62·8	62·0	61·8	59·1	59·9	60·5	59·5	59·5	57·8	58·8
15 Q	57·8	55·7	54·5	54·3	53·6	53·9	53·9	53·6	53·9	54·3	56·8	59·7	61·1	62·0	62·8	62·0	61·7	61·8	61·7	60·7	60·1	59·7	59·5	59·0	58·2	58·1
16 Q	58·2	57·2	57·0	56·1	55·5	55·7	55·5	54·3	54·1	54·9	56·6	59·3	62·4	63·6	65·1	64·7	63·6	63·0	62·8	62·2	61·7	61·1	60·1	59·7	54·7	59·3
17 Q	54·7	55·7	57·4	57·4	56·6	56·1	54·9	54·9	55·3	56·4	59·1	63·0	64·0	65·3	65·9	65·3	64·2	64·2	61·3	61·3	61·3	60·9	59·3	58·6	59·0	59·7
18	59·0	59·9	61·1	57·4	55·9	53·7	53·4	53·4	55·7	57·0	59·1	61·7	64·4	66·3	66·1	64·6	63·2	61·7	61·3	60·5	59·7	59·7	59·3	59·1	59·1	59·7
19	59·1	59·1	58·6	57·8	55·5	54·3	53·0	54·1	55·5	56·6	57·8	60·9	63·2	64·9	65·5	65·7	64·7	63·8	61·8	61·5	60·9	59·0	59·7	59·9	59·7	59·7
20	59·7	58·8	59·0	59·3	55·9	53·6	52·2	51·4	53·2	54·9	57·2	61·1	64·6	65·9	66·9	65·9	63·0	61·5	61·7	61·1	59·7	59·5	59·3	59·5	60·3	59·4
21	60·3	59·9	59·1	59·0	57·4	55·1	53·7	53·4	53·9	55·1	57·2	59·5	61·8	63·2	63·4	65·1	66·9	65·7	65·9	64·0	61·3	60·5	60·5	59·5	58·8	60·0
22	58·9	58·1	57·7	57·3	55·8	55·6	56·9	56·5	55·4	55·8	56·5	58·7	62·1	62·9	63·7	63·5	59·4	60·8	59·6	59·4	60·8	60·4	58·9	59·6	60·0	58·9
23	60·0	59·2	59·1	55·6	54·0	53·8	53·7	54·4	56·0	58·3	59·4	61·6	63·3	64·7	65·4	64·5	63·5	62·1	60·0	60·2	61·4	61·4	61·0	58·5	57·5	59·6
24	57·5	58·1	56·5	57·7	57·5	55·0	54·4	55·4	56·2	56·2	58·3	59·6	62·5	62·3	62·7	61·8	61·6	61·2	61·0	61·4	61·0	59·1	56·5	58·9	59·1	58·9
25 Q	59·1	58·1	57·7	56·2	55·4	56·0	55·0	56·4	56·0	57·5	58·5	60·8	62·9	65·2	65·2	63·7	62·5	62·7	62·9	62·1	61·6	61·4	61·6	61·2	60·0	60·0
26 D	60·0	59·4	58·5	56·9	55·6	55·2	53·7	53·1	53·3	54·6	57·7	59·8	61·8	62·9	62·7	65·0	71·6	69·7	68·1	66·6	62·7	66·0	63·5	44·6	50·9	59·9
27 D	50·9	54·8	57·3	58·3	58·1	52·7	51·5	52·7	56·4	58·1	62·9	65·2	68·5	67·5	66·0	65·8	63·7	57·1	61·0	61·6	61·2	56·2	56·5	58·7	61·8	59·5
28 D	61·8	50·9	49·2	51·7	57·5	55·0	54·0	53·3	55·6	57·7	60·0	61·0	63·7	67·5	65·2	63·3	62·9	63·3	62·1	61·4	57·5	54·4	57·1	57·5	57·3	58·4
29	57·3	56·2	56·0	56·9	54·6	54·0	53·8	53·1	53·7	54·8	58·9	59·4	59·2	61·8	62·7	62·7	61·8	61·0	61·2	61·2	60·8	59·6	59·6	59·4	59·2	58·4
30	59·2	59·4	59·2	58·1	54·8	53·7	53·5	54·0	55·6	56·4	58·9	61·6	62·7	61·4	60·6	61·4	63·3	63·5	61·6	59·8	59·4	60·0	60·0	59·4	59·1	59·1
Mean	58·4	57·3	57·2	56·5	55·7	55·4	54·4	54·3	55·1	56·2	58·9	61·3	63·8	65·3	65·5	64·9	64·1	63·1	62·4	61·4	60·7	59·8	59·3	58·3	58·3	59·6

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

27. Lerwick. (V.) 46,000 γ (·46 C.G.S. unit) + **June, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	586	586	589	590	590	588	586	581	579	575	570	566	564	567	590	613	636	636	651	668	655	644	548	502	570	594
2 D	570	606	635	646	632	615	595	617	629	636	647	633	640	641	641	661	678	687	696	675	667	646	637	593	498	**637**
3	498	514	584	604	613	608	607	611	616	617	614	607	606	611	615	619	622	623	629	628	627	621	619	617	607	608
4	607	605	611	616	615	614	618	618	617	613	596	598	595	598	602	604	605	605	610	611	613	608	606	606	607	608
5 Q	607	607	608	610	611	613	613	610	607	601	599	597	597	601	591	583	591	602	605	608	611	611	599	597	595	603
6	595	580	578	590	596	603	606	608	606	599	595	588	579	585	598	605	604	612	624	619	618	617	613	608	598	601
7	598	595	590	597	603	609	611	612	612	611	609	604	599	601	605	611	613	626	630	626	618	619	613	604	608	609
8	608	609	606	605	601	606	604	607	610	600	594	591	591	595	590	595	608	607	616	613	632	624	604	562	535	602
9 D	535	507	418	376	399	426	487	535	572	592	597	599	626	622	612	601	596	609	616	618	615	610	602	581	572	**557**
10	572	584	590	591	585	585	575	580	572	578	578	582	589	584	589	610	605	609	615	617	614	610	609	605	604	593
11	604	603	587	502	536	564	589	592	585	588	594	601	600	602	594	601	624	610	601	598	599	600	601	580	528	588
12	528	476	495	542	580	599	603	603	602	604	596	592	594	600	614	606	622	638	628	625	618	612	596	573	577	590
13	577	578	591	598	596	590	586	592	598	600	598	594	593	598	599	603	610	605	604	610	606	603	601	594	571	597
14	571	565	583	589	591	586	587	586	583	581	578	579	578	583	584	581	587	597	594	600	601	598	596	592	574	586
15 Q	574	566	575	576	577	588	586	589	584	576	572	569	570	575	579	580	589	592	595	596	594	594	595	593	584	583
16 Q	584	591	594	596	597	597	594	593	589	583	584	584	581	580	589	594	594	599	596	592	594	594	595	583	580	591
17 Q	580	592	596	600	602	602	600	598	598	595	596	589	580	587	586	587	590	598	601	602	596	596	593	594	593	594
18	593	590	577	572	579	587	589	585	577	576	581	581	581	581	582	585	592	593	595	596	594	593	591	590	588	586
19	588	587	587	590	594	595	595	593	587	585	588	587	585	584	587	590	597	600	602	602	607	607	602	599	596	593
20	596	596	598	598	598	602	603	604	606	608	605	598	588	583	583	583	598	609	610	605	605	604	600	599	598	599
21	598	598	597	601	598	598	597	601	601	595	595	591	594	595	595	595	603	607	610	615	631	619	613	608	606	602
22	606	604	605	606	608	608	607	602	601	599	599	605	608	610	608	609	616	627	625	630	619	613	614	607	605	610
23	605	603	605	603	605	605	604	604	600	601	604	607	606	605	605	604	607	608	617	620	617	615	613	610	600	607
24	600	597	600	605	603	601	606	611	607	603	605	602	600	597	598	602	610	609	609	603	606	611	610	607	605	604
25 Q	605	605	605	604	605	601	593	592	596	598	596	590	589	588	592	597	599	602	599	596	594	598	600	599	598	597
26 D	598	598	597	598	592	588	582	580	583	586	585	579	569	567	574	569	576	588	583	597	596	590	557	482	515	578
27 D	515	545	554	541	548	560	577	576	579	580	585	586	594	587	600	603	639	650	633	620	609	591	573	564	555	585
28 D	555	505	480	501	512	538	561	575	582	582	581	579	583	593	597	607	611	601	592	592	591	583	571	512	530	565
29	530	567	582	581	578	578	581	584	584	583	578	577	589	586	590	591	591	598	594	594	595	597	594	592	594	585
30	594	595	595	596	595	596	596	593	595	593	596	592	586	582	585	596	603	603	601	600	602	599	597	596	597	595
Mean	579	**579**	580	581	585	588	591	594	595	595	594	592	592	593	596	599	607	612	**613**	613	611	608	599	585	580	595

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS:

28. Lerwick. MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **June, 1931.**

Day.	Terrestrial Magnetic Elements. Horizontal Force. Maximum 14,000 γ +		Minimum 14,000 γ +		Range.	Declination. Maximum 14° +		Minimum 14° +		Range.	Vertical Force. Maximum 46,000 γ +		Minimum 46,000 γ +		Range.	Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2)	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ			°A.
1	17 41	613	345	22 47	268	13 11	9·8	−18·8	22 53	28·6	19 8	673	467	23 5	206	1289	2	83·3
2 D	13 34	638	417	9 19	221	12 4	14·1	−11·4	3 33	25·5	17 54	**714**	490	23 46	224	1107	2	83·1
3	18 37	569	439	0 17	130	0 7	7·4	−6·5	2 33	13·9	18 10	633	479	0 28	154	441	1	82·9
4	17 46	567	496	10 42	71	0 1	5·5	−6·2	5 30	11·7	7 30	620	593	11 49	27	82	0	82·5
5 Q	20 22	572	505	10 12	67	13 9	7·4	−8·9	5 44	16·3	5 53	618	581	14 45	37	106	1	82·5
6	18 26	607	500	10 25	107	13 33	8·6	−9·5	6 54	18·1	17 58	626	573	1 52	53	202	1	82·7
7	16 23	559	488	10 44	71	13 12	8·6	−6·6	6 0	15·2	18 5	631	586	1 55	45	112	1	82·8
8	19 26	612	475	23 38	137	16 54	8·4	−17·3	20 7	25·7	20 0	666	536	23 32	130	475	1	82·8
9 D	16 43	573	**282**	3 45	**291**	4 42	**23·1**	**−20·3**	0 43	**43·4**	12 26	633	**357**	2 34	**276**	1947	2	83·5
10	17 52	612	494	9 10	118	14 15	7·6	−10·7	5 21	18·3	18 26	624	569	5 56	55	229	1	83·3
11	15 4	575	485	10 53	90	2 25	10·3	−12·0	23 46	22·3	15 44	632	477	2 47	155	410	1	83·3
12	16 7	604	484	9 20	120	12 47	9·6	−12·0	0 32	21·6	16 37	647	472	0 55	175	533	1	83·2
13	20 59	565	497	10 50	68	14 50	7·1	−8·2	7 39	15·3	19 15	614	568	24 0	46	110	1	83·4
14	19 32	574	500	8 54	74	13 58	4·0	−7·6	7 59	11·6	19 23	604	561	1 0	43	97	1	84·0
15 Q	18 58	556	497	8 52	59	14 7	3·4	−8·2	4 19	11·6	18 51	598	562	0 22	36	71	0	84·0
16 Q	19 14	561	513	12 0	**48**	14 22	5·5	−6·4	24 0	11·9	17 21	601	577	12 35	24	54	0	83·5
17 Q	19 50	562	510	10 38	52	14 5	6·1	−6·4	0 6	12·5	18 50	603	579	11 50	24	61	0	83·5
18	18 13	557	500	10 44	57	13 35	6·9	−7·4	6 42	14·3	18 36	598	563	2 24	35	81	0	84·0
19	19 25	570	483	10 55	87	14 53	6·3	−8·4	5 31	14·7	20 24	611	582	13 18	29	123	0	84·2
20	18 58	552	494	11 40	58	14 22	7·3	−9·9	7 23	17·2	17 8	611	578	13 35	33	98	0	84·2
21	19 0	619	509	13 7	110	16 13	7·3	−7·0	6 36	14·3	19 43	635	590	10 57	45	177	1	83·8
22	17 54	577	490	12 17	87	14 50	4·8	−6·2	7 21	11·0	18 25	639	596	8 56	43	116	1	83·4
23	17 53	562	497	10 51	65	14 20	5·8	−7·5	5 55	13·3	18 20	624	600	8 4	24	79	0	83·2
24	18 36	561	498	10 13	63	13 59	3·3	−6·5	5 25	**9·8**	16 5	614	596	0 30	18	60	0	83·2
25 Q	19 47	553	486	10 44	67	13 5	5·6	−6·3	6 12	11·9	0 40	606	591	7 15	**15**	72	0	83·2
26 D	17 54	**640**	451	23 5	189	16 16	12·9	−17·5	23 19	30·4	1 0	600	456	23 9	144	731	2	83·8
27 D	16 43	608	477	12 8	131	11 39	11·2	−10·4	6 5	21·6	16 16	662	512	0 0	150	479	1	84·1
28 D	20 17	598	434	1 18	164	13 26	8·9	−19·9	23 17	28·8	15 57	614	460	1 21	154	655	1	84·6
29	16 36	568	476	11 15	92	14 38	3·3	−8·3	7 48	11·6	17 8	601	530	0 5	71	159	0	84·7
30	19 17	560	494	10 24	66	17 2	4·3	−8·3	5 53	12·6	15 58	605	579	13 45	26	78	0	84·6
Mean	—	581	474	—	108	—	7·9	−9·9	—	17·8	—	625	542	—	83	341	0·73	83·5
No. of Days used	—	30	30	—	30	—	30	30	—	30	—	30	30	—	30	30	30	30

§ For explanation see p. 32. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

29. Lerwick. (H.) 14,000 γ (·14 C.G.S. unit) + **July, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	535	533	534	535	534	532	526	517	510	499	497	495	504	523	539	548	548	548	554	548	548	547	544	546	540	531
2	540	543	533	535	544	551	539	529	517	504	503	504	507	526	509	544	549	558	562	568	572	545	503	532	529	534
3	529	529	531	531	533	535	525	519	512	511	506	500	505	522	512	530	537	561	555	560	562	546	538	533	533	530
4	533	533	533	533	532	525	522	520	517	508	494	483	489	499	513	536	546	565	571	565	562	559	539	535	532	530
5	532	528	530	529	522	524	521	521	510	498	488	481	479	491	504	517	538	543	547	546	550	545	545	536	527	522
6	527	525	520	519	528	528	521	510	504	497	498	502	497	504	500	509	531	552	566	568	555	543	534	532	529	524
7	529	527	526	529	528	526	525	518	510	503	496	496	505	509	517	521	536	547	559	565	557	546	537	531	521	527
8	521	530	530	533	536	535	525	514	507	507	504	504	505	513	521	525	532	538	543	546	542	540	535	527	525	526
9 Q	525	525	525	527	528	529	527	522	516	512	509	505	504	507	514	521	538	539	540	546	547	548	538	530	528	526
10 Q	528	525	525	527	528	529	526	520	512	507	504	501	501	508	515	520	528	534	538	543	553	547	542	540	529	525
11	529	540	539	540	540	540	517	505	517	523	514	506	500	522	527	522	539	552	572	567	566	560	541	530	531	534
12	531	528	536	535	532	522	516	508	500	495	494	492	504	517	520	529	537	543	542	549	549	551	544	545	543	526
13	543	542	534	535	532	526	531	525	516	503	494	490	508	512	527	545	542	547	553	554	561	550	544	542	537	531
14	537	531	528	525	524	524	511	512	518	506	475	463	488	523	530	521	543	562	541	548	548	543	536	531	530	524
15	530	529	529	528	527	521	521	511	470	457	491	500	502	507	510	526	526	525	525	535	539	542	532	538	529	518
16	529	518	507	496	524	524	519	504	490	487	479	479	487	498	511	523	530	540	532	529	529	531	532	532	537	514
17	537	530	541	522	518	519	514	505	496	491	489	490	493	500	511	521	534	534	531	534	534	531	533	535	537	518
18	537	531	530	526	525	526	524	509	499	490	486	491	496	513	525	527	530	540	547	544	544	537	533	526	526	522
19 Q	525	525	525	526	526	526	519	512	502	490	484	487	495	504	521	525	541	539	535	534	535	535	534	529	526	520
20 Q	525	525	525	528	528	529	522	515	506	498	493	493	495	506	515	521	538	540	552	556	543	543	538	534	538	524
21 Q	537	528	532	535	533	533	523	519	514	508	500	494	498	501	516	522	526	547	553	553	547	545	536	533	531	526
22	530	525	525	525	527	528	523	517	512	501	500	497	501	509	527	539	537	532	533	538	541	542	538	535	533	524
23 D	532	531	529	532	548	553	555	540	523	510	499	479	501	499	543	580	628	698	575	570	543	529	528	504	439	**541**
24 D	439	501	518	513	521	525	520	513	501	474	466	496	503	507	520	534	533	530	538	539	535	537	531	528	528	515
25 D	528	522	518	523	506	506	493	499	506	489	471	466	489	525	544	547	561	559	569	553	548	536	525	517	452	519
26 D	452	471	519	532	503	509	520	495	493	494	488	477	486	488	505	524	543	546	546	547	546	537	528	525	527	**513**
27	527	521	517	519	519	518	513	506	494	492	490	490	491	517	527	533	538	532	535	546	538	534	526	530	531	519
28 D	531	536	536	528	510	496	527	520	499	490	484	488	476	511	543	527	538	528	554	554	531	537	513	465	519	517
29	519	525	523	511	518	518	493	493	501	499	488	486	494	509	532	538	548	545	534	533	538	534	540	528	506	518
30	506	487	515	507	499	516	520	513	498	492	496	489	493	510	517	532	531	530	528	540	540	536	533	521	518	515
31	518	502	513	522	523	524	522	515	498	490	489	491	495	498	511	523	527	533	533	533	533	531	528	527	526	516
Mean	524	524	526	526	526	526	521	514	505	498	493	**491**	496	509	520	530	540	548	547	**549**	546	542	534	529	524	524

MAGNETIC DECLINATION (WEST).

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

30. Lerwick. (D.) 13° + **July, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	58·7	57·9	57·5	57·5	55·8	54·0	53·5	53·8	55·2	56·7	59·8	63·1	65·4	65·2	64·8	64·7	63·3	62·5	61·6	60·8	60·4	60·0	58·1	59·2	59·1	59·6
2	59·1	57·9	55·2	53·8	53·3	51·3	50·9	50·9	52·9	56·2	61·0	62·3	64·5	66·8	67·4	67·4	64·3	61·0	59·4	59·4	59·6	56·2	55·6	52·1	53·3	58·1
3	53·3	54·2	54·6	54·6	52·7	51·3	49·8	50·9	51·7	53·5	56·2	59·8	63·5	65·8	67·2	67·0	64·7	64·5	61·2	59·6	56·9	57·9	59·4	58·7	59·4	58·0
4	59·4	57·5	57·3	57·1	56·0	55·2	54·2	53·8	51·9	53·8	56·5	59·4	63·1	65·4	67·0	67·2	65·2	63·1	61·8	60·4	53·8	50·2	54·6	56·7	57·5	58·3
5	57·5	57·1	56·4	55·6	55·4	56·0	55·6	54·2	53·7	55·4	57·1	59·4	62·1	64·5	65·6	65·6	65·0	63·1	61·6	60·0	59·8	60·2	58·9	58·9	57·5	59·1
6	57·5	57·9	56·2	55·4	53·5	52·3	52·3	52·9	53·5	54·4	57·3	59·6	61·6	63·5	64·1	63·9	64·5	63·7	59·8	58·7	59·6	60·0	60·0	59·8	59·2	58·5
7	59·2	58·1	57·5	57·1	54·8	53·9	52·1	51·2	51·7	52·5	55·8	59·4	62·7	65·2	65·6	65·4	64·5	63·7	62·9	61·4	61·4	63·7	59·4	56·2	57·1	58·9
8	57·1	59·1	55·0	55·2	54·6	53·3	51·5	50·9	52·5	53·1	55·6	57·7	60·6	63·1	63·7	63·3	62·5	60·8	60·0	59·8	59·4	59·8	59·8	60·0	57·9	57·9
9 Q	57·9	56·7	56·4	56·2	55·4	54·6	51·7	50·6	52·1	54·0	56·9	61·0	63·9	64·1	63·9	63·7	63·5	62·1	61·2	60·8	61·0	61·0	59·6	59·6	57·1	58·6
10 Q	57·1	57·1	56·2	54·0	54·0	54·2	54·0	53·7	54·0	55·6	57·7	60·4	62·7	63·3	63·3	63·1	62·3	60·8	60·0	59·6	60·6	61·0	59·4	57·3	57·5	58·4
11	57·5	55·2	55·2	55·0	55·6	55·2	55·2	57·7	57·7	58·1	59·4	62·3	65·4	68·5	69·3	67·9	67·2	65·4	66·6	66·4	63·9	60·2	61·6	55·4	54·8	**60·9**
12	54·8	53·7	52·3	50·9	51·9	51·3	51·7	52·3	54·0	56·2	59·4	63·1	64·5	66·0	64·8	63·3	61·9	61·0	60·0	60·6	61·0	61·0	60·2	59·8	59·6	58·3
13	59·6	59·8	59·8	57·5	51·7	49·4	51·3	53·0	55·6	56·0	59·6	61·9	65·2	66·0	65·2	62·9	62·9	61·8	60·2	61·6	61·9	61·2	60·8	60·2	59·2	59·4
14	59·2	58·5	57·5	56·9	55·6	53·5	52·7	54·2	53·7	54·4	57·3	63·3	68·7	67·0	65·8	66·8	65·6	63·9	58·5	56·2	59·8	60·8	60·4	59·6	58·9	59·6
15	58·9	59·1	57·7	59·1	56·0	56·9	54·2	53·7	55·0	61·0	60·0	60·4	63·1	66·4	67·4	65·2	63·3	61·4	59·4	58·7	59·1	59·4	57·5	56·2	57·7	59·5
16	57·7	57·9	61·9	56·2	54·4	54·0	53·8	54·8	54·2	54·6	56·0	58·1	61·9	64·8	66·4	65·0	62·5	60·4	59·2	58·7	58·5	58·7	59·1	59·6	57·5	58·7
17	57·5	60·0	57·1	56·0	55·0	54·0	52·5	52·5	53·1	55·8	57·5	60·0	63·1	63·3	62·7	61·6	60·0	59·2	59·2	59·4	59·4	59·6	59·4	58·7	57·3	58·2
18	57·3	57·5	57·7	56·2	56·0	53·3	53·8	54·8	57·5	59·1	61·6	63·3	63·9	64·8	64·7	62·1	61·2	60·2	60·2	60·8	60·4	59·4	57·7	57·3	57·1	59·2
19 Q	57·1	57·1	56·5	57·1	56·5	55·4	53·3	51·9	52·1	53·1	55·8	59·8	62·7	63·9	65·0	62·9	60·8	60·0	59·4	59·2	59·1	59·1	58·5	58·3	58·7	58·1
20 Q	58·7	58·1	57·3	57·3	56·4	55·2	54·0	53·7	53·1	52·5	55·8	60·4	64·3	65·4	65·4	64·5	62·5	60·0	59·6	60·0	60·0	60·4	60·6	59·6	58·3	58·9
21 Q	58·3	56·7	57·3	56·0	54·4	54·2	54·4	54·2	53·1	54·8	57·1	60·6	62·1	62·5	63·5	63·5	62·1	61·9	61·6	60·2	59·6	57·3	59·1	59·8	59·2	58·5
22	59·2	57·9	56·7	55·6	55·4	54·8	53·8	53·7	53·7	56·5	58·3	60·2	62·1	64·1	64·5	63·9	62·1	61·0	59·8	59·4	59·1	59·1	59·1	59·1	59·1	58·7
23 D	59·1	58·5	58·7	58·1	54·2	53·3	52·1	49·2	50·9	54·8	57·5	63·5	69·9	69·1	67·7	66·6	64·8	60·4	62·3	63·9	55·8	60·8	59·2	61·6	57·9	59·6
24 D	57·9	53·7	49·0	54·8	56·5	52·9	51·9	53·5	53·7	57·3	59·2	59·8	61·4	61·4	59·8	59·6	58·9	58·9	59·2	59·4	59·6	59·4	57·9	57·1	57·7	57·2
25 D	57·7	57·9	53·8	55·2	55·2	55·8	56·0	53·8	54·0	58·1	59·1	59·1	59·8	63·3	61·6	63·1	63·7	59·8	61·9	63·3	61·4	59·8	59·4	60·2	57·7	58·9
26 D	57·7	51·7	49·0	51·5	52·5	55·8	56·5	56·5	58·7	56·9	57·1	58·5	61·8	63·3	63·3	62·1	61·8	60·8	59·6	58·7	54·6	57·5	57·9	57·9	58·7	57·6
27	58·7	57·5	55·6	55·0	55·0	54·2	53·7	54·0	55·2	55·4	57·3	59·2	61·8	63·3	64·1	61·9	60·4	59·4	59·2	59·2	58·5	57·3	57·7	58·5	57·9	58·0
28 D	57·9	57·5	55·2	55·4	56·4	57·3	52·1	51·5	52·9	55·0	59·1	61·9	68·9	69·9	66·8	65·4	64·3	62·7	61·6	57·3	56·7	57·7	56·0	61·9	57·3	59·2
29	57·3	52·1	54·0	56·0	56·2	55·4	55·4	55·8	55·6	54·4	55·2	58·1	62·3	65·4	65·8	61·8	61·2	60·8	60·6	60·2	60·0	57·9	55·2	54·8	55·2	57·9
30	55·2	54·8	53·3	55·2	57·9	52·7	50·2	51·5	53·7	54·8	57·1	59·8	62·5	64·1	63·3	61·8	59·4	57·5	57·3	57·9	58·1	55·8	53·5	55·6	55·6	**56·8**
31	55·6	57·5	57·5	55·2	55·4	54·4	53·8	53·7	53·8	56·2	57·9	60·2	62·9	64·8	64·7	62·3	60·4	59·4	58·7	58·1	58·1	58·1	57·9	57·5	57·1	58·1
Mean	57·7	57·0	56·0	55·7	55·0	54·0	**53·2**	53·2	53·9	55·5	57·8	60·5	63·5	65·0	**65·0**	64·1	62·8	61·3	60·4	60·0	59·3	59·1	58·5	58·3	57·7	58·6

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

31. Lerwick. (V.) 46,000 γ (·46 C.G.S. unit) + **July, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	598	606	607	607	606	606	603	602	602	601	594	590	582	582	584	587	591	592	595	597	593	591	590	583	581	595
2	581	578	583	588	592	590	591	588	585	583	579	571	571	574	589	591	599	602	598	593	596	604	562	539	564	584
3	564	581	590	591	591	594	601	604	602	597	589	581	577	576	590	597	611	608	619	616	612	608	600	595	592	596
4	592	588	594	596	599	602	600	596	592	592	593	589	584	582	584	590	600	606	612	616	610	600	597	595	591	596
5	591	593	594	599	601	595	595	597	597	596	597	592	590	587	589	592	594	597	597	600	601	601	592	582	587	594
6	587	588	588	591	589	594	597	598	591	587	585	583	588	585	583	580	577	583	599	609	607	603	600	598	598	591
7	598	597	597	596	595	593	590	592	593	594	598	602	603	596	593	595	597	601	601	604	610	603	591	598	599	597
8	599	574	582	593	594	596	599	599	595	593	592	591	593	593	594	595	596	594	592	594	597	596	596	593	583	593
9 Q	583	586	587	585	584	584	585	581	580	577	583	581	581	580	578	580	580	583	583	583	583	584	591	585	577	**583**
10 Q	577	582	584	585	589	591	592	593	592	595	601	599	597	591	588	590	593	599	604	603	604	606	610	594	594	594
11	594	587	595	599	599	597	605	598	585	587	595	595	594	591	596	606	610	612	610	616	616	614	615	609	603	601
12	603	604	593	597	601	603	602	599	597	596	594	592	597	596	600	603	602	605	605	604	605	605	606	603	604	601
13	604	605	606	601	598	597	589	595	598	599	602	605	603	607	607	606	617	621	630	630	624	623	614	611	611	608
14	611	613	613	613	606	603	606	600	600	603	620	622	602	588	593	610	610	614	641	641	627	617	612	610	607	611
15	607	609	609	606	605	607	604	599	607	606	594	594	593	599	603	601	612	618	614	609	603	603	604	591	579	603
16	579	582	553	524	575	585	588	593	590	587	592	591	594	595	592	594	600	605	606	604	603	601	599	597	581	589
17	581	565	570	588	600	605	606	607	605	603	601	599	600	604	609	610	612	620	619	614	609	608	607	604	599	602
18	599	598	604	607	610	609	610	611	604	603	602	593	593	595	601	609	617	619	619	619	616	615	610	608	606	607
19 Q	606	605	607	609	610	610	611	610	607	604	601	592	592	593	597	609	616	616	615	613	612	612	611	611	608	607
20 Q	608	608	609	611	614	617	619	618	613	609	607	602	601	601	605	617	622	626	628	628	628	624	624	620	613	615
21 Q	613	618	618	615	620	617	619	615	620	617	615	614	612	612	613	621	627	628	629	630	633	629	623	621	617	620
22	617	618	616	615	616	617	618	617	615	618	617	615	610	601	596	599	610	612	609	610	613	614	614	613	612	612
23 D	612	610	608	602	591	593	594	600	601	599	599	610	607	619	604	602	664	740	721	670	664	614	614	593	476	619
24 D	476	522	575	593	601	612	623	623	628	636	647	633	629	626	625	632	641	636	634	635	638	636	638	636	633	619
25 D	633	610	607	617	615	613	615	622	621	627	632	642	646	656	712	698	704	707	700	684	669	652	625	621	525	645
26 D	525	521	543	559	582	605	608	619	617	622	628	630	633	646	656	653	644	639	644	653	656	649	644	639	621	619
27	621	615	625	632	638	644	645	643	645	648	648	644	648	648	645	644	645	649	645	653	653	657	653	648	648	643
28 D	648	648	643	636	640	601	598	624	633	634	636	633	639	651	680	668	667	669	667	679	653	638	580	514	553	635
29	553	613	636	638	634	643	645	638	638	643	648	647	646	646	649	666	677	675	666	659	656	659	647	642	617	646
30	617	586	608	631	626	629	643	650	654	656	650	650	652	653	657	656	658	663	663	660	662	665	658	651	642	646
31	642	634	633	645	654	653	656	656	657	653	653	654	651	652	654	658	660	665	667	668	667	664	664	665	666	**656**
Mean	**594**	595	599	602	606	607	608	609	609	609	609	608	607	607	612	615	621	626	**627**	625	623	619	613	606	596	611

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS: MAGNETIC CHARACTER FIGURES; TEMPERATURE IN MAGNET HOUSE.

32. Lerwick. **July, 1931.**

Day.	Terrestrial Magnetic Elements. Horizontal Force. Maximum 14,000 γ +		Minimum 14,000 γ +		Range.	Declination. Maximum 13° +		Minimum 13° +		Range.	Vertical Force. Maximum 46,000 γ +		Minimum 46,000 γ +		Range.	Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2).	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ			°A.
1	17 58	559	476	11 45	83	12 8	66·0	52·3	5 37	13·7	2 40	608	575	23 20	33	113	1	84·9
2	18 40	577	445	22 0	132	21 47	68·7	**43·4**	22 17	**25·3**	21 20	611	532	22 43	79	351	1	85·1
3	20 0	568	489	11 0	79	14 34	67·9	48·4	6 0	19·5	18 15	625	564	0 1	61	167	1	85·2
4	18 29	583	480	10 58	103	14 26	67·5	47·1	20 15	20·4	19 6	622	579	13 28	43	199	1	85·3
5	19 55	553	477	11 52	76	14 10	66·0	53·3	8 5	12·8	4 15	604	579	22 54	25	93	0	85·5
6	18 41	574	492	12 9	82	16 13	65·4	51·7	5 45	13·7	19 16	610	575	15 39	35	113	1	85·9
7	19 33	570	492	10 20	78	21 5	66·2	50·6	7 24	15·6	20 59	617	579	21 22	38	119	1	85·9
8	18 40	549	494	11 33	55	0 40	64·3	49·8	6 37	14·5	6 32	601	568	1 14	33	78	1	85·7
9 Q	20 43	551	502	12 32	49	12 40	64·5	50·4	7 31	14·1	22 30	593	574	23 30	**19**	64	0	86·8
10 Q	20 13	555	498	11 25	57	12 53	63·7	53·3	5 27	**10·4**	22 29	612	577	0 1	35	64	0	86·7
11	18 11	582	494	11 57	88	13 56	70·2	53·7	23 52	16·5	19 28	620	583	0 38	37	140	1	86·0
12	19 56	559	488	9 35	71	13 5	66·6	49·8	2 38	16·8	17 23	608	587	2 30	21	105	1	85·9
13	19 37	571	487	10 43	84	12 43	67·3	47·2	5 17	20·1	18 30	635	584	5 56	51	169	1	85·8
14	17 18	579	451	10 45	128	12 0	69·3	51·3	5 38	18·0	18 0	647	586	13 17	61	259	1	85·4
15	22 41	548	441	8 57	107	14 0	67·9	52·3	22 37	15·6	17 0	620	577	23 45	43	177	1	85·4
16	23 46	548	475	10 34	73	2 10	70·2	52·5	6 11	17·7	17 55	608	493	2 37	115	242	1	86·0
17	16 2	544	485	10 20	59	12 30	63·7	51·5	6 7	12·2	17 17	623	560	1 25	63	102	1	86·0
18	17 55	555	483	9 35	72	13 50	65·4	51·7	5 17	13·7	18 20	621	588	11 32	33	96	0	85·6
19 Q	15 55	546	481	10 8	65	14 10	65·4	51·5	7 33	13·9	16 18	618	590	11 16	28	85	0	85·4
20 Q	18 45	563	491	11 12	72	14 15	65·8	51·7	8 40	14·1	19 38	633	599	13 0	34	99	0	84·8
21 Q	18 0	558	491	11 21	67	14 18	64·1	52·5	7 49	11·6	20 36	635	611	14 5	24	75	0	84·5
22	19 43	543	492	10 23	**51**	13 35	65·0	52·9	8 0	12·1	1 5	621	595	13 48	26	59	0	84·9
23 D	16 40	**755**	**378**	23 46	**377**	12 25	70·6	47·7	19 52	22·9	17 7	**776**	481	24 0	**295**	2386	2	85·0
24 D	15 18	555	442	0 1	113	12 11	62·3	47·1	2 20	15·2	9 49	658	**439**	0 17	219	648	1	85·4
25 D	17 26	582	461	10 14	121	13 30	67·0	51·3	6 33	15·7	14 5	733	489	24 0	244	785	1	85·8
26 D	18 45	555	389	0 30	166	14 0	64·8	45·7	1 47	19·1	14 22	663	486	0 3	177	654	1	86·1
27	19 32	548	487	12 7	61	13 50	64·8	53·1	6 17	11·7	20 40	658	613	0 48	45	81	0	86·2
28 D	13 46	596	417	22 44	179	13 11	**72·8**	48·8	22 6	24·0	19 8	692	503	23 22	189	790	1	86·2
29	15 15	562	481	6 36	81	13 36	67·2	50·9	0 49	16·3	17 22	680	554	0 1	126	272	1	86·4
30	21 31	548	456	0 43	92	13 12	65·2	47·3	0 32	17·9	21 20	670	578	0 28	92	227	1	86·3
31	17 14	537	485	10 32	52	13 12	65·2	52·9	7 30	12·3	17 30	669	627	1 35	42	72	0	86·2
Mean	—	567	471	—	96	—	66·5	50·4	—	16·0	—	638	562	—	76	287	0·71	85·7
No. of Days used.	—	31	31	—	31	—	31	31	—	31	—	31	31	—	31	31	31	31

§ For explanation *see* p. 32. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

33. Lerwick. (H.) 14,000 γ (·14 C.G.S. unit) + **August, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	526	526	525	520	520	522	520	519	512	509	509	511	516	520	514	523	527	529	545	545	546	548	527	523	523	524
2 Q	523	521	521	522	522	521	518	509	504	498	493	488	483	493	515	535	536	541	542	535	532	531	532	531	539	519
3	539	538	540	542	527	535	521	493	500	507	499	489	490	502	516	524	531	537	540	542	543	541	537	536	536	524
4	536	531	527	529	536	534	529	516	504	505	505	497	497	504	516	523	536	545	541	547	538	532	534	531	532	525
5	532	532	531	524	527	531	529	524	513	504	493	494	498	511	530	515	533	560	548	544	541	525	526	518	521	524
6	521	520	526	523	520	526	521	513	507	497	494	487	501	510	504	512	520	525	538	550	538	535	533	535	535	519
7	535	536	535	538	537	540	539	533	525	508	501	484	497	516	534	536	546	555	547	537	532	528	531	538	506	**529**
8 D	506	479	522	519	524	503	518	524	521	500	507	483	488	508	528	535	554	530	552	556	536	509	520	519	469	518
9 D	469	444	465	455	520	532	517	496	494	505	495	478	487	503	542	567	565	537	542	539	555	530	504	513	512	511
10	512	513	515	519	519	512	509	512	506	504	496	494	497	510	515	527	523	525	530	528	531	537	523	514	510	515
11	510	499	516	514	468	493	483	496	512	492	491	484	490	509	520	523	521	528	533	547	537	527	522	520	521	510
12 Q	521	520	518	515	519	518	513	507	501	494	483	482	499	509	519	517	519	526	528	526	533	530	524	526	522	514
13	522	521	514	516	518	516	518	520	512	503	503	504	510	520	532	552	520	528	529	538	532	531	527	524	520	521
14	520	520	521	522	511	503	520	516	503	487	493	489	502	509	524	522	524	526	528	529	529	530	523	522	521	516
15	521	521	521	517	519	521	521	518	511	504	498	495	498	505	521	530	529	533	537	537	534	529	517	510	508	518
16	508	503	515	507	501	522	524	522	513	504	503	499	484	487	525	542	548	549	541	534	538	539	530	512	521	519
17 Q	521	514	517	520	519	517	508	501	491	484	486	490	501	514	522	526	533	526	526	528	528	527	527	529	526	515
18 Q	526	520	519	520	521	521	520	513	510	503	491	485	490	498	508	514	522	527	527	530	532	534	527	530	526	516
19	526	518	516	513	526	529	525	522	512	500	486	473	482	500	525	532	538	536	542	544	538	535	518	482	501	517
20 D	501	527	517	517	518	531	476	429	476	492	484	475	481	508	533	537	544	532	545	548	539	516	514	519	500	511
21 D	500	519	522	515	507	485	507	492	499	503	494	481	482	513	549	543	546	550	533	538	532	531	513	498	515	515
22	515	514	515	518	518	517	515	509	501	495	494	501	511	519	522	521	524	524	529	528	527	525	524	523	522	516
23	522	519	508	513	522	522	516	513	506	490	498	505	513	518	525	534	523	531	525	531	531	530	530	530	536	519
24	536	532	524	526	522	522	525	518	508	502	504	503	513	520	520	522	534	537	543	537	536	539	522	470	483	520
25 D	483	523	520	505	400	459	519	497	480	483	488	482	481	510	525	538	548	555	555	547	526	525	525	520	518	509
26	518	516	512	505	505	512	509	506	497	478	485	486	491	514	517	524	529	529	533	531	536	523	506	504	506	511
27	506	513	503	517	521	515	504	495	490	487	499	502	503	512	521	510	535	543	530	534	530	533	498	537	514	514
28	514	468	493	506	510	513	511	498	465	454	477	494	492	511	523	531	517	520	523	525	525	523	521	518	515	**506**
29	515	511	512	515	513	504	505	509	505	497	494	500	502	509	514	508	508	511	515	525	527	520	517	516	513	510
30 Q	513	511	513	513	510	512	513	511	505	495	484	481	488	499	510	519	522	525	528	532	530	526	523	519	517	512
31	517	518	512	519	519	519	518	517	508	498	489	487	500	509	517	515	522	528	539	534	535	531	524	524	523	517
Mean	517	514	517	516	513	516	515	508	503	496	494	**490**	496	509	522	528	531	534	536	**537**	534	530	522	519	516	517

MAGNETIC DECLINATION (WEST).

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

34. Lerwick. (D.) 13° + **August, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	57·1	56·7	56·4	56·0	54·6	53·5	51·7	52·3	53·8	55·2	56·7	59·6	63·1	65·6	64·7	62·3	61·6	61·0	60·4	59·4	59·6	56·2	54·6	55·8	56·5	57·8
2 Q	56·5	56·7	56·2	55·8	55·8	55·0	52·7	53·1	53·5	55·2	57·3	60·4	63·3	64·8	63·9	61·9	59·6	59·4	59·2	59·2	59·1	58·9	57·9	57·5	55·2	58·0
3	55·2	54·4	53·5	50·4	48·4	48·4	47·7	51·9	55·8	56·4	58·9	61·0	62·1	63·7	63·5	61·6	59·8	58·7	57·5	57·5	57·7	57·5	57·9	57·7	57·1	56·6
4	57·1	55·2	54·2	55·4	54·6	51·9	50·8	51·3	54·4	55·2	57·7	61·4	63·7	64·7	64·7	62·9	61·4	59·8	59·1	59·4	56·7	56·9	58·1	57·5	57·3	57·7
5	57·3	56·5	56·2	54·6	53·8	52·3	52·7	52·9	53·7	54·2	57·5	60·6	62·5	63·5	64·8	63·7	62·7	61·8	59·8	58·7	57·7	57·3	57·1	55·2	55·6	57·8
6	55·5	57·0	57·4	53·2	52·4	51·2	52·0	53·0	53·9	55·9	58·4	61·7	63·0	64·2	63·2	61·8	60·1	59·7	60·1	59·7	58·6	58·4	57·8	57·0	56·3	57·7
7	56·3	55·5	54·7	53·6	52·6	51·4	51·6	52·4	53·6	56·6	58·4	63·2	67·1	68·2	69·2	61·6	66·1	62·8	61·8	62·0	60·9	59·7	58·6	58·8	61·8	**59·2**
8 D	61·7	59·6	51·1	52·7	56·7	56·7	57·1	59·0	57·3	59·8	59·4	61·0	64·1	65·8	64·1	58·9	62·3	61·7	62·3	59·2	52·3	60·4	56·0	55·8	67·3	59·1
9 D	67·2	53·9	52·6	57·0	49·7	54·5	52·2	55·7	56·6	54·7	56·2	59·3	64·2	63·8	63·8	60·7	54·3	60·7	59·7	60·3	54·5	54·9	53·0	56·2	56·6	57·1
10	56·6	56·6	56·6	54·5	54·7	54·5	56·4	55·1	56·4	56·1	57·8	60·1	61·8	62·2	60·7	58·8	58·6	56·4	56·1	58·2	58·0	56·8	58·0	54·5	55·5	57·3
11	55·5	53·4	53·0	52·2	60·1	64·2	60·3	61·6	54·5	54·5	56·4	59·3	62·6	62·6	63·2	61·8	59·9	55·9	57·2	57·8	55·9	55·7	55·7	55·7	56·2	57·9
12 Q	56·3	56·5	58·1	55·4	55·0	52·1	51·1	52·3	52·9	54·2	56·3	57·7	60·4	62·3	62·7	61·6	60·0	59·0	59·2	58·7	57·3	59·8	57·7	57·7	56·2	57·3
13	56·3	54·9	53·0	54·1	53·2	53·4	53·7	54·9	55·3	55·9	57·8	59·3	60·1	59·8	58·9	59·2	58·3	58·9	59·4	60·0	59·8	59·6	58·1	56·9	56·9	57·1
14	57·0	57·0	57·8	57·6	58·6	59·2	56·8	54·9	55·7	56·6	58·6	62·8	64·0	64·0	62·4	61·1	59·0	57·2	56·6	56·5	55·1	56·1	57·6	57·8	57·8	58·3
15	57·9	57·7	57·5	57·9	56·9	54·4	54·0	54·2	55·2	55·4	56·9	59·4	62·1	63·9	64·3	62·3	60·0	59·3	58·1	58·1	58·9	53·3	55·0	54·8	55·4	57·8
16	55·5	58·8	57·8	55·9	56·8	53·8	54·1	53·6	54·0	53·2	56·7	59·7	62·4	68·2	69·0	68·8	66·3	65·1	60·5	56·8	58·0	58·0	55·3	55·1	55·3	58·9
17 Q	55·3	55·9	55·5	55·3	54·5	53·4	52·4	52·4	53·4	54·3	58·0	59·9	61·7	62·6	62·8	62·2	60·3	59·2	58·0	57·0	57·2	57·0	57·4	57·2	54·9	57·2
18 Q	55·0	56·6	58·1	56·4	55·4	54·6	53·9	55·0	53·3	55·4	56·9	60·0	62·9	64·3	64·5	63·3	62·2	60·4	58·7	58·5	58·5	58·3	57·5	58·9	58·3	58·3
19	58·3	57·5	53·3	51·9	52·9	52·3	51·7	51·5	52·7	54·6	57·7	60·8	64·1	64·7	63·7	62·5	61·2	59·8	59·1	59·3	55·4	58·9	55·2	55·0	51·7	57·1
20 D	51·7	51·5	53·3	56·0	56·2	55·0	55·4	64·3	63·1	58·7	58·5	60·6	62·3	61·4	63·5	62·2	57·7	59·1	60·4	52·5	53·5	55·6	56·6	56·8	60·6	57·9
21 D	60·6	56·8	55·0	55·2	58·3	60·6	59·1	63·1	60·2	56·0	57·9	59·6	61·0	62·9	61·0	61·2	57·3	55·4	57·1	57·7	56·6	56·8	57·7	52·1	53·1	58·1
22	53·1	55·2	55·4	56·0	56·0	55·4	54·8	54·1	54·2	54·6	57·1	60·2	62·5	63·3	63·1	60·6	58·7	55·4	56·9	56·9	56·6	55·2	56·8	57·3	58·3	57·2
23	58·3	59·1	61·0	59·3	56·2	55·0	54·1	53·7	53·7	55·2	57·3	60·2	62·5	63·5	62·7	61·0	59·3	58·1	57·5	57·9	58·1	58·1	58·3	58·1	55·6	58·2
24	55·5	56·8	55·9	55·5	56·5	56·3	54·3	52·8	53·4	54·3	57·0	59·7	62·4	64·4	64·4	63·6	62·4	59·0	56·1	59·2	59·5	58·6	55·1	52·6	53·6	57·7
25 D	53·6	54·3	54·5	47·8	55·5	53·4	53·0	52·8	56·1	56·7	57·0	60·7	61·1	64·8	67·7	63·6	59·5	60·7	56·7	56·7	57·8	57·2	57·8	57·2	56·8	57·4
26	56·7	56·0	56·4	57·9	56·6	53·5	53·9	53·9	54·4	55·8	59·4	62·1	62·9	62·0	61·8	61·2	61·2	60·2	58·5	56·7	56·4	59·3	64·5	60·2	51·1	58·3
27	51·0	51·0	53·8	53·0	51·6	52·8	52·6	53·4	53·2	54·9	55·5	58·4	60·3	62·6	64·2	59·5	61·9	62·2	59·2	59·0	59·3	55·3	52·4	53·4	49·1	**56·2**
28	49·0	48·2	48·4	55·4	55·4	54·4	53·3	52·7	54·8	57·5	58·3	59·4	62·9	64·1	61·8	60·8	59·4	57·9	57·3	57·3	56·0	58·1	56·9	56·5	58·3	56·6
29	58·2	60·1	58·8	56·3	55·5	56·1	56·3	55·5	55·1	55·1	56·6	59·5	62·2	64·0	64·9	64·0	61·3	58·6	57·0	56·3	52·2	54·5	54·9	57·4	57·6	57·9
30 Q	57·5	58·7	56·9	56·2	56·3	55·8	55·4	55·0	55·0	56·2	58·7	60·8	63·7	65·6	65·6	63·7	60·8	58·7	57·3	57·5	57·1	56·3	55·4	57·3	56·9	58·4
31	56·8	56·6	57·4	56·1	54·1	54·3	54·3	53·9	53·7	54·9	57·8	60·3	63·4	64·5	64·0	63·6	61·5	59·8	58·8	57·8	59·8	58·8	55·0	57·1	56·1	58·1
Mean	56·4	56·0	55·5	55·0	55·0	54·5	**53·9**	54·6	54·9	55·6	57·6	60·3	62·7	**63·9**	63·8	62·1	60·5	59·4	58·6	58·1	57·2	57·3	56·8	56·5	56·4	57·7

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

35. Lerwick. (V.) 46,000 γ (·46 C.G.S. unit) + **August, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	666	663	666	669	664	660	659	660	661	659	660	658	656	655	659	663	669	669	668	675	677	670	668	666	666	664
2 Q	666	668	669	669	669	670	667	667	664	658	656	651	646	643	644	648	658	660	662	663	661	657	655	654	643	659
3	643	643	639	627	620	616	628	638	629	632	638	642	641	642	645	652	655	656	656	658	657	657	657	653	651	643
4	651	647	651	652	652	659	659	658	655	656	661	661	656	653	661	664	662	665	669	666	677	680	671	667	664	661
5	664	662	660	658	652	657	662	664	664	659	655	654	648	646	650	660	657	670	696	700	692	688	671	665	661	665
6	661	656	642	648	653	652	653	653	655	662	655	650	642	648	654	647	643	649	654	660	669	668	664	661	661	654
7	661	660	658	656	656	654	653	656	659	664	666	673	667	668	687	726	733	737	728	702	686	679	676	667	620	**677**
8 D	620	538	580	635	649	651	644	648	657	665	673	681	678	684	685	722	711	706	696	721	715	641	621	653	584	661
9 D	584	520	550	515	568	613	639	659	662	660	668	675	679	679	690	723	747	715	706	695	682	663	659	664	665	652
10	665	660	657	659	662	657	659	654	658	664	668	671	671	672	672	672	683	693	685	674	668	663	626	632	599	663
11	599	560	603	617	598	565	576	585	608	636	656	658	660	672	679	680	683	692	681	672	677	672	667	662	657	641
12 Q	657	652	648	647	649	651	652	651	651	641	639	639	636	642	648	659	660	659	659	656	653	651	652	647	643	650
13	643	628	628	640	647	650	647	647	647	649	653	650	648	646	650	660	685	677	671	667	667	662	657	657	659	653
14	659	659	659	660	658	649	635	643	644	645	644	640	634	640	652	661	665	663	662	663	662	652	652	652	653	652
15	653	656	657	659	658	660	660	656	656	651	654	650	648	651	658	670	679	675	669	668	666	668	659	652	640	659
16	640	605	596	603	616	630	640	652	660	661	660	661	669	670	665	677	688	699	717	715	689	674	659	614	619	656
17 Q	619	644	650	655	662	662	664	664	661	654	647	642	639	641	650	657	659	666	665	661	658	655	650	642	635	653
18 Q	635	638	639	644	649	652	652	652	648	644	642	636	631	631	635	641	646	651	655	653	651	646	642	634	632	644
19	632	579	589	596	595	607	621	626	633	637	643	643	634	628	630	633	640	642	647	653	663	648	607	580	607	625
20 D	607	598	606	614	612	607	626	608	591	608	626	642	643	642	641	667	672	671	658	665	644	625	600	599	574	627
21 D	574	573	609	611	607	588	573	587	589	605	617	620	630	632	669	673	667	658	648	645	644	632	581	567	589	617
22	589	615	621	624	625	627	630	634	633	630	623	613	611	621	626	627	635	641	641	640	641	644	640	636	634	629
23	634	633	624	613	614	620	626	631	635	636	635	629	625	635	651	658	659	655	657	651	646	643	643	639	625	637
24	625	613	630	633	635	629	627	629	632	631	628	623	621	624	635	639	639	655	671	667	666	664	661	599	585	636
25 D	585	625	641	612	556	543	571	604	612	616	628	637	665	679	665	694	689	675	689	663	658	647	605	610	630	633
26	630	638	638	633	614	623	629	626	628	628	624	622	623	620	630	643	648	656	662	674	657	649	573	550	592	629
27	592	603	627	634	635	638	636	635	635	630	629	628	630	630	632	651	644	646	647	638	632	624	597	568	533	626
28	533	485	523	571	597	612	621	625	625	616	604	608	614	620	637	642	633	629	624	619	617	612	610	609	608	**605**
29	608	587	587	604	608	606	609	607	607	609	610	602	606	608	614	624	625	626	624	621	620	616	610	602	602	610
30 Q	602	602	607	613	617	614	617	619	619	617	615	606	602	601	605	611	616	618	617	616	618	617	613	612	614	613
31	614	612	611	595	604	611	611	608	609	606	601	594	590	595	599	605	608	612	613	626	620	611	613	609	606	607
Mean	626	**617**	625	628	629	630	634	637	638	640	641	641	640	643	649	660	663	664	**664**	663	659	651	637	630	624	642

36. Lerwick. DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS: MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **August, 1931.**

Day.	Horizontal Force. Maximum 14,000 γ +		Minimum 14,000 γ +		Range.	Declination. Maximum 13° +		Minimum 13° +		Range.	Vertical Force. Maximum 46,000 γ +		Minimum 46,000 γ +		Range.	Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2)	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ			°A.
1	20 55	569	502	14 16	67	13 16	66·4	50·6	20 48	15·8	20 33	681	653	13 16	28	98	0	86·3
2 Q	23 53	547	481	12 4	66	13 14	65·2	52·1	5 55	13·1	3 55	671	640	23 55	31	83	0	87·1
3	19 25	544	478	11 35	66	13 10	64·3	45·7	5 32	18·6	18 40	660	611	5 1	49	130	1	87·7
4	19 5	556	492	12 45	64	13 37	65·8	50·4	5 35	15·4	20 34	688	643	0 30	45	103	0	87·9
5	17 24	564	485	10 6	79	13 36	65·4	5·09	4 24	14·5	18 52	704	644	13 10	60	136	1	88·1
6	18 42	558	477	10 58	81	12 44	64·7	50·8	5 5	13·9	20 0	671	636	1 50	35	113	1	88·4
7	16 55	565	477	11 15	88	13 43	70·5	48·5	5 2	22·0	16 24	745	632	24 0	113	292	1	88·4
8 D	16 7	570	436	0 33	134	23 58	70·4	44·0	19 37	26·4	19 28	751	**429**	1 12	**322**	1342	1	87·8
9 D	20 26	**596**	378	0 44	**218**	0 22	**75·9**	**39·6**	20 23	**36·3**	15 30	**780**	476	0 40	304	1637	2	87·1
10	16 46	552	491	10 20	61	11 46	63·0	52·4	23 19	10·6	17 20	700	593	24 0	107	172	1	86·2
11	18 57	551	451	4 30	100	4 43	66·7	50·5	3 3	16·2	16 58	695	550	1 2	145	358	1	86·0
12 Q	20 5	540	476	10 45	64	13 45	63·3	50·2	6 33	13·1	15 6	662	632	11 55	30	80	0	86·0
13	14 54	555	499	9 27	56	12 14	60·7	51·8	2 7	**8·9**	16 12	690	621	1 16	69	93	1	86·0
14	20 30	551	481	9 0	70	12 41	65·1	51·6	20 25	13·5	3 58	666	631	12 15	35	94	1	86·1
15	18 24	543	491	10 44	52	13 47	64·7	50·6	21 6	14·1	15 54	683	642	24 0	41	80	0	86·4
16	16 27	560	475	11 56	85	14 25	70·4	47·8	22 46	22·6	18 23	726	587	1 25	139	358	1	86·3
17 Q	15 50	542	481	9 5	61	13 33	63·4	51·8	6 7	11·6	17 25	668	618	0 1	50	86	0	86·6
18 Q	17 30	539	481	11 15	58	13 44	65·1	52·1	8 5	13·0	18 26	658	629	23 30	29	72	0	87·0
19	19 0	555	463	22 48	92	12 54	65·2	50·6	5 58	14·6	20 28	668	552	1 15	116	258	1	86·8
20 D	19 24	577	410	7 11	167	7 7	67·9	40·7	19 10	27·2	15 28	686	585	8 21	101	513	1	86·5
21 D	16 20	570	453	11 54	117	7 16	65·2	45·6	23 5	19·6	14 36	679	547	0 32	132	380	1	86·4
22	17 31	536	493	9 21	43	12 57	63·7	52·5	0 1	11·2	21 6	645	587	0 1	58	74	0	86·0
23	15 25	549	481	9 10	68	13 10	63·9	52·5	7 34	11·4	17 57	662	609	3 26	53	97	1	85·4
24	17 48	547	422	22 53	125	13 29	65·1	47·2	23 9	17·9	18 10	676	556	23 53	120	358	1	84·8
25 D	18 33	567	**360**	4 6	207	14 6	69·0	44·1	2 52	24·9	15 16	706	476	4 26	230	1068	1	84·5
26	19 56	542	469	9 19	73	21 57	67·4	49·6	23 35	17·8	18 50	678	518	22 36	160	366	1	84·6
27	16 41	559	446	21 50	113	14 16	65·5	45·5	23 57	20·0	15 0	656	541	24 0	115	332	1	85·1
28	15 00	541	445	1 15	96	13 50	65·0	43·6	1 13	21·4	14 27	652	476	1 0	176	485	1	85·6
29	20 15	532	491	9 25	**41**	14 7	65·5	51·6	20 5	13·9	16 50	627	578	1 26	49	76	0	86·2
30 Q	18 47	535	478	10 53	57	13 42	66·2	53·8	21 40	12·4	8 26	621	600	13 6	**21**	64	0	86·6
31	18 25	546	479	10 40	67	13 0	64·9	53·4	21 26	11·5	19 2	631	589	11 47	42	87	1	87·0
Mean	—	553	465	—	88	—	66·0	49·1	—	16·9	—	680	583	—	97	306	0·71	86·5
No. of Days used.	—	31	31	—	31	—	31	31	—	31	—	31	31	—	31	31	31	31

§ For explanation *see* p. 32. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

37. Lerwick. (H.) 14,000 γ (·14 C.G.S. unit) + **September, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	523	487	502	516	512	500	517	516	498	481	480	479	482	490	500	505	506	511	519	520	521	514	514	524	516	505
2 Q	515	514	511	509	509	511	510	508	501	492	486	485	489	496	507	514	515	518	520	524	525	523	523	520	520	509
3	520	523	519	519	518	518	520	519	512	508	497	496	500	509	524	534	523	524	526	533	536	534	532	534	527	520
4 D	527	516	518	383	482	520	509	493	501	486	468	461	471	501	534	518	528	534	554	534	519	514	513	511	504	503
5	504	504	489	466	482	509	517	514	503	485	483	486	497	507	516	525	525	526	533	536	542	512	523	518	519	509
6 D	518	498	508	476	497	522	528	521	482	531	440	477	481	488	499	530	583	558	526	528	529	528	507	490	483	505
7	483	513	470	394	471	522	526	508	478	500	499	499	491	506	515	521	522	531	540	550	526	529	528	526	525	507
8	525	523	519	515	510	514	507	511	500	490	494	485	495	508	519	525	529	532	544	546	536	522	511	514	526	516
9	525	519	516	509	532	525	532	516	496	488	508	508	511	518	534	518	523	543	542	543	523	534	519	503	502	520
10	501	517	528	527	527	526	522	522	509	490	487	487	494	517	524	534	531	533	539	534	533	533	534	532	530	521
11	529	533	530	536	527	527	526	526	514	495	491	486	509	524	522	529	522	530	542	540	542	537	533	532	525	**524**
12	525	525	526	527	529	527	526	519	511	497	490	497	512	532	524	518	522	534	535	533	533	529	531	529	530	522
13	530	527	526	525	525	519	521	514	512	507	499	497	512	520	517	525	529	530	531	537	540	538	532	529	532	523
14	532	530	530	524	525	532	535	531	517	511	503	496	498	515	512	528	549	547	545	537	531	542	531	499	493	**524**
15 D	493	504	499	502	510	527	530	530	515	497	446	461	493	520	549	551	563	560	567	514	510	519	513	520	472	516
16 D	472	397	420	493	491	511	502	499	478	471	484	496	500	506	520	519	509	530	528	529	531	537	522	464	399	495
17 D	399	379	452	467	428	459	499	476	480	479	483	485	485	488	500	513	524	521	524	525	530	521	514	515	510	**488**
18 Q	510	513	514	512	512	512	513	510	505	499	493	482	495	501	495	505	508	511	519	524	522	519	517	517	521	509
19 Q	521	516	515	516	517	518	515	509	502	494	484	480	482	489	499	507	508	517	516	513	516	522	520	518	515	508
20	515	514	520	524	525	520	518	517	511	502	499	496	499	508	519	515	511	532	529	539	549	517	517	488	348	513
21	348	368	425	474	505	516	509	484	488	487	493	490	483	488	505	513	516	518	523	527	530	512	519	529	505	493
22	505	508	452	486	514	494	501	516	505	497	493	493	502	504	507	518	521	532	530	517	522	508	478	524	516	506
23	516	515	517	520	521	517	516	521	509	499	495	495	497	505	526	516	514	521	519	520	520	520	521	527	519	515
24	519	514	510	504	503	492	509	501	485	492	494	495	503	495	508	529	517	518	515	519	519	523	520	516	514	508
25	513	510	515	509	511	512	514	512	505	499	501	499	498	503	502	509	508	515	525	522	518	511	516	520	515	510
26	514	515	514	509	515	508	512	511	504	489	491	495	496	497	498	508	518	508	521	526	515	511	515	516	513	509
27	512	489	488	493	509	511	512	506	501	496	496	503	505	502	512	507	512	521	523	528	516	517	520	515	514	508
28 Q	513	515	513	513	512	514	515	515	512	504	499	495	495	500	503	510	517	519	523	524	528	521	522	523	519	513
29 Q	518	516	516	515	516	519	522	521	515	506	499	494	494	505	514	522	525	526	530	530	536	532	537	536	533	519
30	532	529	526	532	531	526	525	521	517	509	500	489	500	510	526	499	500	511	520	515	517	517	508	416	489	511
Mean	505	501	503	500	509	514	517	512	502	493	**489**	490	496	505	514	519	523	527	**530**	529	527	523	520	513	504	511

MAGNETIC DECLINATION (WEST).

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

38. Lerwick. (D.) 13° + **September, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	56·1	65·2	59·0	54·6	52·4	57·3	52·4	54·0	54·8	56·9	55·0	58·6	62·9	65·0	65·2	64·0	61·7	59·8	58·4	57·8	56·5	57·8	57·5	58·2	57·1	58·4
2 Q	57·1	55·7	54·6	55·7	55·3	55·7	54·4	53·8	53·4	54·6	57·1	60·2	63·2	64·6	64·2	63·4	61·7	60·0	59·2	58·8	58·4	58·2	57·7	56·7	56·5	58·1
3	56·4	55·8	55·8	56·4	55·6	54·3	52·0	51·0	51·8	54·3	59·5	63·9	66·6	68·0	68·4	67·8	65·5	65·7	62·8	62·0	61·4	60·3	58·7	55·4	50·8	**59·4**
4 D	50·8	56·2	44·4	47·1	59·1	56·6	55·6	56·2	56·0	56·8	61·4	65·9	67·0	69·7	59·9	63·1	62·6	53·9	52·1	58·3	54·3	57·0	57·6	58·5	60·3	57·7
5	60·2	60·9	58·8	61·3	56·9	56·9	54·6	53·4	54·2	55·1	56·9	61·7	65·6	65·2	63·2	61·9	60·0	58·8	56·9	54·0	50·9	53·0	54·0	57·6	57·5	57·9
6 D	57·5	60·9	61·3	60·0	60·3	53·6	53·0	52·6	57·3	64·0	67·5	65·2	65·8	65·4	65·8	63·4	54·9	52·2	57·5	58·6	55·3	46·5	58·0	55·7	57·8	58·9
7	57·7	57·9	54·7	62·9	51·6	53·5	52·1	55·0	57·0	56·6	58·1	60·1	60·8	61·8	61·8	59·9	58·9	57·4	50·0	51·9	55·4	55·6	56·8	56·6	56·2	56·8
8	56·1	56·9	56·7	56·1	55·3	54·4	56·7	57·4	56·3	58·4	58·2	61·1	62·5	64·6	65·6	64·6	62·7	56·1	52·4	52·6	53·2	43·9	45·7	50·9	55·3	56·6
9	55·3	49·0	47·8	51·5	51·3	53·0	53·4	54·4	57·6	61·1	59·8	61·7	63·6	64·2	63·6	60·9	58·4	57·1	51·1	46·6	53·2	51·3	51·5	51·8	60·0	55·5
10	59·9	57·9	53·9	52·9	53·5	56·0	53·3	53·3	54·1	56·2	59·5	63·5	65·1	65·3	63·5	61·8	61·0	56·8	59·6	55·6	57·7	57·7	57·3	57·3	57·0	57·6
11	56·9	59·0	57·1	55·1	53·2	54·0	54·0	54·7	56·3	59·8	61·5	65·0	64·0	64·4	62·1	59·8	58·4	57·6	57·4	57·8	57·6	55·7	56·9	56·7	57·4	58·1
12	57·3	57·1	53·3	52·9	53·7	53·9	54·1	54·1	54·4	56·2	59·5	61·6	62·9	65·3	64·5	60·8	58·3	57·9	57·5	52·1	54·4	56·4	55·4	54·8	55·4	57·0
13	55·3	56·3	56·5	56·7	55·5	56·5	56·3	57·4	57·6	57·0	59·7	61·1	62·6	63·2	61·9	60·7	59·2	58·2	54·5	57·6	57·8	57·8	56·9	56·7	57·4	58·1
14	57·3	56·6	57·1	57·9	58·5	55·8	56·2	54·8	55·4	57·3	60·2	62·3	64·9	67·0	66·0	62·9	64·3	60·6	53·1	55·8	56·0	47·9	49·4	50·2	54·8	57·8
15 D	54·7	51·2	57·0	62·6	54·5	54·7	53·4	52·8	53·6	55·9	60·5	64·6	65·9	66·9	69·2	68·6	66·7	62·6	58·8	45·7	49·7	54·7	45·1	51·4	51·4	57·5
16 D	51·3	54·4	51·7	46·9	53·3	52·3	53·3	56·0	55·8	58·9	60·8	59·8	62·0	59·3	58·9	62·3	57·1	57·1	58·7	57·3	56·6	49·8	44·4	45·4	46·3	**55·0**
17 D	46·3	52·3	59·6	55·6	61·8	71·8	61·0	62·1	61·0	58·3	57·5	57·5	56·6	59·6	61·4	60·8	59·8	58·3	55·2	50·6	50·6	51·3	52·7	54·6	56·7	57·6
18 Q	56·7	56·4	55·8	56·0	55·8	55·4	54·6	53·3	53·1	53·9	56·4	58·1	59·1	60·8	58·9	58·5	58·1	57·9	57·3	56·7	56·4	53·3	53·7	55·8	56·9	56·3
19 Q	56·9	54·2	54·8	55·8	56·0	55·8	55·4	54·8	54·6	55·4	58·5	60·7	62·3	62·7	62·7	61·0	59·8	59·1	58·3	56·4	57·1	56·9	52·9	52·9	55·4	57·3
20	55·5	58·6	56·1	53·8	53·4	52·8	53·4	53·6	54·0	54·7	56·5	58·4	60·1	61·5	62·8	62·4	61·3	61·3	58·4	48·2	58·0	54·3	55·9	51·8	64·2	56·7
21	64·3	56·8	40·5	47·5	53·7	52·1	52·7	53·7	56·0	53·5	56·2	61·2	63·5	62·2	60·6	59·6	57·7	57·1	57·7	57·9	53·7	55·4	55·8	56·6	54·8	55·9
22	54·9	52·6	53·0	50·9	49·5	52·8	57·0	55·1	53·6	54·0	56·3	59·2	62·6	63·4	62·3	60·5	58·4	59·0	58·2	56·9	59·2	48·9	58·2	54·9	54·2	56·3
23	54·3	53·9	54·3	53·3	51·5	51·5	54·3	53·7	53·7	55·4	56·4	58·9	61·6	62·5	65·1	62·5	58·7	59·5	58·5	57·3	57·0	55·4	56·6	53·3	55·4	56·7
24	55·5	46·6	47·4	51·3	53·0	57·2	54·9	55·5	55·3	54·7	57·2	60·3	63·8	63·2	62·1	56·7	56·3	59·2	58·0	56·9	56·7	53·2	55·7	55·3	57·1	56·1
25	57·2	60·2	55·8	56·4	56·8	56·2	55·8	55·0	54·6	54·3	56·0	57·9	60·8	62·9	60·6	59·5	59·1	58·5	58·7	58·7	57·3	56·0	58·3	50·4	53·9	57·3
26	53·9	54·6	55·0	57·2	55·2	55·0	55·6	55·0	55·0	56·6	56·6	58·3	58·9	59·5	58·9	58·9	58·7	58·1	57·2	52·3	53·9	54·6	55·0	55·6	53·7	56·2
27	53·8	55·7	49·9	45·7	51·7	53·2	53·8	54·2	54·4	54·9	55·3	57·8	60·7	60·7	61·5	60·5	59·8	59·0	57·8	50·5	54·0	56·5	56·5	55·5	55·9	55·6
28 Q	55·9	55·5	55·9	55·3	55·5	55·7	55·3	55·1	54·4	54·6	55·5	57·4	59·4	60·3	60·3	60·0	59·8	59·6	59·2	57·3	55·3	56·7	55·9	55·1	54·2	56·8
29 Q	54·2	55·1	55·3	55·5	55·9	55·1	54·4	54·0	53·2	53·8	55·7	58·8	60·9	61·7	61·1	61·1	60·7	60·3	61·1	57·8	54·7	58·2	58·0	57·6	56·7	57·3
30	56·7	55·3	56·7	55·5	55·7	55·9	55·7	55·3	54·6	54·7	57·1	60·5	64·4	66·1	67·7	67·9	63·0	59·4	57·8	57·1	57·8	56·7	53·4	54·9	50·3	58·2
Mean	55·9	56·0	**54·3**	54·7	54·9	55·3	54·6	54·7	55·1	56·3	58·2	60·7	62·7	**63·6**	63·0	61·9	60·1	58·6	56·8	55·3	55·7	54·4	54·7	54·6	55·7	57·2

Q denotes an " International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

39. Lerwick. (V.) 46,000 γ (·46 C.G.S. unit) + **September, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	606	573	536	584	595	597	596	600	606	610	609	604	601	598	601	606	614	616	616	618	619	621	616	593	591	601
2 Q	591	600	608	611	615	620	623	626	627	628	624	618	615	611	614	617	622	626	626	628	628	629	629	629	628	620
3	628	622	623	624	629	631	631	630	626	614	615	610	608	614	627	657	685	688	677	653	642	645	642	627	567	634
4 D	567	526	485	426	520	553	584	609	616	626	632	641	639	648	685	655	647	672	664	661	657	620	611	592	585	606
5	585	587	596	530	541	574	600	614	617	623	625	617	616	621	619	621	625	625	630	644	630	621	602	588	579	606
6 D	579	565	533	497	508	578	606	615	628	644	635	629	637	662	662	660	701	690	665	645	643	620	532	531	515	610
7	515	538	562	485	485	538	581	608	627	625	626	628	634	636	637	642	647	645	654	640	637	633	629	621	626	605
8	626	624	622	619	613	613	622	616	621	626	636	646	649	639	640	644	652	675	689	687	665	626	595	609	587	**635**
9	587	581	586	575	548	568	582	603	615	617	612	617	617	624	625	645	637	639	662	662	648	625	600	586	543	610
10	543	541	591	603	601	604	613	616	619	619	622	620	623	625	631	638	650	648	658	641	632	624	619	615	615	618
11	615	608	597	587	592	595	600	601	604	608	610	614	610	613	616	617	617	611	611	610	612	610	605	604	602	607
12	602	548	567	593	600	604	605	609	608	605	606	604	604	611	627	644	631	624	623	630	622	618	613	610	611	609
13	611	614	617	618	618	620	613	611	608	609	611	607	604	614	620	623	628	636	641	630	623	621	622	617	615	618
14	615	618	619	612	607	604	609	611	610	607	608	609	613	614	623	626	648	669	680	661	661	625	579	573	537	619
15 D	537	546	566	517	550	599	614	617	618	620	638	639	635	637	671	737	740	752	756	711	661	640	613	595	533	634
16 D	533	358	373	462	520	550	584	592	620	624	614	614	620	637	648	648	671	656	638	628	629	626	573	459	373	**575**
17 D	373	425	462	508	479	481	539	583	606	622	641	647	657	646	623	618	617	629	639	635	625	619	608	600	601	583
18 Q	601	604	608	611	613	615	617	619	619	616	620	621	616	616	621	622	620	617	617	618	619	619	614	600	579	615
19 Q	579	597	606	607	608	610	614	617	616	614	614	614	613	612	615	617	618	622	629	640	635	627	622	621	612	616
20	612	599	582	588	595	604	609	610	615	618	617	616	613	612	613	621	621	619	646	702	702	667	629	584	513	619
21	513	444	519	560	579	602	616	634	634	636	640	638	642	642	634	634	634	634	633	639	643	648	649	626	597	613
22	597	577	575	560	602	606	611	616	628	630	631	628	628	632	634	632	633	633	647	663	652	646	583	579	621	618
23	621	627	615	616	619	619	619	617	620	620	620	623	624	624	628	658	654	636	631	629	628	628	625	603	555	624
24	555	552	570	597	579	561	570	590	606	613	620	620	624	637	644	660	653	635	626	624	623	615	614	616	618	610
25	618	610	611	619	618	618	619	619	622	617	616	614	613	613	622	625	626	623	620	622	626	633	598	579	609	617
26	609	615	613	581	582	603	609	614	615	617	620	619	617	622	628	628	634	634	630	630	629	634	628	624	608	618
27	608	563	498	513	532	570	592	601	612	614	616	615	615	622	624	630	630	628	632	635	634	626	623	624	623	603
28 Q	623	618	617	622	623	623	622	622	622	621	622	618	617	617	619	622	626	625	626	626	621	622	621	621	621	621
29 Q	621	622	624	624	621	619	619	620	622	624	623	619	614	608	610	618	625	627	629	630	618	621	617	617	615	620
30	615	610	613	614	619	621	621	622	620	617	619	617	617	632	661	693	662	636	628	631	628	624	610	499	466	619
Mean	583	**570**	573	572	580	593	605	612	618	619	621	621	621	625	631	639	642	642	**644**	642	636	628	611	595	578	613

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS:

40. Lerwick. MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **September, 1931.**

Day.	Terrestrial Magnetic Elements. Horizontal Force. Maximum 14,000 γ +		Minimum 14,000 γ +		Range.	Declination. Maximum 13° +		Minimum 13° +		Range	Vertical Force. Maximum 46,000 γ +		Minimum 46,000 γ +		Range.	Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2).	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ			A°.
1	19 54	528	469	1 13	59	1 14	72·9	50·9	6 32	22·0	20 50	625	513	1 35	112	247	1	86·7
2 Q	18 43	526	484	10 48	**42**	13 26	65·0	52·8	7 51	12·2	23 40	630	592	0 1	38	59	0	86·1
3	23 25	543	486	9 50	57	17 13	70·5	49·6	7 6	20·9	16 15	702	568	24 0	134	289	1	85·3
4 D	17 34	582	302	2 44	280	13 12	70·5	35·0	2 38	35·5	17 7	691	371	3 9	320	2033	2	85·0
5	19 49	564	446	2 36	118	2 33	67·9	45·1	19 39	22·8	19 35	648	511	3 11	137	419	1	84·8
6 D	15 54	601	416	9 15	185	13 48	68·5	41·2	21 2	27·3	16 6	**732**	485	3 25	247	1085	1	84·5
7	18 34	584	365	3 3	219	2 54	71·6	38·2	18 24	33·4	18 14	661	447	3 24	214	1136	1	84·0
8	18 12	554	469	10 57	85	13 54	66·1	**30·0**	21 22	36·1	17 37	700	583	24 0	117	443	1	83·6
9	18 40	568	476	23 42	92	13 54	64·8	37·8	18 27	27·0	18 26	685	537	3 42	148	434	1	83·0
10	18 2	552	481	10 42	71	13 2	66·2	46·2	17 54	20·0	17 37	665	519	0 42	146	336	1	82·7
11	17 49	554	473	10 34	81	11 12	65·9	50·5	3 30	15·4	15 21	623	580	3 23	43	126	1	82·6
12	19 35	553	487	10 12	66	12 35	66·6	46·9	19 32	19·7	14 45	646	532	0 59	114	242	1	82·5
13	20 40	543	487	10 44	56	13 6	64·6	51·4	18 4	13·2	17 30	645	601	11 54	44	82	0	82·2
14	21 13	577	457	23 45	120	13 12	68·3	39·6	21 12	28·7	17 55	703	527	23 53	176	600	1	82·3
15 D	18 6	**621**	434	9 53	187	17 53	73·6	40·8	19 22	32·8	18 5	811	505	3 11	306	1479	2	82·4
16 D	20 53	546	348	1 10	198	1 28	67·0	33·4	2 7	33·6	16 15	683	**267**	1 26	**416**	2324	2	83·3
17 D	16 19	537	311	1 26	226	4 50	**76·2**	40·7	0 49	35·5	12 24	664	343	0 1	321	1766	2	83·7
18 Q	22 28	527	471	10 38	56	23 30	65·0	51·5	7 53	13·5	10 43	624	570	23 53	54	93	1	84·2
19 Q	21 52	528	475	11 30	53	13 52	63·7	50·4	22 24	13·3	19 24	642	572	0 1	70	108	0	84·5
20	19 15	575	359	23 55	216	23 55	64·6	40·1	19 3	24·5	19 0	720	534	24 0	186	921	1	84·5
21	20 11	542	**197**	0 15	**345**	0 10	**76·2**	33·6	1 55	**42·6**	21 47	652	426	1 19	226	2025	2	84·3
22	17 6	546	412	2 21	134	22 6	65·5	40·4	21 24	25·1	18 55	670	528	22 10	142	494	1	83·8
23	23 33	541	471	15 7	70	14 45	70·1	48·8	23 20	21·3	15 9	686	549	24 0	137	318	1	84·3
24	15 15	556	473	12 41	83	12 13	66·7	42·8	1 20	23·9	15 3	667	543	0 15	124	325	1	84·2
25	22 54	535	489	11 41	46	13 25	63·7	44·6	22 50	19·1	20 56	634	572	22 30	62	125	1	84·2
26	19 15	539	485	9 17	54	13 22	60·4	47·3	19 14	13·1	16 35	638	571	3 8	67	104	1	84·3
27	19 15	546	459	2 43	87	14 15	62·1	41·6	2 50	20·5	18 54	640	490	1 40	150	376	1	84·1
28 Q	19 34	537	494	11 7	43	14 34	60·7	53·0	19 31	**7·7**	18 40	629	615	12 40	**14**	31	0	84·0
29 Q	19 45	549	490	11 25	59	13 17	62·3	50·7	19 44	11·6	18 48	633	605	13 20	28	67	0	83·7
30	14 31	547	360	23 6	187	14 38	71·5	49·1	24 0	22·4	15 3	705	413	23 22	292	1293	1	83·7
Mean	—	553	434	—	119	—	67·3	44·1	—	23·2	—	668	516	—	153	646	1·00	83·9
No. of Days used	—	30	30	—	30	—	30	30	—	30	—	30	30	—	30	30	30	30

§ For explanation see p. 32. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

41. Lerwick. (H.) 14,000 γ (·14 C.G.S. unit) + **October, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	489	440	404	493	513	512	517	474	463	491	486	478	482	487	495	520	512	525	517	504	495	498	488	475	481	490
2 D	481	430	449	467	493	503	503	504	502	498	478	454	469	502	523	552	574	547	557	502	486	460	419	354	374	486
3	373	420	453	423	482	480	497	489	476	480	481	481	485	498	497	501	505	516	515	512	508	509	515	512	508	487
4	508	471	481	503	497	500	508	516	506	492	486	487	493	479	488	488	503	523	510	519	432	481	496	498	398	492
5 D	397	488	505	457	467	454	462	488	446	427	478	474	450	471	481	501	513	535	510	510	491	493	489	489	467	**480**
6	466	473	492	467	488	502	505	504	505	481	473	473	478	492	496	496	498	505	501	497	503	505	509	513	501	493
7	500	503	501	497	499	508	508	504	500	495	489	484	480	485	487	499	498	501	510	511	512	513	510	508	507	500
8	506	505	504	504	506	513	514	510	498	492	490	486	486	489	498	504	500	507	512	511	514	510	499	506	508	503
9 Q	507	507	507	490	501	515	516	513	510	502	498	494	493	494	493	497	505	506	510	512	512	511	512	512	513	505
10 Q	512	510	510	508	508	507	510	508	504	496	495	496	486	497	507	515	521	516	507	513	517	514	525	514	511	508
11 Q	510	513	506	509	510	512	511	511	500	490	483	484	494	499	504	508	512	515	519	522	522	520	517	526	513	508
12 D	513	514	511	512	513	516	515	512	507	499	483	486	496	512	511	506	516	564	609	514	502	422	272	303	190	485
13	190	302	326	447	395	394	453	494	474	479	484	484	497	505	508	544	514	501	508	504	505	507	508	512	504	466
14	504	486	496	497	491	501	504	504	501	495	489	478	481	488	494	510	498	512	510	508	509	504	505	506	510	499
15	510	505	508	511	505	518	521	513	489	479	480	482	489	491	500	502	509	508	511	509	511	514	505	510	508	503
16 Q	508	493	504	510	508	513	513	511	505	497	491	486	487	489	499	500	503	499	505	513	512	513	513	511	509	503
17	509	516	511	512	524	516	513	512	503	494	491	485	480	491	503	507	513	514	518	522	514	513	502	509	511	507
18	511	505	502	505	509	513	517	510	504	496	487	491	473	497	500	503	513	503	507	505	505	505	506	500	504	503
19	504	504	499	471	493	512	502	501	498	477	485	485	495	504	507	515	500	499	506	510	534	500	480	482	481	498
20	481	507	503	507	507	505	507	502	499	497	494	488	493	498	500	506	511	515	510	507	514	503	508	487	504	503
21	504	509	512	510	509	511	516	514	502	496	484	492	501	505	511	513	508	512	510	523	514	513	514	521	505	**509**
22	505	485	494	506	496	496	509	504	503	490	490	494	488	501	503	514	506	505	516	515	504	507	516	508	511	502
23	511	506	507	506	508	508	507	505	497	492	493	492	493	500	508	512	508	508	509	513	512	506	500	473	452	502
24	452	489	483	489	494	495	505	505	498	480	483	494	504	508	504	506	506	508	509	510	508	510	518	510	509	500
25 Q	509	506	506	508	509	510	509	507	502	495	494	493	495	501	506	502	496	501	506	510	514	517	514	510	506	505
26	506	500	508	509	510	511	510	506	499	489	493	494	497	502	506	507	506	510	515	507	505	492	504	504	504	504
27	504	503	498	499	509	506	512	512	505	492	481	477	478	485	494	501	505	527	608	494	487	495	498	495	495	503
28	495	495	482	461	486	498	499	494	489	476	450	472	484	479	480	496	500	485	502	449	445	474	478	484	487	481
29 D	487	484	487	491	492	491	495	484	463	455	445	467	508	541	754	900	779	636	606	459	349	126	341	374	459	504
30 D	459	462	455	419	394	372	449	438	472	477	447	480	479	511	522	543	557	586	533	513	481	487	488	489	489	480
31	489	493	486	488	505	478	480	483	467	476	480	484	482	491	502	506	505	513	514	509	504	498	505	498	502	493
Mean	**481**	485	487	489	494	496	503	501	493	486	483	484	487	496	509	522	519	519	**522**	507	497	488	489	487	481	497

MAGNETIC DECLINATION (WEST).

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

42. Lerwick. (D.) 13° + **October, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	50·3	48·0	60·7	53·8	53·0	53·4	54·6	60·0	65·0	60·7	60·3	60·7	64·4	64·0	65·6	59·4	55·5	55·7	49·5	50·1	55·7	55·1	59·0	57·6	51·8	57·2
2 D	51·8	43·4	52·0	57·4	57·6	55·7	54·9	54·2	54·2	55·7	59·8	65·6	64·6	64·8	61·9	67·5	43·4	55·5	49·9	41·4	53·6	57·8	52·2	47·6	56·3	55·2
3	56·2	59·7	52·9	52·5	55·6	56·8	56·0	58·3	56·2	57·3	58·1	59·5	60·6	60·2	61·0	59·3	57·5	55·0	53·9	57·2	57·7	56·8	55·2	55·6	55·2	57·0
4	55·2	57·7	49·6	51·9	55·4	55·6	55·2	56·0	55·2	55·6	57·9	60·8	63·5	62·4	61·8	61·2	59·9	60·4	57·5	57·5	53·3	47·5	45·2	51·9	64·9	56·4
5 D	64·8	55·5	51·5	49·3	55·3	61·5	60·9	59·2	60·5	60·7	57·1	61·3	61·7	62·3	61·9	59·6	57·4	47·0	43·7	52·6	57·2	51·8	55·5	53·2	57·6	56·6
6	57·5	56·6	50·8	54·8	54·8	54·6	54·4	54·1	54·8	57·3	59·5	59·3	59·7	60·4	60·2	59·8	59·1	57·0	54·6	51·2	55·8	55·8	56·4	55·0	53·5	56·3
7	53·4	54·5	51·4	52·4	54·2	54·3	54·7	56·1	58·0	56·3	56·9	57·0	59·6	59·8	60·0	58·7	58·5	52·9	56·6	56·8	56·4	56·0	55·8	55·8	55·8	56·1
8	55·7	55·9	55·5	55·3	55·9	56·1	59·0	57·2	56·3	55·9	55·3	57·2	59·9	59·9	60·1	59·7	59·0	57·8	57·4	56·7	56·3	53·2	46·8	53·2	54·9	56·4
9 Q	54·8	55·4	55·4	56·9	57·1	53·7	55·0	54·4	53·5	53·5	54·6	56·6	60·8	61·2	62·0	60·8	57·9	57·7	56·7	56·4	56·0	55·8	55·6	55·8	55·8	56·6
10 Q	55·7	55·9	55·7	55·7	54·9	56·1	54·9	54·1	53·9	54·3	55·9	60·5	62·0	61·5	59·9	58·2	57·8	57·2	57·8	57·8	57·0	54·9	50·5	51·2	54·7	56·4
11 Q	54·6	54·6	56·9	56·4	55·2	55·0	55·0	54·4	54·4	56·0	57·7	60·2	62·5	63·3	62·9	61·0	59·4	58·1	57·3	57·1	57·1	56·9	56·4	55·2	54·2	57·4
12 D	54·1	52·2	53·4	53·9	54·1	54·1	53·9	54·7	55·7	56·3	58·8	61·8	62·4	64·9	64·4	64·7	64·7	60·1	47·2	50·7	49·3	51·8	43·1	68·0	47·8	56·3
13	47·7	39·9	42·6	48·2	54·6	60·6	69·7	58·7	56·2	56·9	58·5	60·8	60·2	58·5	62·5	48·6	55·0	56·2	54·8	54·0	54·0	55·0	55·2	55·6	57·3	55·4
14	57·3	54·8	57·5	54·6	55·6	56·3	55·4	54·2	52·9	53·5	56·2	58·3	60·0	60·8	60·0	59·4	54·8	49·8	55·6	55·4	50·4	51·1	52·5	54·8	55·2	55·4
15	55·2	56·9	56·5	52·9	56·2	57·3	55·8	55·8	57·3	56·9	57·7	60·0	62·5	65·8	62·9	62·1	60·6	53·6	48·4	56·2	55·4	53·3	52·3	56·2	55·0	57·0
16 Q	55·0	56·3	58·5	54·2	54·8	56·0	56·0	56·9	54·8	54·0	56·0	58·3	60·0	60·8	59·8	60·4	60·4	59·2	57·3	55·8	55·2	54·8	54·8	54·4	54·0	56·8
17	54·0	56·5	56·5	54·2	54·8	53·1	54·8	52·9	54·4	55·2	56·5	58·7	60·2	59·0	60·0	59·2	58·5	57·5	57·7	57·9	54·4	36·9	50·4	50·9	52·9	55·2
18	52·9	53·8	55·2	50·9	51·5	52·9	53·5	52·9	52·5	54·0	56·2	61·6	62·7	59·0	64·1	63·3	66·2	61·0	57·9	56·3	54·4	51·3	49·0	51·9	54·0	56·1
19	54·1	52·8	52·8	57·8	60·1	55·1	53·4	54·3	54·9	56·4	56·6	60·3	57·8	59·3	59·9	60·9	60·3	54·7	56·8	58·6	42·9	48·5	54·7	52·6	59·3	55·8
20	59·4	52·9	54·8	54·8	54·4	54·6	54·4	53·8	53·1	52·5	55·2	56·9	58·3	59·1	60·1	58·8	57·4	56·6	56·6	52·6	45·5	53·2	55·5	59·5	58·0	55·4
21	58·0	55·9	52·0	54·5	52·8	53·2	53·1	53·1	54·6	55·2	56·7	57·1	61·0	59·4	60·4	59·1	56·7	54·9	56·8	47·6	50·9	54·0	54·7	54·1	54·0	55·2
22	54·0	64·2	58·6	50·1	51·2	54·3	52·4	53·0	53·4	54·8	55·2	58·7	59·8	58·5	58·5	57·5	56·0	54·4	55·2	53·1	54·9	54·7	57·4	55·5	55·1	55·6
23	55·1	54·3	54·5	54·7	54·5	54·7	54·9	54·5	54·9	55·1	57·6	59·9	60·6	59·1	59·3	57·3	57·0	51·7	51·9	54·8	51·7	49·2	50·2	42·7	50·8	54·5
24	50·9	52·3	54·6	54·6	57·1	62·5	58·3	56·1	56·7	56·9	57·2	58·4	59·4	59·9	58·8	57·8	57·6	57·2	56·6	56·2	56·2	55·8	55·2	54·8	55·0	56·8
25 Q	55·0	55·2	55·6	55·6	55·0	54·8	54·6	54·8	54·5	54·6	56·3	58·8	60·3	60·3	59·2	57·3	56·9	56·9	57·4	56·7	56·3	53·7	55·6	54·1	53·9	56·2
26	54·0	56·0	56·8	55·8	56·0	56·0	55·6	55·2	55·6	56·6	57·5	60·2	60·2	61·1	60·5	59·8	59·8	59·6	59·2	58·6	44·7	55·1	54·8	54·2	55·3	56·8
27	55·3	54·2	54·4	53·2	54·0	55·3	54·8	54·9	54·7	55·6	57·6	59·7	62·2	64·3	65·3	58·9	66·4	64·1	59·9	49·6	52·1	54·9	56·0	55·2	55·4	57·2
28	55·5	55·9	55·3	61·1	55·9	54·8	55·9	55·5	54·4	55·7	56·5	57·7	61·1	63·2	60·2	61·9	63·6	54·0	49·2	52·1	52·6	44·7	52·4	56·5	56·5	56·1
29 D	56·6	56·6	56·4	56·6	56·8	58·1	59·7	60·5	62·8	62·0	58·1	57·9	64·1	61·6	65·9	69·5	56·2	67·0	66·6	54·7	51·8	48·7	37·7	40·8	45·0	**57·5**
30 D	45·1	46·9	51·7	48·6	52·4	67·9	61·1	61·1	61·3	58·6	56·7	56·1	57·3	60·0	60·7	57·3	55·5	50·7	52·6	39·7	47·2	47·8	47·8	51·7	54·6	**54·2**
31	54·6	56·9	56·5	58·4	57·1	58·0	63·3	61·3	61·1	59·8	60·2	58·4	60·4	57·9	59·8	54·6	54·8	52·3	48·2	51·9	52·6	55·5	52·4	54·4	54·2	56·7
Mean	54·6	54·3	54·4	54·2	55·1	56·2	56·3	55·9	56·1	56·3	57·2	59·3	61·0	61·0	**61·3**	59·8	58·2	56·3	54·9	53·8	53·2	52·6	**52·6**	53·9	54·8	56·2

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56-61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

43. Lerwick. (V.)

46,000 γ (·46 C.G.S. unit) +

October, 1931.

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	465	507	506	520	574	599	602	614	602	594	602	609	618	620	627	662	653	644	644	630	632	620	566	513	494	593
2 D	494	460	490	512	559	594	606	609	606	604	610	619	616	617	657	723	744	712	741	701	660	553	501	445	405	600
3	405	432	502	534	572	576	607	625	631	632	631	630	633	635	634	633	636	646	646	642	638	637	632	628	623	605
4	623	574	518	591	612	613	620	622	628	633	634	631	633	650	650	643	640	653	698	674	541	600	558	582	514	615
5 D	514	479	568	554	484	515	547	592	632	653	636	639	661	674	656	648	652	674	673	669	587	608	608	600	539	606
6	539	499	547	571	579	601	607	612	613	622	626	633	629	627	628	628	629	631	640	638	628	626	623	583	571	607
7	571	570	589	599	600	599	603	608	612	617	625	631	634	636	635	631	635	639	631	628	626	626	627	627	629	618
8	629	628	626	626	617	605	599	598	609	614	626	631	633	633	633	636	640	636	636	636	634	639	625	620	626	625
9 Q	626	629	626	626	600	599	605	613	621	626	628	629	632	638	640	647	646	640	636	630	629	628	628	628	627	627
10 Q	627	627	627	627	625	625	621	624	625	627	629	623	624	629	625	625	628	637	645	633	628	628	616	612	608	626
11 Q	608	606	620	625	627	627	625	624	626	624	626	625	623	625	630	632	633	628	624	619	615	615	618	594	587	621
12 D	587	581	602	610	613	613	613	611	608	608	610	613	611	615	626	640	660	756	778	708	672	596	514	343	411	613
13	411	375	460	536	531	478	512	554	601	616	619	628	645	672	654	676	667	650	640	638	632	624	621	608	585	**589**
14	585	582	590	603	610	611	621	626	625	625	631	634	637	638	636	641	657	655	644	643	637	627	618	617	613	625
15	613	611	611	608	616	607	608	611	618	626	629	629	628	646	648	634	639	657	654	636	633	629	614	576	564	623
16 Q	564	579	580	603	613	609	609	608	615	618	622	626	625	632	638	643	645	645	639	631	629	623	622	619	615	619
17	615	585	580	598	598	594	604	608	616	620	625	629	630	629	626	623	619	617	617	618	636	649	649	622	606	617
18	606	605	577	597	609	614	614	618	619	622	627	625	644	646	636	635	641	681	668	655	658	659	658	646	620	632
19	620	612	617	594	575	593	606	619	623	630	637	637	639	631	630	633	643	661	648	640	640	623	584	572	535	619
20	535	579	611	617	620	623	623	627	632	632	630	636	649	652	657	665	668	665	664	670	664	643	632	598	566	634
21	566	588	596	597	608	608	607	613	618	613	614	618	624	632	635	639	642	649	645	641	630	623	621	617	610	619
22	610	546	542	571	586	599	614	630	638	647	653	655	668	676	679	676	689	699	700	687	685	671	643	631	622	642
23	622	621	623	619	613	607	610	607	609	603	599	600	605	612	623	628	629	632	624	617	617	598	548	541	543	607
24	543	562	580	570	562	558	553	572	584	593	601	602	604	616	619	617	627	635	628	626	619	606	600	599	602	596
25 Q	602	606	608	609	608	607	607	607	609	613	619	615	613	621	641	643	656	654	640	615	595	576	566	561	566	611
26	566	567	568	584	590	599	604	617	625	627	622	612	616	622	628	628	627	623	619	634	675	647	628	621	617	616
27	617	589	566	583	591	601	602	610	617	620	617	620	634	643	667	708	709	777	830	754	686	661	644	643	642	**650**
28	642	643	638	587	573	601	620	631	638	641	635	617	618	629	640	632	649	688	699	660	647	632	604	601	593	631
29 D	593	606	614	620	624	630	621	628	632	637	656	671	740	797	783	792	621	742	765	703	608	361	428	451	497	636
30 D	497	550	558	511	474	482	558	615	659	674	717	728	704	688	719	753	763	805	688	577	567	576	576	594	597	628
31	597	604	603	608	603	602	603	607	637	639	642	648	654	651	652	644	628	614	605	590	581	559	541	545	541	610
Mean*	570	**567**	578	587	589	593	601	612	621	625	629	631	637	644	647	654	652	**666**	666	648	631	613	598	583	573	618

44. Lerwick.

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS: MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE.

October, 1931.

Day.	Terrestrial Magnetic Elements. Horizontal Force. Maximum 14,000 γ +		Minimum 14,000 γ +		Range.	Declination. Maximum 13° +		Minimum 13° +		Range.	Vertical Force. Maximum 46,000 γ +		Minimum 46,000 γ +		Range.	Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2)	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ			A°.
1	18 18	561	350	1 48	211	2 14	68·1	35·8	18 12	32·3	15 6	673	462	0 1	211	1078	2	83·8
2 D	15 30	655	257	23 15	398	21 43	78·7	29·1	15 55	49·6	15 39	805	361	23 5	444	3996	2	83·9
3	18 10	534	352	2 36	182	0 36	62·4	40·6	0 1	21·8	17 45	651	394	0 16	257	1076	1	83·7
4	19 22	548	346	23 59	202	1 9	67·2	40·0	21 55	27·2	18 10	718	460	19 47	258	1206	2	83·2
5 D	17 1	548	346	0 1	202	0 12	74·4	27·7	17 20	46·7	17 17	709	443	0 32	266	1508	2	83·2
6	22 27	536	417	0 13	119	0 6	65·8	40·2	18 53	25·6	18 55	645	484	0 40	161	517	1	83·6
7	17 34	518	474	12 38	44	13 31	61·0	49·6	17 12	11·4	17 15	642	563	0 45	79	105	1	83·6
8	5 0	519	479	12 4	40	11 50	60·9	43·5	21 27	17·4	21 27	647	595	6 36	52	98	0	83·5
9 Q	6 7	519	483	15 0	**36**	14 20	62·7	52·1	4 54	**10·6**	15 4	651	591	4 43	60	69	0	83·3
10 Q	21 55	535	478	11 43	57	12 7	62·8	46·2	22 27	16·6	17 35	653	605	23 30	**48**	105	1	83·4
11 Q	22 44	534	475	10 25	59	12 57	63·7	48·1	23 38	15·6	16 18	634	581	23 9	53	106	0	83·6
12 D	17 36	715	99	22 22	616	23 0	**105·3**	27·1	22 33	**78·2**	17 36	805	195	22 58	610	8611	2	83·4
13	14 52	563	117	0 32	446	6 10	72·6	24·7	1 16	47·9	15 10	685	368	0 33	317	3406	2	83·0
14	16 57	525	473	10 44	52	12 44	61·4	44·2	16 36	17·2	16 30	662	560	0 34	102	184	1	82·4
15	5 20	525	474	10 4	51	13 14	66·8	40·1	17 34	26·7	17 16	683	547	23 30	136	339	1	82·0
16 Q	18 55	516	475	1 15	41	1 32	63·7	52·5	0 45	11·2	15 59	648	565	0 20	83	108	0	82·3
17	21 27	541	467	12 12	74	11 49	62·1	31·3	20 44	30·8	21 40	657	570	1 40	87	299	1	82·5
18	5 51	528	444	12 10	84	11 55	68·7	47·5	21 43	21·2	17 5	693	561	2 8	132	326	1	82·5
19	19 58	556	424	23 26	132	3 30	63·4	39·3	19 55	24·1	19 44	669	529	23 58	140	474	1	82·3
20	19 47	537	460	23 13	77	23 30	62·8	37·3	19 44	25·5	19 35	681	553	23 52	128	340	1	82·0
21	18 42	531	476	10 20	55	11 48	62·9	43·5	19 8	19·4	17 10	650	555	0 1	95	188	1	81·0
22	18 18	549	466	0 57	83	0 56	69·0	45·6	18 8	23·4	18 5	712	516	1 20	196	551	1	80·0
23	20 32	541	411	23 36	130	10 46	61·9	38·4	23 15	23·5	16 40	636	524	22 17	112	392	1	79·7
24	21 34	534	457	0 16	77	5 25	64·9	50·0	0 37	14·9	17 00	637	535	0 15	102	203	1	79·0
25 Q	21 20	541	490	11 2	51	12 4	60·7	47·1	21 17	13·6	16 0	658	557	22 10	101	162	1	77·9
26	19 56	532	484	20 52	48	18 55	61·5	38·9	19 56	22·6	19 42	689	562	0 0	127	276	1	77·2
27	18 22	678	468	12 25	210	15 54	68·9	42·5	18 41	26·4	17 46	846	564	1 50	282	1362	2	77·4
28	17 53	524	347	20 13	177	3 24	66·0	36·8	18 6	29·2	18 00	739	558	2 56	181	795	1	78·1
29 D	15 51	**1001**	**−159**	20 53	**1160**	14 45	89·0	**19·7**	20 47	69·3	14 42	861	**149**	20 56	**712**	9384	2	78·2
30 D	17 54	767	304	4 45	463	17 58	76·6	20·0	17 52	56·6	16 22	**864**	442	4 23	422	4496	2	77·5
31	17 47	530	459	5 2	71	5 50	64·0	44·1	17 42	19·9	14 38	660	530	21 30	130	290	1	77·0
Mean	—	572	390	—	182	—	67·7	39·5	—	28·3	—	696	499	—	196	1356	1·16	81·4
No. of Days used.	—	31	31	—	31	—	31	31	—	31	—	31	31	—	31	31	31	31

§ For explanation *see* page 32. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

*Mean for 30 days. October 25th omitted.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

45. Lerwick. (H.) 14,000 γ (·14 C.G.S. unit) + **November, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	502	494	495	495	507	511	511	511	503	480	479	478	488	492	498	505	507	492	497	499	502	504	504	523	493	499
2	493	497	502	506	509	512	514	506	502	499	487	479	481	494	500	498	488	492	490	495	496	500	497	506	499	498
3	499	495	487	491	504	510	517	404	504	485	466	471	483	492	488	490	487	493	497	491	498	483	479	469	478	491
4	478	477	471	499	504	493	486	482	488	470	448	442	473	504	498	494	492	497	495	494	499	496	497	495	494	487
5 D	493	493	493	497	481	502	512	512	482	462	472	474	482	494	496	495	489	552	514	498	492	498	479	489	490	494
6 D	489	471	430	466	484	480	497	501	493	483	480	446	471	492	493	505	507	496	483	492	501	502	496	480	475	**485**
7	475	493	468	467	480	494	492	489	484	483	476	487	496	492	504	508	511	514	515	508	507	507	524	504	508	496
8 D	507	499	491	506	504	507	482	485	492	476	462	462	488	484	498	520	509	503	525	520	491	473	486	469	479	493
9	478	459	466	472	480	498	511	511	501	495	494	489	472	482	488	490	507	506	504	506	520	519	508	487	475	493
10	474	444	475	492	493	489	488	509	501	492	487	492	493	498	501	506	507	511	513	502	504	504	508	504	501	496
11	500	504	504	505	506	509	507	508	510	504	489	486	491	496	499	500	508	505	500	500	501	509	512	504	507	503
12 Q	506	504	504	505	508	511	511	508	507	500	498	495	494	496	503	509	508	511	514	516	517	514	513	511	510	507
13	510	509	509	515	520	519	521	519	516	514	517	499	502	506	507	610	513	518	520	524	510	503	504	525	495	513
14	495	503	501	505	507	509	517	519	518	507	501	500	491	480	507	504	512	505	509	514	529	498	509	512	507	507
15	507	508	509	511	513	507	509	510	507	498	501	498	496	491	498	508	515	519	489	491	497	498	508	448	490	501
16 D	489	499	503	499	494	502	517	514	509	506	504	496	500	510	501	505	501	514	508	496	479	447	444	498	487	497
17	486	497	487	492	498	502	506	504	492	499	502	502	507	513	498	510	506	509	533	495	498	493	477	480	492	500
18	493	504	503	496	486	489	498	500	494	491	499	501	496	501	500	529	510	508	511	500	490	502	499	490	506	500
19	506	504	498	498	510	516	509	507	503	497	487	499	501	514	511	514	510	514	511	532	548	502	493	498	493	507
20	493	495	491	493	501	502	505	494	500	498	492	493	498	500	501	509	509	512	520	503	503	505	506	498	499	501
21 Q	499	502	501	502	499	501	503	499	502	501	497	498	499	497	489	501	510	508	510	508	507	506	505	504	502	502
22 Q	502	500	503	502	504	505	508	507	507	503	500	499	498	499	503	503	509	510	509	510	512	511	510	507	509	505
23	509	506	506	506	506	507	509	508	506	500	499	499	500	506	508	510	510	511	508	506	501	504	514	502	507	506
24	507	506	501	504	507	511	514	513	511	507	504	499	496	496	501	506	507	509	510	513	511	525	504	507	509	507
25	509	511	509	514	523	528	520	520	519	511	506	506	506	509	509	505	508	514	514	517	522	519	514	514	519	**514**
26 D	520	513	505	512	519	520	523	521	519	515	511	514	506	487	497	567	526	488	495	495	491	493	479	459	491	507
27	491	473	457	434	418	494	516	507	499	492	498	499	493	494	497	499	501	502	486	492	521	494	483	493	495	489
28 Q	495	495	497	498	499	503	503	503	503	495	497	486	478	484	492	489	490	489	492	498	499	500	508	503	499	496
29	499	498	499	500	505	505	513	510	505	501	499	497	499	498	499	497	496	493	496	498	500	498	495	499	515	500
30 Q	515	493	496	499	501	511	508	502	507	504	502	501	499	498	500	501	505	507	509	509	509	505	505	502	504	503
Mean	497	495	492	496	499	505	**508**	506	503	496	492	**490**	493	497	499	506	505	507	506	504	505	500	499	496	498	500

MAGNETIC DECLINATION (WEST).

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

46. Lerwick. (D.) 13° + **November, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	54·3	55·1	57·2	57·0	54·1	54·1	54·1	53·3	53·3	54·5	57·2	56·8	58·3	59·1	58·5	57·2	57·2	53·9	54·3	54·9	54·5	54·3	51·4	49·7	53·5	55·2
2	53·5	56·2	57·0	54·3	54·3	54·5	54·9	55·8	55·1	54·5	55·8	57·8	58·9	59·9	59·7	58·1	57·8	54·1	53·5	54·1	54·1	54·5	53·7	51·0	51·8	55·5
3	51·8	54·5	57·4	57·2	53·7	53·3	54·5	54·9	56·0	56·2	59·5	60·8	62·2	62·6	61·8	63·2	58·3	54·9	48·3	52·7	51·8	43·7	41·5	48·5	56·6	55·1
4	56·6	60·5	51·0	49·8	52·7	54·9	64·1	58·1	56·8	58·7	58·9	62·4	62·4	59·3	61·8	59·1	58·9	56·2	56·2	51·8	53·3	54·7	54·5	53·7	54·3	**56·9**
5 D	54·3	54·3	54·7	52·5	55·4	54·5	54·7	56·2	56·4	56·8	59·7	60·8	58·3	59·1	58·9	58·0	57·6	51·0	52·2	46·8	48·7	44·1	48·5	54·5	54·1	54·5
6 D	54·1	55·1	61·6	56·2	55·3	62·8	61·4	58·3	56·8	56·4	58·0	57·6	62·2	58·1	58·5	56·2	57·6	40·6	48·9	56·4	52·4	51·2	47·9	48·3	51·6	55·4
7	51·6	56·2	56·0	55·1	54·5	53·7	56·0	57·8	58·0	56·6	56·2	56·4	57·6	54·7	56·4	56·2	55·3	52·7	54·7	55·3	51·2	51·0	43·1	49·3	49·5	54·4
8 D	49·5	53·3	55·4	54·7	56·4	57·4	57·8	62·8	56·8	55·6	57·2	58·0	58·9	52·7	59·1	49·8	55·3	53·7	43·7	43·3	48·9	49·5	49·7	55·8	54·5	54·1
9	54·5	58·0	51·8	54·5	53·5	56·2	55·6	54·1	52·7	52·9	53·9	57·0	58·0	58·1	58·1	57·2	52·7	55·3	54·9	53·3	46·6	48·5	47·5	44·1	47·0	53·6
10	47·0	52·5	58·0	54·1	55·1	57·6	60·3	58·9	54·1	54·1	54·3	55·4	57·0	57·6	58·0	56·0	52·2	51·6	46·4	49·2	52·7	52·9	52·5	54·5	56·2	54·4
11	56·2	55·1	53·7	54·1	54·5	54·1	54·7	54·5	54·1	54·7	54·3	56·0	58·5	55·8	57·8	58·0	48·9	51·8	54·9	53·5	51·8	51·4	55·4	52·7	53·9	54·4
12 Q	53·8	53·4	54·0	54·2	54·2	54·2	54·0	54·0	53·4	52·8	54·2	55·9	57·1	57·7	57·5	57·7	56·7	56·1	55·3	54·6	54·2	53·8	53·8	53·0	52·4	54·8
13	52·4	53·2	52·6	53·4	54·4	55·0	54·6	54·4	53·8	53·0	55·2	56·7	59·6	59·8	59·0	57·9	56·5	56·3	55·9	57·7	55·5	50·1	52·1	55·2	47·8	55·1
14	47·8	49·7	49·2	54·2	53·2	52·6	53·8	54·2	53·8	54·2	54·6	57·9	60·2	60·9	62·1	54·6	64·0	62·3	60·7	54·4	43·6	52·4	52·6	53·0	52·6	54·9
15	52·6	53·8	54·6	54·4	53·6	55·5	55·2	55·2	54·6	55·2	56·3	57·7	59·2	58·8	58·4	58·2	56·1	42·4	50·7	51·7	53·8	52·8	60·6	59·8	49·9	55·0
16 D	49·9	59·8	51·5	48·8	52·4	52·6	54·4	55·7	55·5	55·5	56·7	58·2	58·6	61·3	58·8	57·5	57·5	48·0	47·6	46·9	41·3	44·9	42·0	47·7	51·8	**52·7**
17	51·7	51·4	54·7	53·5	53·1	53·7	52·5	56·2	57·0	57·0	56·4	58·1	57·8	58·1	58·1	55·4	57·0	50·6	42·7	49·8	52·3	54·7	56·6	47·7	48·7	53·9
18	48·7	53·9	52·3	52·3	53·7	54·1	54·7	55·8	57·2	55·6	54·7	59·7	57·6	60·1	62·8	50·4	55·6	53·1	50·4	54·9	46·8	49·6	53·9	59·1	55·8	54·6
19	55·8	51·6	54·3	51·2	51·0	53·9	54·3	55·2	55·6	56·0	56·8	57·6	56·4	56·4	58·3	51·6	57·2	55·8	52·5	47·0	37·9	49·3	48·9	49·6	51·8	52·9
20	51·8	53·7	53·1	54·3	52·2	52·3	53·1	53·7	54·5	53·9	54·3	55·6	57·9	58·5	56·0	56·2	55·8	47·7	46·2	55·8	55·1	54·3	52·2	55·5	56·3	54·0
21 Q	56·2	53·4	54·2	53·8	53·4	54·0	53·8	53·8	53·4	53·8	54·6	55·7	56·9	57·5	55·9	55·7	56·1	55·9	50·5	55·7	54·8	54·0	53·4	53·8	54·0	54·6
22 Q	54·0	54·2	54·6	54·2	54·4	54·0	54·0	54·2	55·3	55·5	56·3	57·5	57·7	57·8	57·8	56·1	55·9	56·1	55·1	55·0	54·4	54·0	53·8	53·0	53·0	55·2
23	53·0	54·0	54·2	54·4	54·4	54·2	54·0	54·0	54·0	54·0	54·8	55·9	56·9	57·7	57·1	56·3	56·3	56·5	55·0	55·5	53·4	49·7	47·6	52·8	53·6	54·4
24	53·6	53·4	52·4	52·4	52·8	53·8	54·2	54·8	55·5	54·6	56·1	56·7	57·8	58·0	58·4	58·6	59·6	58·6	58·0	56·1	54·0	48·2	50·7	53·8	54·0	55·1
25	54·0	54·4	55·0	56·1	55·0	53·6	54·0	54·2	54·4	54·0	55·3	56·3	57·1	58·4	58·0	57·8	56·9	57·7	57·7	56·3	55·9	55·1	52·4	51·7	53·6	55·5
26 D	53·6	52·6	57·5	54·2	50·5	53·6	55·0	54·4	54·4	54·6	54·6	57·1	59·4	61·9	65·0	62·7	66·7	60·0	55·5	55·0	53·0	47·2	40·5	50·5	49·4	55·3
27	49·4	45·9	48·4	55·5	60·7	56·7	53·8	54·8	54·4	54·2	54·0	55·3	55·9	56·9	57·3	55·9	55·1	56·7	56·3	54·6	51·9	49·4	51·1	51·9	51·5	54·0
28 Q	51·4	52·2	54·1	53·9	54·9	54·7	55·8	54·7	54·3	53·3	54·3	55·8	56·4	57·9	59·3	57·2	58·5	55·4	55·8	54·1	53·1	52·3	51·8	53·1	53·9	54·8
29	53·9	54·7	54·5	55·0	54·9	55·0	53·1	53·5	53·7	53·7	54·7	55·2	56·6	57·0	57·6	56·4	57·0	52·3	53·5	53·7	53·3	52·3	50·4	49·4	47·3	54·1
30 Q	47·3	50·4	52·7	52·1	53·9	53·7	54·3	55·4	55·0	54·9	56·0	56·6	56·2	56·8	56·4	55·2	54·7	54·9	54·3	54·1	53·9	53·5	53·3	53·7	53·5	54·3
Mean	52·5	53·9	54·3	53·9	54·1	54·7	55·2	55·4	55·0	54·9	55·8	57·3	58·3	58·3	**58·7**	56·7	56·8	53·7	52·7	53·1	51·5	51·1	**50·8**	52·2	52·5	54·6

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

47. Lerwick. (V.) 46,000 γ (·46 C.G.S. unit) + **November, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	541	549	551	559	575	590	602	610	615	616	613	618	621	622	623	630	639	662	659	646	637	628	615	580	589	**609**
2	589	590	585	590	599	601	604	608	614	618	619	625	625	631	636	651	670	679	675	670	660	655	652	638	636	629
3	636	637	639	628	630	636	635	642	647	655	661	660	664	672	681	688	695	705	708	706	702	694	674	647	632	664
4	632	573	595	616	634	630	619	626	632	641	650	656	672	686	691	699	684	679	675	673	664	658	652	649	645	650
5 D	645	639	633	624	614	585	593	594	603	613	605	608	607	614	614	630	660	746	720	707	655	633	638	632	614	633
6 D	614	612	568	568	597	569	563	588	607	615	628	642	655	658	663	654	643	667	663	640	638	635	615	608	613	621
7	613	596	611	598	599	612	615	615	614	619	628	635	640	666	651	641	639	638	635	638	642	640	610	604	605	625
8 D	605	619	609	600	597	580	589	580	604	622	647	656	659	689	684	700	674	662	656	642	625	497	545	542	522	618
9	522	521	545	532	580	603	610	611	613	616	622	623	635	647	656	659	660	646	639	637	634	619	608	599	564	611
10	564	537	570	590	601	600	605	607	619	626	627	628	627	630	638	647	657	658	650	648	616	609	623	618	615	618
11	615	623	630	631	631	630	630	628	629	626	635	637	640	652	659	658	664	660	659	657	656	646	633	627	630	640
12 Q	630	640	644	644	644	644	645	645	645	645	645	644	644	647	649	652	655	655	654	653	651	650	650	647	644	647
13	644	641	638	636	633	632	631	629	630	627	620	622	619	611	614	619	623	626	629	632	660	659	647	616	614	630
14	614	619	617	625	628	628	629	623	626	627	630	631	639	651	656	679	667	668	683	680	667	663	655	655	653	645
15	653	652	649	651	652	656	657	658	660	661	660	660	664	667	667	669	673	691	700	698	673	676	633	580	609	660
16 D	609	582	602	627	634	628	638	643	646	650	654	654	651	660	676	705	735	771	739	731	690	623	539	632	643	656
17	643	634	654	652	664	665	662	661	660	657	663	663	663	664	674	681	675	685	678	682	686	649	566	577	574	651
18	574	590	628	640	641	631	623	637	643	656	665	658	661	668	681	700	688	673	663	666	673	668	650	611	621	650
19	621	643	627	611	623	624	627	631	636	639	640	642	648	645	649	659	654	645	653	636	620	603	622	631	640	635
20	640	639	639	634	632	631	632	637	637	640	641	643	645	647	655	665	662	669	670	665	667	668	667	658	640	649
21 Q	640	655	663	664	662	660	659	661	662	661	658	653	655	657	660	666	667	666	669	678	677	678	674	670	668	664
22 Q	668	667	662	659	655	652	649	646	644	640	638	639	638	635	638	642	648	652	651	648	641	639	637	639	636	646
23	636	635	635	635	633	631	630	632	633	634	636	639	641	643	645	647	647	651	657	661	666	668	616	619	619	640
24	619	618	614	617	620	621	622	622	623	626	628	632	632	636	639	643	647	646	644	637	631	615	609	606	609	627
25	609	613	614	610	604	606	612	614	618	622	622	623	626	629	639	654	665	671	669	662	657	653	653	650	636	634
26 D	636	634	623	593	612	627	632	637	638	640	644	645	656	694	724	815	795	735	699	701	714	700	664	645	601	**670**
27	601	604	587	570	552	587	622	647	662	665	664	665	667	668	673	676	680	680	694	693	658	662	651	592	642	643
28 Q	642	653	656	654	656	656	655	655	654	656	653	656	661	663	668	664	673	681	682	676	673	669	658	654	654	661
29	654	653	653	653	649	648	642	647	649	650	649	649	647	652	653	658	662	675	676	670	667	666	665	658	627	655
30 Q	627	630	641	640	642	639	640	639	642	641	635	632	635	639	648	657	666	676	675	667	659	656	655	652	645	648
Mean	618	**617**	619	618	623	623	626	629	633	637	639	641	645	651	657	667	669	**674**	671	667	659	646	633	625	621	641

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS:

48. Lerwick. MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **November, 1931.**

Day.	Terrestrial Magnetic Elements. Horizontal Force. Maximum 14,000 γ +		Minimum 14,000 γ +		Range.	Declination. Maximum 13° +		Minimum 13° +		Range.	Vertical Force. Maximum 46,000 γ +		Minimum 46,000 γ +		Range.	Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2).	Temperature in Magnet House. 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ			°A.
1	22 46	552	473	9 12	79	2 30	60·7	47·1	23 20	13·6	17 35	670	540	0 0	130	265	1	77·0
2	23 4	516	477	10 51	39	12 56	60·7	49·5	23 33	11·2	16 33	689	582	1 50	107	152	1	78·4
3	5 47	521	461	10 13	60	12 48	63·7	37·5	21 19	26·2	17 48	715	625	23 59	90	240	1	79·5
4	13 27	521	430	10 43	91	0 45	67·6	48·1	2 16	19·5	14 40	703	539	1 6	164	419	1	80·3
5 D	17 0	**676**	446	8 58	**230**	16 44	64·3	36·9	17 26	27·4	16 58	834	578	4 52	256	1319	2	80·7
6 D	14 35	515	402	1 47	113	12 6	66·8	**31·5**	17 8	35·3	14 25	674	540	5 30	134	529	1	80·7
7	21 54	557	423	2 22	134	12 20	59·7	36·3	21 53	23·4	13 7	681	587	0 46	94	366	1	80·9
8 D	17 45	556	357	20 46	199	6 26	66·1	33·1	17 39	33·0	15 4	708	**457**	21 7	251	1222	2	81·0
9	20 6	547	428	1 2	119	0 43	64·5	36·3	20 3	28·2	16 9	669	503	1 12	166	559	1	81·1
10	17 29	542	428	1 11	114	6 24	62·8	34·6	17 26	28·2	17 24	665	527	0 58	138	462	1	81·2
11	16 22	528	479	10 53	49	12 26	59·5	42·7	16 5	16·8	16 11	665	620	22 25	45	95	0	81·2
12 Q	19 50	519	491	12 8	28	14 52	58·6	51·3	23 32	7·3	18 15	656	627	0 1	**29**	26	0	81·2
13	23 2	546	483	23 47	63	23 22	61·7	44·7	24 0	17·0	20 17	678	596	23 27	82	159	1	81·1
14	19 42	558	466	12 47	92	16 22	66·3	34·5	19 32	31·8	14 50	690	613	1 45	77	326	1	80·7
15	16 57	544	351	22 46	193	22 38	**82·9**	34·3	16 42	**48·6**	18 15	712	534	22 38	178	1114	1	80·7
16 D	16 56	536	**329**	21 44	207	1 0	65·6	32·4	21 50	33·2	16 57	813	459	21 36	**354**	1878	2	80·9
17	17 42	549	431	21 40	118	13 55	62·0	38·3	17 23	23·7	17 18	691	555	22 2	136	424	1	80·8
18	14 55	560	458	23 5	102	22 55	67·6	41·3	14 50	26·3	14 44	718	556	0 20	162	490	1	80·7
19	20 21	558	464	21 32	94	14 8	60·8	33·4	20 12	27·4	18 0	665	590	20 53	75	279	1	80·6
20	17 26	543	485	17 6	58	23 24	63·8	34·0	17 24	29·8	17 20	681	629	23 45	52	219	1	80·2
21 Q	18 6	515	483	13 56	32	13 0	58·0	47·2	18 2	10·8	20 55	680	635	0 1	45	52	0	80·3
22 Q	20 13	514	489	11 43	**25**	14 0	58·4	52·4	22 48	**6·0**	0 10	669	634	13 0	35	25	0	80·0
23	21 35	536	492	20 53	44	12 46	58·0	39·7	21 17	18·3	21 15	671	614	21 45	57	111	1	79·8
24	21 8	540	493	12 28	47	16 10	60·4	46·1	21 20	14·3	16 45	648	601	21 13	47	80	0	80·0
25	5 18	533	500	15 21	33	12 54	59·2	49·4	22 44	9·8	17 15	672	603	5 3	69	75	0	80·0
26 D	15 17	609	441	23 9	168	16 5	73·7	35·8	22 9	37·9	15 15	**878**	588	23 45	290	1382	1	80·2
27	19 45	552	360	3 45	192	3 30	65·0	43·9	0 43	21·1	17 55	700	539	3 45	161	707	1	80·4
28 Q	22 27	517	474	11 30	43	14 25	60·1	48·5	21 45	11·6	17 55	688	641	0 1	47	65	0	80·6
29	23 35	539	483	17 27	56	12 12	58·1	41·5	23 25	16·6	17 50	680	625	24 0	55	111	1	80·5
30 Q	0 1	515	489	1 7	26	11 5	57·4	46·4	0 1	11·0	17 0	678	625	0 1	53	57	0	80·4
Mean	—	544	449	—	95	—	63·1	41·0	—	22·2	—	698	579	—	119	440	0·83	80·4
No. of Days used.	—	30	30	—	30	—	30	30	—	30	—	30	30	—	30	30	30	30

For explanation *see* p. 32. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

49. Lerwick. (H.) 14,000 γ (·14 C.G.S. unit) + **December, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	504	509	510	511	512	516	518	508	512	508	507	504	507	488	488	499	503	505	490	495	504	488	491	499	494	503
2 D	495	488	500	504	506	507	511	513	507	488	497	496	463	480	495	509	503	505	509	509	540	492	477	495	488	499
3 D	489	488	474	492	497	477	504	520	510	478	477	485	491	490	493	500	513	501	514	513	529	522	488	491	494	497
4 D	495	495	496	482	498	507	501	515	487	482	498	486	480	487	499	499	494	509	521	503	502	493	520	502	459	497
5 D	459	464	489	500	503	512	497	513	511	492	485	490	482	479	491	495	494	506	507	505	505	523	511	495	494	497
6	495	503	501	486	474	504	516	512	509	506	498	496	478	484	488	511	514	507	506	516	511	508	506	509	510	502
7	511	509	508	508	504	511	516	517	516	505	500	491	494	501	510	513	504	504	501	509	510	523	515	511	512	508
8	513	512	518	512	517	518	521	518	518	518	514	510	514	514	517	514	514	517	520	516	512	506	507	514	513	**515**
9	513	516	517	518	520	523	522	528	524	518	514	516	516	517	516	506	509	518	510	509	501	505	508	508	509	515
10	510	519	518	513	518	526	535	525	488	503	494	485	501	516	515	515	516	514	515	517	515	513	522	508	502	512
11 D	503	502	507	508	508	512	516	510	511	511	506	498	502	516	521	518	523	508	514	534	602	509	493	502	504	514
12	504	489	479	473	486	495	501	504	504	499	492	490	464	489	502	499	494	505	502	531	508	496	472	502	487	**495**
13	488	496	493	487	493	497	500	504	504	503	501	503	504	505	501	486	491	496	505	499	499	512	501	504	501	499
14	502	488	493	495	499	502	501	502	502	501	500	501	502	500	509	504	503	501	498	502	497	501	501	513	484	500
15	484	490	492	493	497	504	505	508	501	494	492	488	496	500	503	505	502	495	504	502	509	529	491	488	492	499
16	493	498	493	494	499	507	496	509	502	505	502	497	495	504	501	507	503	498	502	521	510	496	507	512	498	502
17	499	484	506	500	505	504	516	513	516	516	513	509	511	496	510	512	516	511	515	513	508	505	506	506	505	508
18	505	506	503	503	506	507	510	511	511	511	511	510	508	508	511	515	505	509	509	510	509	507	507	506	506	508
19 Q	507	508	505	506	508	508	511	511	512	511	512	506	507	503	507	509	512	513	514	511	513	508	509	508	507	509
20 Q	507	505	504	507	507	509	511	512	511	509	511	508	506	503	505	510	511	512	512	511	512	511	511	507	505	509
21 Q	505	502	502	505	508	511	512	509	508	507	508	508	509	510	511	510	512	513	511	512	512	510	509	505	503	509
22	503	506	507	507	505	528	524	513	512	511	512	511	508	507	511	516	518	518	517	514	513	512	508	500	501	512
23	501	504	503	505	507	508	511	513	513	512	512	509	511	512	509	505	495	502	509	512	504	488	493	494	493	505
24	493	497	496	500	500	507	506	507	507	507	507	504	505	507	506	507	507	507	507	505	504	504	504	500	500	504
25	500	500	494	497	505	504	507	508	506	496	502	499	494	498	504	507	509	500	500	519	477	489	488	489	495	500
26 Q	495	497	497	498	500	502	505	506	506	504	501	498	496	500	504	505	505	505	501	501	499	496	503	503	501	501
27 Q	501	502	500	498	496	504	505	507	508	508	505	502	503	500	500	500	507	508	509	508	505	505	503	503	503	504
28	503	502	503	502	504	508	510	511	504	509	510	512	515	517	507	500	504	504	517	501	496	499	491	482	505	505
29	505	492	500	503	498	499	493	506	509	505	493	469	490	504	486	503	508	504	508	502	504	503	500	498	488	499
30	488	471	478	501	484	492	506	497	504	503	487	491	484	493	487	494	495	499	504	504	500	511	514	516	487	496
31	487	488	496	499	498	504	506	492	488	493	493	501	499	501	509	503	492	501	493	520	515	494	505	491	480	499
Mean	499	498	499	500	502	507	509	510	507	504	502	499	498	501	504	506	506	506	508	510	**510**	505	502	502	**497**	504

MAGNETIC DECLINATION (WEST).

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

50. Lerwick. (D.) 13° + **December, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	53·5	53·7	54·3	54·3	55·2	55·6	54·3	55·4	58·7	55·2	54·7	55·4	57·4	60·1	57·6	56·0	56·8	55·2	54·1	50·4	46·0	46·4	46·7	51·0	52·1	54·1
2 D	52·1	52·0	51·6	52·0	53·9	54·7	55·4	55·0	57·7	63·1	59·5	60·6	58·3	59·9	61·0	51·8	57·7	57·4	54·3	51·4	41·5	38·1	44·6	52·1	59·1	54·1
3 D	59·1	57·4	44·4	50·4	53·9	59·3	57·2	57·0	57·0	57·6	59·5	57·6	56·0	57·9	56·4	49·8	49·3	55·4	47·3	49·8	39·8	42·7	44·2	53·3	55·2	52·9
4 D	55·2	55·2	56·2	55·6	56·2	55·6	58·1	61·0	59·5	60·4	57·9	58·9	57·7	57·9	53·5	53·3	51·2	54·5	46·7	52·1	51·8	48·7	45·2	48·5	55·4	54·6
5 D	55·4	55·6	52·5	54·1	54·3	55·0	54·3	55·6	56·4	54·5	54·9	56·8	55·6	51·8	57·6	51·2	54·5	54·9	54·1	54·5	52·1	51·8	45·8	46·4	48·3	53·6
6	48·3	52·9	53·7	57·0	58·9	55·4	54·1	53·7	53·9	55·6	56·0	57·2	54·7	57·6	58·1	53·5	50·2	52·1	54·1	47·1	52·1	53·3	50·8	50·6	51·4	53·9
7	51·5	53·2	54·0	55·5	55·9	56·5	54·4	54·2	54·2	53·8	55·5	55·7	55·9	55·9	56·7	55·1	54·2	55·0	52·8	54·4	53·0	52·2	50·9	52·2	53·6	54·3
8	53·6	52·6	57·5	54·4	54·2	54·6	54·2	54·0	54·0	53·8	54·8	55·1	55·7	55·9	55·9	55·0	54·6	54·4	54·4	54·4	53·2	52·6	51·9	54·0	51·3	54·3
9	51·3	52·1	54·0	54·4	54·4	54·4	54·6	54·6	54·8	55·1	54·8	55·3	55·5	56·5	56·9	56·9	56·3	55·3	55·5	51·7	51·3	50·7	51·9	52·8	52·4	54·2
10	52·4	55·9	51·1	53·6	50·5	52·4	54·4	54·6	55·3	60·4	57·7	60·0	57·5	55·9	55·7	55·0	54·8	54·2	54·0	53·8	53·4	51·9	50·3	49·5	48·2	54·3
11 D	48·2	49·9	50·3	52·2	53·6	53·0	52·2	53·8	54·0	54·2	54·8	56·1	55·9	54·4	55·1	56·9	61·3	61·1	58·2	57·8	45·3	49·7	50·3	44·9	46·7	53·4
12	46·7	50·7	55·7	54·6	51·1	53·8	53·0	52·8	53·8	54·2	55·0	56·5	56·9	56·5	56·7	57·5	43·6	55·0	55·0	39·5	46·3	46·1	49·5	47·0	48·8	**52·0**
13	48·9	52·2	51·2	53·7	54·9	53·3	52·9	52·9	52·9	52·7	54·1	55·8	56·0	55·4	56·2	54·3	54·7	57·0	50·0	54·5	50·6	46·2	48·7	52·0	51·0	53·0
14	51·0	55·4	54·3	52·7	53·3	53·1	53·7	53·3	53·5	54·1	55·1	56·4	56·2	55·2	56·0	56·2	51·4	54·9	56·2	51·6	48·5	52·5	49·3	42·3	50·4	53·2
15	50·4	51·6	53·3	54·3	52·9	53·7	54·7	54·7	54·9	53·3	54·5	53·9	56·2	57·8	56·2	54·5	54·5	46·9	50·4	53·9	50·6	43·1	46·2	50·4	51·4	52·6
16	51·4	52·9	54·5	57·4	55·6	53·1	53·9	53·5	52·7	53·9	54·5	54·9	56·6	57·2	57·4	55·6	57·8	58·5	55·6	52·5	51·2	50·2	52·3	53·7	51·8	54·5
17	51·9	58·4	52·1	50·5	51·9	54·4	54·0	53·8	53·2	53·0	55·5	54·7	57·9	56·5	56·5	57·1	56·9	57·7	56·7	56·7	54·2	48·6	51·7	51·9	53·4	54·4
18	53·4	54·0	54·0	53·8	53·8	54·4	54·2	54·2	54·0	53·8	53·8	54·6	55·0	55·2	55·9	56·5	56·1	57·1	56·1	55·7	53·8	53·0	52·1	52·3	52·8	54·4
19 Q	52·8	52·1	52·3	54·0	54·2	53·4	54·0	53·6	53·6	53·4	53·4	53·8	54·6	55·7	55·5	55·3	54·8	54·8	54·6	54·6	52·8	53·2	52·8	53·0	53·6	53·9
20 Q	53·7	53·3	52·9	53·9	52·9	53·9	54·1	53·7	53·3	53·3	54·1	54·1	54·9	55·8	55·8	55·4	54·7	54·1	53·7	53·3	53·3	52·2	51·0	52·7	53·1	53·7
21 Q	53·1	52·9	53·1	53·3	53·3	53·3	53·3	53·5	53·5	53·7	54·5	54·9	55·3	55·1	54·9	54·5	54·3	54·3	53·9	53·3	53·9	53·5	49·5	51·8	51·4	53·6
22	51·4	52·2	52·9	52·5	54·1	52·9	48·7	51·2	52·2	52·5	54·3	55·1	55·8	56·2	56·0	56·0	55·6	55·4	55·3	55·3	54·1	53·7	49·3	47·3	51·4	53·3
23	51·4	53·9	54·3	54·3	54·1	53·3	53·5	53·3	53·3	53·7	54·7	55·6	57·2	57·4	57·8	59·7	62·4	62·6	62·4	58·0	51·0	47·3	47·5	52·0	52·5	55·1
24	52·5	51·4	51·2	52·7	53·5	53·3	53·7	53·7	53·3	53·5	54·9	55·4	55·8	56·0	55·4	55·1	54·3	53·7	53·3	52·9	52·2	52·2	52·9	51·4	52·9	53·5
25	52·9	53·3	51·4	50·0	45·8	49·3	51·2	53·1	53·3	52·9	54·7	56·8	57·6	56·8	56·6	56·8	55·8	57·8	58·3	41·4	49·3	49·5	49·3	50·6	52·5	52·7
26 Q	52·5	53·1	54·7	54·1	53·9	53·9	53·5	53·1	52·4	52·4	53·7	54·1	54·9	55·6	55·6	54·9	54·1	54·1	53·9	53·7	53·3	51·8	52·2	51·4	53·3	53·6
27 Q	53·2	53·8	53·6	53·8	54·0	53·4	53·2	53·2	53·2	53·4	54·2	55·2	55·7	56·7	57·5	56·9	55·0	54·0	53·6	53·2	53·0	52·8	52·8	53·2	53·4	54·1
28	53·4	52·8	54·6	53·6	53·2	53·4	53·4	53·4	53·8	54·8	56·3	56·9	57·5	58·0	58·0	58·8	59·0	60·4	59·8	55·7	51·9	53·0	52·3	48·0	45·1	54·9
29	45·1	49·6	51·9	52·6	52·3	53·8	56·7	59·0	56·5	56·3	56·7	60·0	59·8	60·6	61·7	63·4	56·7	56·3	53·0	53·2	53·2	53·2	53·4	52·1	49·0	**55·4**
30	48·9	41·5	63·0	46·9	49·6	60·6	52·5	55·6	55·1	57·0	58·3	57·2	58·9	58·1	55·6	53·5	55·1	54·9	54·7	52·9	50·2	50·0	47·3	39·8	44·6	53·1
31	44·6	52·9	53·5	51·2	51·8	54·3	55·2	59·3	62·4	60·8	55·8	55·2	55·6	56·0	54·7	53·1	54·7	48·9	49·6	44·0	44·2	49·8	48·9	49·5	48·5	52·8
Mean	51·6	52·9	53·4	53·3	53·5	54·2	54·0	54·5	54·7	55·0	55·4	56·1	56·4	**56·6**	56·6	55·5	54·9	55·4	54·3	52·4	50·6	50·0	**49·7**	50·3	51·4	53·8

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56-61.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

51. Lerwick. (V.) 46,000 γ (·46 C G.S. unit) + **December, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	645	646	645	644	643	639	644	650	646	647	648	651	654	678	696	696	708	693	695	682	657	642	634	626	620	658
2 D	620	580	574	578	604	617	622	627	629	628	620	631	650	655	655	694	675	663	666	663	642	584	632	594	547	**628**
3 D	547	527	559	595	608	597	595	629	641	658	665	664	673	684	684	705	704	689	690	676	667	648	648	633	641	643
4 D	641	658	658	631	631	652	662	662	675	686	697	690	702	709	722	747	763	749	764	720	725	682	661	649	649	**689**
5 D	649	553	588	634	653	654	663	662	664	674	682	682	688	719	724	733	718	682	673	670	670	635	611	629	637	663
6	637	642	646	648	619	627	639	648	652	653	657	658	678	686	687	689	684	679	671	670	662	664	665	644	639	659
7	639	651	651	652	655	645	647	649	648	653	655	658	660	662	661	663	664	665	670	658	651	639	632	638	644	653
8	644	644	627	634	638	640	641	642	642	643	647	647	647	650	653	656	653	651	650	651	653	657	657	647	631	646
9	631	643	649	651	652	650	649	645	646	647	649	650	652	656	660	671	673	665	673	684	691	691	680	671	667	660
10	667	653	633	621	634	644	644	650	665	654	667	665	658	662	668	672	670	665	670	653	642	643	631	631	639	652
11 D	639	646	654	655	656	659	660	661	661	663	667	668	666	668	671	675	676	692	707	715	723	692	675	657	646	671
12	646	651	655	614	621	649	657	656	656	656	655	659	664	660	660	672	705	680	675	664	643	650	610	599	637	652
13	637	642	648	651	650	656	657	657	657	656	653	652	653	653	664	684	684	679	678	674	675	673	657	639	643	660
14	643	651	644	651	658	659	660	660	658	656	655	653	653	655	655	661	670	669	676	677	679	642	639	640	647	657
15	647	645	653	659	659	657	653	653	659	666	665	667	668	664	666	669	675	690	685	682	677	664	666	677	666	666
16	666	663	665	655	658	663	668	667	675	675	675	674	673	672	677	678	683	693	703	706	701	706	694	669	671	678
17	671	647	621	650	661	657	634	656	668	670	671	674	677	681	679	681	682	687	686	687	693	693	687	681	681	671
18	681	680	680	675	675	676	676	676	675	674	672	674	675	674	673	675	680	680	681	683	684	687	686	683	681	678
19 Q	681	677	676	675	674	673	673	673	673	673	674	673	675	674	677	678	678	677	676	679	681	682	682	682	682	677
20 Q	682	681	682	677	678	675	674	674	674	674	674	674	675	676	678	676	676	675	675	675	675	678	678	678	679	676
21 Q	679	679	680	678	675	675	673	673	673	673	675	675	674	673	675	675	675	675	675	675	674	675	679	680	680	676
22	680	678	675	674	672	652	658	662	663	665	665	665	670	674	674	670	669	669	671	673	674	675	680	680	677	670
23	677	673	674	673	671	669	668	665	664	664	665	667	668	668	669	675	695	710	722	756	732	717	702	692	684	685
24	684	678	676	673	672	668	666	665	663	661	662	663	665	666	668	668	668	668	667	665	665	664	661	664	664	667
25	664	662	656	643	646	650	652	653	653	658	659	661	664	663	665	670	670	681	697	704	691	678	673	669	663	666
26 Q	663	663	666	668	668	667	665	665	664	663	664	665	665	665	666	667	667	668	669	668	666	666	657	652	658	665
27 Q	658	660	663	665	665	663	663	663	661	659	660	661	662	662	664	667	666	667	665	664	663	661	661	659	658	663
28	658	659	658	659	662	662	663	662	663	658	658	658	656	657	666	676	680	702	764	771	707	684	675	683	631	676
29	631	652	660	663	665	666	660	654	663	665	670	678	669	680	692	710	734	738	749	706	693	684	683	678	670	682
30	670	616	597	630	622	594	609	648	663	664	672	678	676	678	686	696	695	692	685	683	692	678	664	636	627	658
31	627	606	624	646	655	652	653	661	661	658	664	671	673	668	670	671	679	681	685	670	656	663	651	625	615	657
Mean	652	**645**	646	649	652	652	653	657	660	661	663	665	667	671	674	681	685	683	**687**	684	677	668	662	654	651	665

DAILY EXTREMES OF TERRESTRIAL MAGNETIC ELEMENTS:

52. Lerwick. MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **December, 1931.**

Day.	Terrestrial Magnetic Elements. Horizontal Force. Maximum 14,000γ +		Minimum 14,000 γ +		Range.	Declination. Maximum 13° +		Minimum 13° +		Range.	Vertical Force. Maximum 46,000 γ +		Minimum 46,000 γ +		Range.	Character Figure Σ R² / 100γ² §	Magnetic Character of Day (0–2).	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	′	′	h. m.	′	h. m.	γ	γ	h. m.	γ			°A.
1	6 16	522	472	20 36	50	13 5	62·0	41·5	19 45	20·5	18 27	715	621	24 0	94	189	1	80·2
2 D	20 7	585	444	20 56	141	9 18	64·7	**24·7**	21 6	40·0	15 3	717	555	23 25	162	747	1	80·0
3 D	20 5	564	452	5 11	112	0 10	66·0	34·8	19 55	31·2	15 33	721	**517**	0 23	204	716	1	80·0
4 D	22 0	562	454	21 30	108	7 14	64·3	36·5	17 55	27·8	15 23	795	619	3 20	176	566	1	80·2
5 D	20 57	566	**403**	0 33	163	14 17	64·5	40·6	22 7	23·9	14 25	756	545	1 2	**211**	813	2	79·8
6	19 25	532	465	11 56	67	13 34	60·1	43·3	18 18	16·8	14 23	693	612	4 4	81	161	1	78·8
7	21 8	538	488	11 19	50	4 50	59·4	49·2	22 0	10·2	17 53	676	629	22 6	47	66	1	77·8
8	23 6	530	503	21 57	27	1 53	62·3	49·9	24 0	12·4	20 43	659	613	2 12	46	55	1	77·1
9	7 14	529	494	20 0	35	14 44	57·5	47·6	20 25	9·9	20 25	695	628	0 1	67	75	1	77·3
10	5 58	537	470	7 51	67	1 8	64·2	44·7	23 32	19·5	15 5	674	611	3 20	63	152	1	77·3
11 D	19 37	**837**	463	22 30	**374**	19 38	71·9	26·8	20 5	45·1	19 31	**833**	636	23 42	197	2152	2	78·0
12	19 32	567	431	22 10	136	2 18	63·8	33·3	19 22	30·5	15 44	723	574	22 20	149	573	1	79·1
13	22 13	528	474	14 25	54	16 46	58·7	43·9	20 57	14·8	15 0	693	630	22 28	63	109	1	79·4
14	20 35	536	475	23 45	61	20 45	63·9	39·6	22 44	24·3	20 20	685	628	21 11	57	176	1	79·6
15	21 5	588	467	22 24	121	12 59	58·3	27·8	21 3	30·5	17 17	699	641	0 35	58	346	1	80·0
16	19 16	570	482	2 35	88	19 28	64·7	35·6	19 12	29·1	19 8	725	652	3 6	73	282	1	79·0
17	14 42	528	463	0 54	65	0 51	64·2	45·5	21 23	18·7	21 37	698	608	1 27	90	186	1	78·0
18	14 37	522	498	3 30	24	17 16	57·7	51·1	22 33	6·6	21 12	689	671	9 55	18	17	0	77·3
19 Q	9 46	518	500	13 7	18	13 0	56·1	51·1	9 42	**5·0**	21 22	684	672	8 22	12	9	0	77·5
20 Q	21 24	513	500	23 15	**13**	12 55	56·2	49·8	21 50	6·4	0 48	683	673	11 27	**10**	10	0	77·4
21 Q	21 49	515	498	23 54	17	12 10	55·6	44·8	22 5	10·8	22 25	683	671	12 20	12	25	0	77·5
22	4 54	534	493	23 28	41	4 28	56·8	43·3	22 30	13·5	22 14	688	647	4 57	41	66	1	77·8
23	18 35	521	459	21 3	62	18 28	64·3	40·4	20 14	23·9	19 16	776	663	8 15	113	268	1	78·0
24	21 32	511	490	0 1	21	13 5	56·6	49·5	1 46	7·1	0 14	685	658	21 38	27	21	0	78·5
25	18 47	568	469	20 4	99	18 32	60·8	28·4	18 56	32·4	18 46	744	633	3 20	111	409	1	79·1
26 Q	21 49	515	492	12 14	23	13 23	56·0	49·3	22 29	6·7	18 40	671	647	22 31	24	19	0	78·8
27 Q	8 38	511	492	3 40	19	13 42	57·9	52·4	7 26	5·5	15 15	668	658	0 1	**10**	10	0	78·8
28	23 35	554	473	23 2	81	18 27	67·1	41·8	23 31	25·3	18 30	801	616	23 52	185	520	1	78·7
29	16 31	518	463	10 59	55	14 50	65·4	42·6	0 15	22·8	17 50	766	619	0 1	147	339	1	77·2
30	23 3	534	431	1 12	103	1 43	**77·1**	30·5	0 53	**46·6**	15 36	702	566	2 0	136	679	1	76·3
31	19 4	556	470	23 47	86	7 51	63·0	34·0	18 56	29·0	16 30	693	595	1 11	98	321	1	75·7
Mean	—	549	472	—	77	—	62·0	41·1	—	20·9	—	713	623	—	90	325	0·84	78·4
No. of Days used	—	31	31	—	31	—	31	31	—	31	—	31	31	—	31	31	31	31

§ For explanation *see* p. 32. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 56–61.

DIURNAL INEQUALITIES OF THE TERRESTRIAL MAGNETIC ELEMENTS.—"ALL" DAYS.

Departures from mean of the day adjusted for non-cyclic change.

HORIZONTAL FORCE (*all days*).

53. Lerwick. **1931.**

Month and Season.	Hour. 1.	G.M.T. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan. ...	**-7.2**	-5.1	-2.0	+0.1	+2.6	**+4.9**	+4.7	+3.1	-0.9	-0.3	-0.8	-1.2	+0.4	+2.1	+0.3	+1.3	+1.5	+3.3	+1.8	+1.0	-0.8	-2.1	-3.2	-3.5
Feb. ...	-5.5	-5.1	-4.6	-3.9	0.0	+2.7	+3.3	-0.4	-4.4	-6.3	**-8.4**	-7.9	-5.1	-1.2	+3.5	+7.4	+9.0	+12.5	**+14.7**	+9.5	+3.2	-1.1	-4.1	-7.8
Mar. ...	-0.6	+1.1	+3.8	+2.3	+5.0	+6.3	+5.6	-0.5	-10.3	-16.3	**-21.5**	-20.9	-15.2	-6.7	+1.9	+7.2	+6.6	+10.1	**+11.0**	**+11.0**	+6.4	+5.8	+4.4	+3.5
April ...	+6.9	+5.0	+3.8	+4.7	+4.1	+3.3	-0.8	-9.3	-19.6	-27.3	**-30.6**	-27.9	-17.3	-7.6	+1.0	+6.1	+14.2	**+18.9**	+18.5	+14.9	+11.4	+10.0	+8.9	+8.7
May ...	-0.5	-3.0	-2.1	-0.3	-2.3	-5.4	-9.0	-14.6	-21.7	-25.5	**-27.8**	-21.0	-11.4	+0.3	+4.9	+12.5	+22.3	**+27.4**	+25.7	+21.6	+12.3	+7.1	+6.0	+4.5
June ...	-0.5	-2.5	-0.7	-6.3	-4.5	-6.7	-9.8	-17.4	-25.8	-29.8	**-30.4**	-22.1	-11.7	-5.3	+7.7	+16.1	+26.1	+32.0	**+33.2**	+28.4	+20.6	+9.0	-0.6	+1.0
July ...	+0.7	+2.5	+2.5	+2.3	+2.3	-2.2	-9.7	-18.1	-25.9	-30.9	**-32.7**	-27.0	-14.4	-3.3	+6.5	+17.0	+24.5	+23.7	**+25.3**	+22.8	+18.0	+10.4	+5.4	+0.3
Aug. ...	-2.2	0.0	-0.3	-3.1	-0.2	-1.4	-8.6	-13.7	-20.4	-22.5	**-26.2**	-21.0	-7.9	+5.5	+11.0	+14.9	+17.2	+19.3	**+20.4**	+17.8	+13.1	+5.9	+2.5	-0.1
Sept. ...	-10.1	-8.3	-11.4	-2.1	+3.2	+5.8	+1.3	-8.8	-18.3	**-21.7**	-21.3	-15.3	-5.7	+3.5	+8.0	+11.9	+16.2	**+19.6**	+18.3	+16.5	+12.6	+9.2	+2.9	-6.0
Oct. ...	-11.9	-9.8	-7.0	-2.4	-0.8	+6.2	+4.2	-3.6	-10.4	-14.1	-13.1	-9.9	-0.3	+12.2	+24.8	+22.3	+22.4	**+24.9**	+9.7	+0.5	-9.4	-8.4	-10.2	-15.9
Nov. ...	-4.8	-7.7	-3.7	-0.7	+5.2	**+8.0**	+6.4	+3.1	-4.2	-8.0	**-10.2**	-7.2	-3.2	-0.3	+6.4	+5.4	+6.8	+6.1	+4.2	+5.3	+0.5	-1.2	-3.9	-2.3
Dec. ...	**-6.7**	-5.0	-4.2	-2.3	+2.7	+5.2	+6.2	+3.0	-0.4	-2.3	-4.9	-6.0	-2.9	-0.1	+1.9	+2.0	+2.7	+4.2	+6.9	**+7.0**	+1.7	-1.4	-1.4	-5.9
Year ...	-3.5	-3.2	-2.2	-1.0	+1.4	+2.2	-0.5	-6.4	-13.5	-17.1	**-19.0**	-15.6	-7.9	-0.1	+6.5	+10.3	+14.1	**+16.8**	+15.8	+13.0	+7.5	+3.6	+0.6	-2.0
Winter ...	**-6.1**	-5.7	-3.6	-1.7	+2.6	+5.2	+5.1	+2.2	-2.5	-4.2	-6.1	-5.6	-2.7	+0.1	+3.0	+4.0	+5.0	+6.5	**+6.9**	+5.7	+1.1	-1.5	-3.1	-4.9
Equinox ...	-3.9	-3.0	-2.7	+0.6	+2.9	+5.4	+2.6	-5.5	-14.7	-19.9	**-21.6**	-18.5	-9.6	+0.3	+8.9	+11.9	+14.9	**+18.4**	+14.4	+10.7	+5.3	+4.1	+1.5	-2.4
Summer ...	-0.6	-0.7	-0.1	-1.9	-1.2	-3.9	-9.3	-15.9	-23.5	-27.2	**-29.3**	-22.8	-11.3	-0.7	+7.5	+15.1	+22.5	+25.6	**+26.1**	+22.7	+16.0	+8.1	+3.3	+1.4

DECLINATION (*all days*).

54. Lerwick. **1931.**

Month and Season.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
Jan. ...	-1.69	-1.00	-1.11	-1.11	-0.53	-0.33	+0.10	+0.65	+1.11	+1.87	+2.29	+2.55	**+2.60**	+2.05	+1.29	+0.88	+0.94	-0.15	-1.05	-1.43	-1.50	**-2.56**	-2.45	-1.4
Feb. ...	-1.92	-1.90	-2.24	-1.76	-1.57	-1.10	-1.12	-0.53	-0.18	+0.59	+2.02	+2.97	+3.87	**+3.96**	+3.23	+2.87	+1.58	+1.04	+0.45	-0.28	-1.55	**-3.55**	-2.51	-2.3
Mar. ...	-1.46	-1.89	-2.39	-1.79	-20.3	-2.32	-2.57	**-2.58**	-1.78	+0.06	+2.43	+4.82	**+5.95**	+5.67	+4.29	+2.71	+1.03	+0.58	-0.53	-0.73	-1.64	-1.86	-1.77	-2.2
April ...	-1.23	-1.59	-2.17	-2.85	-3.41	-3.64	**-3.91**	-3.57	-2.68	-0.50	+1.95	+4.24	**+5.99**	+5.82	+4.56	+3.33	+2.18	+1.19	+0.40	-0.20	-0.77	-0.92	-1.09	-1.1
May ...	-1.40	-1.06	-1.86	-3.03	-3.94	**-5.16**	-5.08	-4.34	-2.42	+0.09	+2.96	+5.11	**+6.11**	+5.73	+4.60	+3.25	+2.29	+1.66	+0.93	+0.02	-0.45	-1.01	-1.31	-1.6
June ...	-2.23	-2.41	-3.12	-3.84	-4.17	-5.20	**-5.23**	-4.45	-3.37	-0.69	+1.79	+4.25	+5.73	**+5.97**	+5.36	+4.59	+3.61	+2.84	+1.82	+1.13	+0.29	-0.21	-1.25	-1.21
July ...	-1.65	-2.65	-2.93	-3.66	-4.58	**-5.45**	-5.43	-4.73	-3.13	-0.83	+1.90	+4.89	+6.37	**+6.38**	+5.45	+4.21	+2.73	+1.85	+1.40	+0.67	+0.46	-0.08	-0.29	-0.90
Aug. ...	-1.80	-2.29	-2.77	-2.77	-3.26	**-3.91**	-3.16	-2.82	-2.16	-0.19	+2.53	+4.90	**+6.19**	+6.08	+4.32	+2.72	+1.67	+0.81	+0.39	-0.52	-0.45	-0.94	-1.25	-1.32
Sept. ...	-1.27	**-2.90**	-2.54	-2.37	-1.90	-2.59	-2.48	-2.09	-0.91	+1.04	+3.55	+5.51	**+6.43**	+5.84	+4.73	+2.96	+1.49	-0.33	-1.83	-1.43	-2.71	-2.37	-2.46	-1.37
Oct. ...	-1.88	-1.72	-1.91	-1.05	+0.07	+0.14	-0.27	-0.10	+0.08	+1.07	+3.12	+4.78	+4.84	**+5.09**	+3.58	+1.99	+0.11	-1.36	-2.44	-3.04	-3.61	**-3.64**	-2.38	-1.47
Nov. ...	-0.75	-0.37	-0.71	-0.56	+0.05	+0.61	+0.81	+0.38	+0.28	+1.21	+2.66	+3.64	+3.66	**+4.13**	+2.07	+2.21	-0.88	-1.89	-1.54	-3.14	-3.49	**-3.83**	-2.40	-2.15
Dec. ...	-1.02	-0.49	-0.52	-0.39	+0.39	+0.12	+0.68	+0.90	+1.24	+1.63	+2.32	+2.61	**+2.83**	+2.82	+1.68	+1.14	+1.65	+0.50	-1.40	-3.20	-3.74	**-4.00**	-3.48	-2.27
Year ...	-1.53	-1.69	-2.02	-2.10	-2.07	**-2.40**	-2.31	-1.94	-1.16	+0.45	+2.46	+4.19	**+5.06**	+4.96	+3.77	+2.74	+1.53	+0.56	-0.28	-1.01	-1.59	-2.08	-1.89	-1.63
Winter ...	-1.35	-0.94	-1.15	-0.95	-0.41	-0.17	+0.12	+0.35	+0.61	+1.33	+2.32	+2.94	**+3.24**	**+3.24**	+2.07	+1.77	+0.82	-0.13	-0.89	-2.01	-2.57	**-3.49**	-2.71	-2.05
Equinox ...	-1.46	-2.03	-2.25	-2.01	-1.82	-2.10	**-2.31**	-2.09	-1.32	+0.42	+2.76	+4.84	**+5.80**	+5.61	+4.29	+2.75	+1.20	+0.02	-1.10	-1.35	-2.18	-2.20	-1.93	-1.54
Summer ...	-1.77	-2.10	-2.67	-3.33	-3.99	**-4.93**	-4.73	-4.09	-2.77	-0.41	+2.29	+4.79	**+6.10**	+6.04	+4.93	+3.69	+2.57	+1.79	+1.13	+0.33	-0.04	-0.56	-1.03	-1.28

VERTICAL FORCE (*all days except Oct.* 25).

55. Lerwick. **1931.**

Month and Season.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan. ...	-6.7	-6.6	**-7.4**	-5.9	-6.7	-7.1	-6.5	-6.2	-4.9	-2.5	-0.1	+0.9	+0.9	+3.7	+7.2	**+9.3**	+8.9	+8.9	+8.8	+7.3	+5.6	+4.6	+1.7	-7.2
Feb. ...	**-16.9**	-13.8	-11.7	-8.1	-8.7	-11.4	-10.6	-7.5	-5.5	-2.2	-0.8	+0.6	+1.7	+4.5	+9.2	+16.9	+20.1	**+22.1**	+18.3	+14.0	+9.2	-2.5	-5.1	-11.8
Mar. ...	**-20.2**	-15.7	-9.2	-6.9	-10.4	-7.1	-4.3	-1.0	+0.5	+1.6	+1.2	+1.6	+3.1	+6.1	+9.4	+11.8	**+14.9**	+14.1	+14.1	+12.7	+8.0	-0.6	-9.4	-14.3
April ...	**-10.8**	-8.9	-7.7	-8.0	-5.8	-2.4	-0.6	-0.5	-1.0	+1.9	+1.0	-2.0	-3.5	-0.4	+3.2	+6.8	+9.7	+11.8	**+14.2**	+11.5	+6.2	+0.4	-5.0	-10.1
May ...	-6.7	-8.7	-13.0	**-14.7**	-11.2	-4.6	-2.9	-3.1	-3.8	-2.8	-2.2	-4.1	-2.0	+2.6	+7.5	+9.4	+12.0	+14.5	**+16.6**	+15.2	+9.9	-0.2	-2.6	-5.1
June ...	**-16.3**	-14.4	-14.0	-10.3	-6.6	-3.5	-0.5	+0.3	-0.3	-1.2	-3.4	-3.2	-2.5	+0.8	+4.4	+12.1	+16.6	**+17.7**	+17.4	+16.4	+12.4	+3.5	-10.2	-15.6
July ...	-14.6	-10.5	-7.7	-4.3	-3.5	-1.8	-0.8	-1.8	-1.9	-1.0	-3.0	-3.9	-3.5	+1.0	+3.8	+10.0	+14.8	**+15.5**	+14.1	+11.9	+7.7	+1.0	-6.1	**-15.4**
Aug. ...	-26.0	-18.1	-14.7	-13.6	-12.5	-8.7	-5.4	-4.0	-2.5	-1.0	-1.4	-1.9	+0.7	+7.2	+17.9	+21.5	+22.5	+23.0	+21.4	+17.8	+9.7	-3.8	-11.3	-16.8
Sept. ...	**-45.1**	-42.2	-43.0	-34.5	-21.4	-10.0	-2.3	+3.4	+5.5	+7.6	+7.3	+7.8	+11.4	+17.7	+25.8	+29.7	+29.9	**+31.8**	+30.3	+24.5	+16.1	-0.8	-16.6	-32.9
Oct. ...	**-50.1**	-39.0	-30.3	-28.5	-24.5	-15.9	-5.7	+2.9	+6.7	+10.6	+12.8	+18.7	+25.2	+28.4	+34.9	+33.1	**+47.3**	+46.4	+28.2	+11.6	-6.9	-21.6	-37.5	-46.8
Nov. ...	**-22.9**	-20.4	-21.4	-17.0	-16.8	-14.5	-11.4	-7.1	-3.9	-1.6	+0.3	+3.4	+10.2	+15.3	+25.4	+27.1	**+32.0**	+28.8	+24.5	+16.3	+3.6	-10.1	-18.2	-21.6
Dec. ...	**-19.5**	-18.6	-15.7	-13.2	-13.0	-11.5	-7.8	-4.8	-3.5	-1.3	+0.3	+2.6	+6.2	+10.0	+16.9	+20.1	+18.6	**+23.2**	+19.8	+13.3	+3.4	-2.6	-9.7	-13.2
Year ...	**-21.3**	-18.1	-16.3	-13.7	-11.8	-8.2	-4.9	-2.5	-1.2	+0.7	+1.0	+1.7	+4.0	+8.1	+13.8	+17.3	+20.6	**+21.5**	+19.0	+14.4	+7.1	-2.7	-10.8	-17.6
Winter ...	**-16.5**	-14.9	-14.1	-11.1	-11.3	-11.1	-9.1	-6.4	-4.5	-1.9	-0.1	+1.9	+4.7	+8.4	+14.7	+18.3	+19.9	**+20.7**	+17.9	+12.7	+5.5	-2.7	-7.8	-13.5
Equinox ...	**-31.5**	-26.5	-22.5	-19.5	-15.5	-8.9	-3.2	+1.2	+2.9	+5.4	+5.6	+6.5	+9.1	+12.9	+18.3	+20.3	+25.5	**+26.0**	+21.7	+15.1	+5.9	-5.7	-17.1	-26.0
Summer ...	**-15.9**	-12.9	-12.3	-10.7	-8.5	-4.7	-2.4	-2.1	-2.1	-1.5	-2.5	-3.3	-1.7	+2.9	+8.4	+13.3	+16.5	**+17.7**	+17.4	+15.5	+9.9	+0.1	-7.5	-13.2

Departures from mean of the day adjusted for non-cyclic change.

HORIZONTAL FORCE (QUIET DAYS).

56. Lerwick. 1931.

Month and Season.	Hour. 1.	G.M.T. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan. ...	− **3·6**	− 2·3	− 3·0	− 0·9	+ 0·9	+ **3·6**	+ 2·3	+ 0·7	− 0·3	− 0·1	− 0·2	0·0	+ 0·4	+ 1·1	+ 0·7	+ 0·3	+ 0·9	+ 2·0	+ 2·7	+ 1·9	− 0·2	− 1·9	− 2·2	− 2·8
Feb. ...	+ 1·3	− 0·9	− 2·0	+ 0·8	+ 0·8	+ 1·7	+ 1·5	+ 0·5	− 2·1	− 5·9	− **6·0**	− 5·2	− 3·0	− 0·9	+ 1·1	+ 2·1	+ 2·9	+ 2·9	+ **4·0**	+ 3·4	+ 1·6	+ 0·1	− 0·1	+ 1·4
Mar. ...	+ 7·1	+ 6·2	+ 6·1	+ 7·1	+ 7·6	+ 8·2	+ 4·8	+ 0·1	−11·4	−20·0	−**24·9**	−24·4	−19·7	−10·2	− 0·8	+ 3·1	+ 4·8	+ 7·4	+ 8·0	+ 7·5	+ 7·9	+ 8·4	+ 8·5	+ **8·6**
April ...	+ 8·4	+ 7·3	+ 6·4	+ 5·9	+ 5·0	+ 4·4	+ 0·9	− 6·4	−16·3	−22·8	−**25·7**	−25·5	−19·9	−11·6	− 3·3	− 0·6	+ 6·1	+12·2	+**14·6**	+13·5	+12·4	+11·9	+12·2	+10·9
May ...	+ 7·5	+ 5·9	+ 3·8	+ 3·6	+ 2·7	− 0·4	− 7·8	−16·2	−24·7	−28·3	−**28·6**	−21·0	−10·6	− 1·7	+ 6·5	+11·0	+14·2	+15·8	+**16·3**	+14·2	+11·0	+ 9·3	+ 9·3	+ 8·2
June ...	+ 3·1	+ 2·4	+ 3·1	+ 1·5	− 1·9	− 4·4	− 9·1	−16·6	−23·0	−24·6	−**25·6**	−21·9	−11·0	− 5·8	+ 0·6	+11·2	+15·5	+18·2	+19·5	+**21·1**	+17·7	+12·2	+ 9·1	+ 8·7
July ...	+ 2·5	+ 3·2	+ 5·3	+ 5·2	+ 5·7	− 0·2	− 6·1	−13·8	−20·9	−26·0	−**28·1**	−25·6	−19·1	− 8·2	− 2·7	+ 9·6	+15·1	+18·8	+**21·5**	+20·0	+18·5	+12·4	+ 7·9	+ 5·0
Aug. ...	+ 4·4	+ 4·5	+ 4·8	+ 4·6	+ 4·0	+ 0·5	− 6·0	−12·2	−19·7	−27·5	−**29·8**	−23·1	−12·8	− 0·9	+ 6·3	+10·2	+12·6	+13·7	+13·4	+**14·0**	+12·4	+ 9·1	+ 9·4	+ 8·1
Sept. ...	+ 6·0	+ 4·8	+ 3·7	+ 3·7	+ 5·0	+ 4·9	+ 2·3	− 3·6	−11·8	−18·5	−**24·1**	−20·5	−14·1	− 8·5	− 0·8	+ 2·0	+ 5·3	+ 8·5	+ 9·6	+**11·7**	+ 9·5	+ 9·6	+ 8·4	+ 6·9
Oct. ...	+ 0·4	+ 1·1	− 0·5	+ 1·7	+ 5·7	+ 6·1	+ 4·4	− 1·6	− 9·9	−13·6	−**15·3**	−15·0	−10·0	− 4·3	− 1·7	+ 1·3	+ 1·1	+ 3·1	+ 7·8	+ 9·0	+ 8·5	+ **9·8**	+ 8·1	+ 3·8
Nov. ...	− 3·2	− 1·9	− 1·0	+ 0·1	+ 3·9	+ 4·2	+ 1·5	+ 2·7	− 1·9	− 3·7	− 6·8	− **9·0**	− 8·0	− 5·3	− 2·3	+ 1·5	+ 2·1	+ 3·8	+ 5·1	+ **5·7**	+ 4·0	+ 4·9	+ 2·2	+ 1·4
Dec. ...	− 3·1	− **4·4**	− 3·2	− 2·2	+ 0·7	+ 2·7	+ 2·9	+ 2·8	+ 1·6	+ 1·2	− 1·9	− 2·1	− 3·1	− 1·0	+ 0·4	+ 3·0	+ **3·7**	+ 2·9	+ 2·1	+ 1·6	− 0·6	+ 0·4	− 1·5	− 2·9
Year ...	+ 2·6	+ 2·2	+ 2·0	+ 2·6	+ 3·3	+ 2·6	− 0·7	− 5·3	−11·7	−15·8	−**18·1**	−16·1	−10·9	− 4·9	+ 0·3	+ 4·6	+ 7·1	+ 9·1	+**10·4**	+10·3	+ 8·6	+ 7·2	+ 5·9	+ 4·8
Winter ...	− 2·1	− 2·4	− 2·3	− 0·5	+ 1·6	+ 3·1	+ 2·1	+ 1·7	− 0·7	− 2·1	− 3·7	− **4·1**	− 3·4	− 1·5	0·0	+ 1·7	+ 2·4	+ 2·9	+ **3·5**	+ 3·1	+ 1·2	+ 0·9	− 0·4	− 0·7
Equinox ...	+ 5·5	+ 4·9	+ 3·9	+ 4·6	+ 5·8	+ 5·9	+ 3·1	− 2·9	−12·3	−18·7	−**22·5**	−21·3	−15·9	− 8·7	− 1·7	+ 1·5	+ 4·3	+ 7·8	+10·0	+**10·4**	+ 9·6	+ 9·9	+ 9·3	+ 7·5
Summer ...	+ 4·4	+ 4·0	+ 4·3	+ 3·7	+ 2·6	− 1·1	− 7·3	−14·7	−22·1	−26·6	−**28·0**	−22·9	−13·4	− 4·1	+ 2·7	+10·5	+14·3	+16·6	+**17·7**	+17·3	+14·9	+10·7	+ 8·9	+ 7·5

DECLINATION (QUIET DAYS).

57. Lerwick. 1931.

Month and Season.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
Jan. ...	−0·60	−0·18	−0·23	−0·22	−0·48	−0·68	−0·42	−0·46	−0·27	+0·64	+1·12	+1·26	+**1·34**	+0·98	+0·47	+0·40	+0·20	0·00	−0·14	−0·38	−0·53	−0·46	−**0·68**	−**0·68**
Feb. ...	−1·14	−**2·06**	−1·90	−1·42	−1·68	−1·68	−1·38	−1·10	−0·36	+0·14	+1·46	+2·28	+2·92	+**3·14**	+2·46	+1·60	+1·12	+0·74	+0·36	+0·26	−0·46	−1·14	−0·84	−1·32
Mar. ...	−0·19	−0·27	−0·43	−0·89	−1·21	−1·99	−2·79	−**3·01**	−2·28	−0·38	+1·97	+4·35	+**5·27**	+4·56	+3·04	+1·05	−0·37	−0·51	−1·19	−1·21	−1·07	−0·97	−0·57	−0·91
April ...	−0·31	−0·64	−1·11	−1·69	−2·20	−2·69	−3·72	−**4·15**	−2·93	−1·16	+0·99	+3·15	+**4·69**	+4·40	+3·21	+1·91	+1·20	+0·57	+0·30	+0·13	+0·25	−0·06	−0·05	−0·09
May ...	+0·19	−0·26	−1·33	−2·83	−4·31	−5·26	−**5·63**	−5·23	−3·60	−0·48	+2·47	+4·40	+**5·31**	+4·76	+3·68	+2·21	+1·23	+1·02	+0·91	+0·95	+1·01	+0·50	+0·11	+0·18
June ...	−1·72	−1·96	−2·74	−3·91	−4·01	−4·79	−**4·82**	−4·54	−3·41	−1·22	+1·83	+3·82	+5·27	+**5·62**	+4·39	+3·26	+2·80	+2·49	+2·01	+1·37	+0·72	+0·42	+0·14	−1·02
July ...	−1·23	−1·66	−2·28	−3·08	−3·71	−4·96	−**5·65**	−5·59	−4·49	−1·84	+1·92	+4·60	+5·30	+**5·66**	+4·97	+3·65	+2·35	+1·74	+1·33	+1·42	+1·10	+0·76	+0·23	−0·54
Aug. ...	−0·89	−0·82	−1·96	−2·38	−3·62	−**4·70**	−4·25	−4·20	−2·77	−0·40	+1·92	+4·56	+**6·06**	+6·04	+4·67	+2·70	+1·45	+0·58	+0·28	−0·06	+0·14	−0·50	−0·21	−1·64
Sept. ...	−1·88	−1·97	−1·58	−1·54	−1·68	−2·40	−3·01	−**3·46**	−2·73	−0·54	+1·87	+3·81	+**4·87**	+4·30	+3·67	+2·90	+2·27	+1·92	+0·30	−0·72	−0·42	−1·43	−1·44	−1·11
Oct. ...	−1·42	−0·46	−1·10	−1·45	−1·70	−1·69	−1·85	−2·53	−2·25	−0·61	+2·19	+4·44	+**4·77**	+4·13	+2·93	+1·89	+1·25	+0·75	+0·24	−0·19	−1·26	−1·88	−**2·30**	−1·90
Nov. ...	−1·62	−0·46	−0·77	−0·29	−0·36	−0·13	−0·13	−0·30	−0·56	+0·43	+1·61	+2·13	+**2·79**	+2·59	+1·56	+1·52	+0·79	−0·73	−0·26	−0·91	−1·51	−**1·84**	−1·78	−1·77
Dec. ...	−0·80	−0·50	−0·01	−0·15	−0·24	−0·20	−0·38	−0·61	−0·56	+0·19	+0·63	+1·30	+1·99	+**2·09**	+1·62	+0·81	+0·50	+0·18	−0·14	−0·49	−1·05	−**2·09**	−1·31	−0·78
Year ...	−0·97	−0·94	−1·29	−1·65	−2·10	−2·60	−2·84	−**2·93**	−2·18	−0·44	+1·67	+3·34	+**4·21**	+4·02	+3·06	+1·99	+1·23	+0·73	+0·33	+0·01	−0·26	−0·72	−0·73	−0·97
Winter ...	−1·04	−0·80	−0·73	−0·52	−0·69	−0·67	−0·58	−0·62	−0·44	+0·35	+1·21	+1·74	+**2·26**	+2·20	+1·53	+1·08	+0·65	+0·05	−0·05	−0·38	−0·89	−**1·38**	−1·15	−1·14
Equinox ...	−0·95	−0·83	−1·05	−1·39	−1·70	−2·19	−2·84	−**3·29**	−2·55	−0·67	+1·75	+3·94	+**4·90**	+4·35	+3·21	+1·94	+1·09	+0·68	−0·09	−0·50	−0·63	−1·09	−1·09	−1·00
Summer ...	−0·91	−1·17	−2·08	−3·05	−3·91	−4·93	−**5·09**	−4·89	−3·57	−0·99	+2·03	+4·35	+5·49	+**5·52**	+4·43	+2·95	+1·96	+1·46	+1·13	+0·92	+0·74	+0·29	+0·07	−0·75

VERTICAL FORCE (QUIET DAYS except Oct. 25).

58. Lerwick. 1931.

Month and Season.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan. ...	+ 0·5	− 0·5	+ 0·1	− 0·8	− 0·7	− 2·3	− 2·3	− 3·4	− **3·9**	− 1·9	− 1·3	− 0·1	+ 0·5	+ 0·5	+ 1·5	+ 2·6	+ **2·9**	+ 2·7	+ 1·9	+ 0·8	+ 0·7	+ 1·3	+ 1·1	+ 0·1
Feb. ...	− 4·9	− **5·5**	− 3·2	− 3·1	− 1·6	− 2·1	− 3·1	− 3·5	− 3·7	− 1·9	− 1·8	− 1·7	− 2·0	− 1·3	+ 0·7	+ 3·7	+ 4·3	+ 5·1	+ 5·4	+ 5·5	+ **6·6**	+ 6·1	+ 3·7	− 1·7
Mar. ...	− **3·0**	− 2·0	− 1·5	− 0·8	− 0·9	− 1·4	− 0·6	− 0·6	− 0·6	− 1·2	− 1·1	− 2·2	− 2·5	− 0·8	+ 1·2	+ 3·6	+ 4·0	+ 3·2	+ 4·5	+ **4·6**	+ 2·7	0·0	− 1·8	− 2·8
April ...	+ 0·2	+ 0·6	+ 1·3	+ 1·2	+ 0·8	+ 0·7	+ 1·1	+ 0·2	− 0·6	+ 0·9	− 0·7	− 4·7	− **6·5**	− 3·5	− 0·2	+ 3·8	+ **4·1**	+ 2·9	+ 1·4	+ 1·8	+ 1·5	− 1·8	− 3·4	− 1·1
May ...	0·0	− 0·6	+ 1·3	+ 2·4	+ **3·6**	+ 3·3	+ 3·2	+ 1·2	− 1·1	− 1·8	− 4·6	− **7·1**	− 6·6	− 5·0	− 3·1	− 1·6	− 0·2	+ 0·9	+ 1·8	+ 3·2	+ 3·1	+ 3·2	+ 2·8	+ 1·7
June ...	− 1·5	+ 2·0	+ 3·5	+ 4·7	+ **6·5**	+ 3·6	+ 2·7	+ 1·1	− 3·1	− 4·2	− 7·9	−**10·3**	− 7·5	− 6·2	− 5·5	− 1·1	+ 4·9	+ 5·6	+ 5·1	+ 4·1	+ 4·9	+ 2·8	− 0·5	− 3·7
July ...	− 2·0	− 1·1	− 1·3	+ 1·1	+ 1·2	+ 2·4	+ 0·5	− 0·8	− 3·0	− 2·0	− 6·1	− 7·3	− **8·6**	− 8·1	− 1·0	+ 3·1	+ 5·6	+ **6·8**	+ 6·3	+ 6·6	+ 5·5	+ 6·2	+ 0·3	− 4·3
Aug. ...	− 3·9	− 1·9	+ 1·1	+ 4·9	+ 5·5	+ 6·3	+ 6·5	+ 4·7	− 1·1	− 3·9	− 8·9	−**12·7**	−11·9	− 6·9	− 0·1	+ 4·7	+ 7·7	+ **8·7**	+ 6·9	+ 5·5	+ 2·5	− 0·1	− 4·7	− 8·9
Sept. ...	− 6·6	− 2·7	− 0·5	+ 0·2	+ 1·2	+ 2·4	+ 4·0	+ 4·0	+ 3·1	+ 2·7	− 0·2	− 3·5	− 6·0	− 3·5	− 0·3	+ 2·4	+ 3·2	+ 4·8	+ **7·6**	+ 3·0	+ 2·1	− 1·3	− 4·6	−**11·5**
Oct. ...	−11·8	− 8·8	− 2·1	− 6·1	− 7·5	− 7·8	− 5·5	− 1·2	+ 0·6	+ 3·2	+ 2·3	+ 2·6	+ 7·4	+ 9·6	+12·8	+**14·1**	+13·5	+11·8	+ 4·0	+ 0·9	− 1·1	− 3·7	−11·6	−**15·6**
Nov. ...	− 0·5	+ 3·3	+ 2·0	+ 1·3	− 0·7	− 1·7	− 2·3	− 2·5	− 3·6	− 6·7	− **8·1**	− 6·6	− 5·3	− 1·3	+ 2·0	+ 7·3	+**11·1**	+10·9	+ 8·9	+ 4·3	+ 2·2	− 1·7	− 4·5	− 7·8
Dec. ...	+ 0·4	+ 1·7	+ 1·0	+ 0·4	− 0·9	− 1·8	− 1·9	− 2·4	− **2·8**	− 1·9	− 1·6	− 1·0	− 1·0	+ 0·9	+ 1·6	+ 1·4	+ 1·5	+ 1·2	+ 1·3	+ 1·0	+ **1·8**	+ 0·7	− 0·4	+ 0·8
Year ...	− 2·8	− 1·3	+ 0·1	+ 0·5	+ 0·5	+ 0·1	+ 0·2	− 0·3	− 1·7	− 1·6	− 3·3	− 4·5	− 4·2	− 2·1	+ 0·8	+ 3·7	+ 5·2	+ **5·4**	+ 4·6	+ 3·4	+ 2·7	+ 1·0	− 2·0	− **4·6**
Winter ...	− 1·1	− 0·3	0·0	− 0·5	− 1·0	− 2·0	− 2·4	− 2·9	− **3·5**	− 3·1	− 3·2	− 2·3	− 1·9	− 0·3	+ 1·5	+ 3·7	+ 4·9	+ **5·0**	+ 4·4	+ 2·9	+ 2·8	+ 1·6	0·0	− 2·1
Equinox ...	− 5·3	− 3·2	− 0·7	− 1·4	− 1·6	− 1·5	− 0·3	+ 0·6	+ 0·6	+ 1·4	+ 0·1	− 1·9	− 1·9	+ 0·5	+ 3·4	+ 6·0	+ **6·2**	+ 5·7	+ 4·4	+ 2·6	+ 1·3	− 1·7	− 5·3	− **7·7**
Summer ...	− 1·9	− 0·4	+ 1·1	+ 3·3	+ 4·2	+ 3·9	+ 3·2	+ 1·5	− 2·1	− 3·0	− 6·9	− **9·3**	− 8·7	− 6·5	− 2·4	+ 1·3	+ 4·5	+ **5·5**	+ 5·0	+ 4·9	+ 4·0	+ 3·0	− 0·5	− 3·8

DIURNAL INEQUALITIES OF THE TERRESTRIAL MAGNETIC ELEMENTS—SELECTED DISTURBED DAYS.

Departures from mean of the day adjusted for non-cyclic change.

HORIZONTAL FORCE (DISTURBED DAYS).

59. Lerwick. 1931.

Month and Season.	Hour. 1.	G.M.T. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	− **11·1**	− **11·1**	− 4·7	+ 1·6	+ 4·5	+ 6·2	+ 6·4	+ 3·6	−10·6	− 5·0	− 6·0	− 5·9	− 0·6	+ 7·8	+ 3·0	+ 3·2	+ 5·4	+ **13·4**	+ 7·5	+ 7·0	− 0·9	− 1·5	− 6·3	− 5·9
Feb.	− 22·0	− **34·9**	− 26·2	− 29·0	−19·9	−15·7	− 9·3	−11·0	−15·7	−11·7	−15·0	−12·1	− 8·2	− 1·3	+ 10·9	+ 36·4	+ 38·9	+ 62·7	+ **71·7**	+42·6	+14·2	− 4·5	− 12·6	− 28·3
Mar.	− **19·9**	− 4·1	+ 6·1	+ 5·9	+ 9·3	+ 8·3	+ 5·3	+ 4·3	− 8·7	−14·9	−19·3	−19·7	−14·3	+ 0·9	+ 6·3	+ 12·1	+ 8·5	+ 16·3	+ **20·3**	+18·1	− 1·3	− 9·3	− 2·5	− 7·7
April	− 0·9	+ 0·2	− 6·0	− 1·8	+ 3·9	+ 4·9	+ 1·1	−13·8	−25·2	−32·4	−**34·3**	−24·7	−12·7	+ 3·2	+ 16·0	+ 20·2	+ 27·3	+ **31·5**	+ 26·9	+15·6	+ 6·2	+ 1·4	− 3·3	− 1·1
May	− 21·5	− 23·4	− 13·7	− 9·1	− 9·7	− 6·0	− 5·1	−17·3	−22·8	−22·8	−**29·9**	−25·4	− 8·9	+ 6·8	+ 4·2	+ 17·9	+ 31·7	+ **43·2**	+ 41·9	+39·3	+17·7	+ 5·8	+ 6·5	+ 0·6
June	− 11·5	− 23·5	− 12·4	− **42·9**	−18·8	−15·8	− 8·4	−17·0	−27·9	−37·0	−30·4	−19·8	+ 2·0	+ 2·2	+ 20·5	+ 25·8	+ 49·0	+ **54·8**	+ 51·4	+42·9	+29·0	+ 9·1	− 13·3	− 8·0
July	− 10·6	+ 1·5	+ 3·1	− 4·6	− 4·4	+ 1·0	− 8·5	−17·3	−30·2	−39·8	−**40·1**	−30·1	−15·1	+ 10·2	+ 21·6	+ 40·1	+ **51·7**	+ 36·2	+ 32·4	+20·6	+15·3	+ 5·3	− 11·8	− 26·5
Aug.	− 9·3	+ 1·1	− 6·5	− 15·2	− 7·5	− 2·7	−22·8	−16·9	−14·8	−18·2	−**32·4**	−29·0	− 4·8	+ 21·8	+ 29·8	+ **36·9**	+ 25·8	+ 29·9	+ 29·7	+21·2	+ 5·3	− 2·1	− 3·9	− 15·4
Sept.	− **46·4**	− 25·4	− 40·3	− 22·5	+ 4·0	+10·1	+ 0·7	−11·6	−29·6	−37·9	−25·7	−15·3	− 0·5	+ 19·7	+ 25·8	+ **41·4**	+ 40·9	+ 40·5	+ 27·0	+25·1	+25·5	+ 15·8	+ 2·4	− 23·7
Oct.	− 44·2	− 35·4	− 44·6	− 39·1	−40·7	−20·0	−16·7	−20·9	−24·7	−26·7	−17·8	− 6·6	+23·4	+ 77·1	+**122·3**	+112·7	+101·5	+ 94·0	+ 33·5	− 1·3	−**62·6**	− 55·4	− 52·4	− 55·4
Nov.	− 7·0	− 16·9	− 4·7	− 3·7	+ 2·8	+ 7·4	+ 8·4	+ 1·5	− 8·5	−10·5	−**17·2**	− 5·6	− 1·0	+ 3·3	+ **25·3**	+ 13·9	+ 18·8	+ 13·8	+ 9·6	+ 0·9	− 6·7	− 11·9	− 9·0	− 3·0
Dec.	− 13·8	− 7·9	− 4·0	+ 1·3	+ 1·9	+ 4·8	+13·1	+ 4·1	−10·9	− 8·3	−10·0	−**17·4**	−10·6	− 1·1	+ 3·3	− 4·5	+ 4·9	+ 12·2	+ 11·9	+**34·7**	+ 7·0	− 2·9	− 3·8	− 13·0
Year	− 18·2	− 15·0	− 12·8	− 13·3	− 6·2	− 1·5	− 3·2	− 9·4	−19·1	−22·1	−**23·2**	−17·6	− 4·3	+ 12·5	+ 24·1	+ 30·4	+ 33·7	+ **37·4**	+ 30·3	+22·3	+ 4·1	− 4·2	− 9·2	− 15·6
Winter	− 13·5	− **17·7**	− 9·9	− 7·5	− 2·7	+ 0·7	+ 4·7	+ 0·5	−11·4	− 8·9	−12·1	−10·3	− 5·1	+ 2·2	+ 10·6	+ 14·5	+ 17·0	+ **25·5**	+ 25·2	+21·3	+ 3·4	− 5·2	− 7·9	− 12·5
Eqnx.	− 27·9	− 16·2	− 21·2	− 14·4	− 5·9	+ 0·8	− 2·9	−10·5	−22·1	−**28·0**	−24·3	−16·6	− 1·0	+ 25·2	+ 42·6	+ **46·6**	+ 44·5	+ 45·6	+ 26·9	+14·4	− 8·1	− 11·9	− 13·9	− 22·0
Sumr.	− 13·2	− 11·1	− 7·4	− 17·9	−10·1	− 5·9	−11·2	−17·1	−23·9	−29·5	−**33·2**	−26·1	− 6·7	+ 10·3	+ 19·0	+ 30·2	+ 39·5	+ **41·0**	+ 38·9	+31·0	+16·8	+ 4·5	− 5·6	− 12·3

DECLINATION (DISTURBED DAYS).

60. Lerwick. 1931.

Month and Season.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
Jan.	− 2·77	− 1·95	+ 1·03	+ 0·28	+2·08	+2·34	+3·03	+4·21	+5·07	+**5·42**	+4·74	+4·76	+4·07	+ 3·05	+ 1·09	− 0·88	+ 0·18	− 4·22	− 6·05	−5·17	−4·43	− **8·20**	− 4·38	− 3·30
Feb.	− 3·38	− 2·71	− 3·07	− 3·26	−3·28	0·83	−1·80	−1·08	−0·99	−0·03	+2·08	+2·78	+6·06	+ 5·93	+ 5·61	+ **8·34**	+ 3·76	+ 3·53	+ 3·22	+0·68	−4·53	− **8·59**	− 3·80	− 4·64
Mar.	− 1·35	− 3·56	− 3·23	− 2·32	−1·85	−0·83	−0·97	−1·34	−0·59	+1·64	+4·43	+6·75	+**8·23**	+ 7·62	+ 5·45	+ 3·72	+ 2·01	+ 1·39	− 2·85	−1·96	−**5·75**	− 5·32	− 4·45	− 4·87
April	− 1·78	− 2·26	− 3·17	− 3·47	−**4·12**	−4·11	−3·67	−2·54	−2·58	+0·07	+3·59	+5·70	+**7·37**	+ 7·13	+ 6·94	+ 5·76	+ 3·13	+ 2·49	− 0·72	−2·63	−3·27	− 3·02	− 1·70	− 3·14
May	− 2·90	− 2·30	− 2·16	− 2·37	−3·45	−**7·37**	−6·88	−4·60	−1·08	+1·03	+4·73	+6·89	+7·32	+ 6·46	+ 5·52	+ 4·35	+ 3·83	+ 3·15	+ 1·04	−1·30	−2·60	− 0·75	− 2·39	− 4·17
June	− **5·64**	− 4·38	− 3·20	− 1·78	−0·13	−3·35	−4·09	−4·24	−4·00	+0·12	+2·76	+5·48	+**6·50**	+ 6·42	+ 5·72	+ 6·18	+ 3·61	+ 2·93	+ 1·85	−0·10	1·52	− 1·44	− 4·64	− 3·06
July	− 2·74	− 5·44	− 3·57	− 3·62	−3·54	−4·83	−**5·65**	−4·49	−2·10	−0·13	+2·05	+5·86	+**6·90**	+ 5·36	+ 4·88	+ 4·22	+ 2·06	+ 2·47	+ 2·07	−0·81	+0·61	− 0·35	+ 1·33	− 0·54
Aug.	− 2·75	− **4·66**	− 4·23	− 2·68	−1·91	−2·59	+1·03	+0·72	−0·77	−0·14	+2·31	+4·61	+5·81	+ **6·10**	+ 3·39	+ 0·30	+ 1·61	+ 1·33	− 0·63	−2·96	−0·93	− 1·68	− 2·27	+ 0·99
Sept.	− 1·24	− 1·53	− 1·98	+ 1·26	+1·17	−1·46	−0·89	−0·18	+1·76	+4·41	+5·38	+6·13	+**6·76**	+ 5·51	+ 6·02	+ 2·50	− 1·01	− 1·46	− 3·91	−4·82	−6·36	− **6·75**	− 5·30	− 4·01
Oct.	− 6·06	− 3·89	− 3·63	− 1·46	+2·85	+1·59	+1·52	+2·57	+2·42	+1·95	+4·49	+6·05	+6·85	+ 7·19	+ **8·04**	− 0·15	+ 0·56	− 3·41	− 7·49	−3·40	−3·55	− **7·77**	− 2·68	− 2·59
Nov.	+ 0·62	+ 1·74	− 1·11	− 0·40	+1·78	+2·26	+3·08	+1·58	+1·39	+2·84	+3·94	+5·08	+4·22	+ **5·66**	+ 2·45	+ 4·54	− 3·74	− 4·82	− 4·72	−5·54	−7·01	− **8·68**	− 3·04	− 2·12
Dec.	− 0·21	− 3·18	− 1·29	+ 0·29	+1·47	+1·42	+2·52	+3·00	+4·08	+3·49	+**4·22**	+2·95	+2·68	+ 3·07	− 1·02	+ 1·24	+ 3·14	− 1·36	− 0·31	−**7·29**	−7·15	− 7·28	− 4·21	− 0·27
Year	− 2·52	− 2·84	− 2·47	− 1·63	−0·74	−1·48	−1·06	−0·53	+0·22	+1·72	+3·73	+5·25	+**6·06**	+ 5·79	+ 4·51	+ 3·34	+ 1·59	+ 0·17	− 1·54	−2·94	−3·87	− **4·99**	− 3·13	− 2·64
Winter	− 1·43	− 1·53	− 1·11	− 0·77	+0·51	+1·30	+1·71	+1·93	+2·39	+2·93	+3·75	+3·89	+4·26	+ **4·43**	+ 2·03	+ 3·31	+ 0·83	− 1·72	− 1·97	−4·33	−5·78	− **8·19**	− 3·86	− 2·58
Eqnx.	− 2·61	− 2·81	− 3·00	− 1·50	−0·49	−1·20	−1·00	−0·37	+0·25	+2·02	+4·47	+6·16	+**7·30**	+ 6·86	+ 6·61	+ 2·96	+ 1·17	− 0·25	− 3·74	−3·20	−4·73	− **5·71**	− 3·53	− 3·65
Sumr.	− 3·51	− 4·19	− 3·29	− 2·61	−2·26	−**4·53**	−3·90	−3·15	−1·99	+0·22	+2·96	+5·71	+**6·63**	+ 6·09	+ 4·88	+ 3·76	+ 2·78	+ 2·47	+ 1·08	−1·29	−1·11	− 1·05	− 1·99	− 1·69

VERTICAL FORCE (DISTURBED DAYS).

61. Lerwick. 1931.

Month and Season.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	− 25·2	− 22·7	− 24·9	− 25·0	−25·4	−22·6	−19·5	−14·9	− 6·0	− 5·8	+ 1·7	+ 6·5	+ 9·5	+ 16·0	+ 26·6	+ **34·9**	+ 30·9	+ 30·0	+ 26·0	+18·4	+15·5	+ 6·7	− 3·8	− **26·9**
Feb.	− 41·0	− 44·1	− 48·4	− 44·5	−42·2	−**50·8**	−43·4	−30·7	−21·4	−13·9	− 8·0	− 0·5	+ 6·8	+ 18·9	+ 32·2	+ 63·3	+ 83·0	+ **94·2**	+ 77·8	+61·3	+37·6	− 19·5	− 25·4	− 41·3
Mar.	− **56·6**	− 44·8	− 15·3	− 10·8	− 7·8	− 2·5	+ 0·9	+ 4·8	+ 7·2	+ 9·3	+ 9·1	+11·3	+13·7	+ 20·5	+ **28·0**	+ 23·4	+ 25·3	+ 23·5	+ 24·0	+20·6	+13·7	− 14·2	− 41·6	− 41·7
April	− 23·4	− 26·9	− 27·4	− **31·5**	−28·9	−11·8	− 4·5	− 1·7	− 1·0	+ 3·5	+ 4·6	+ 3·3	+ 0·8	+ 3·7	+ 11·0	+ 19·7	+ 29·3	+ 36·6	+ **48·5**	+33·3	+12·4	− 3·7	− 18·8	− 27·1
May	− 22·3	− 24·6	− 48·1	− **72·5**	−58·2	−20·1	− 3·8	+ 2·9	+ 2·8	+ 6·6	+13·5	+13·0	+18·3	+ 31·4	+ 30·2	+ 24·9	+ 26·4	+ 29·5	+ **38·4**	+38·1	+18·3	− 18·0	− 11·5	− 15·2
June	− 41·6	− 56·2	− **59·7**	− 54·8	−45·0	−29·1	−12·1	+ 1·2	+ 8·2	+12·9	+ 9·9	+17·9	+18·5	+ 22·1	+ 26·4	+ 39·0	+ **46·9**	+ 44·7	+ 42·0	+38·0	+27·3	+ 12·2	− 28·6	− 40·1
July	− 53·1	− 39·3	− 32·5	− 27·3	−27·6	−24·0	−13·4	−10·3	− 6·0	− 0·3	+ 1·5	+ 3·4	+12·9	+ 29·5	+ 25·4	+ 39·5	+ **54·4**	+ 50·2	+ 41·8	+34·3	+16·9	+ 0·1	− 18·9	− **57·2**
Aug.	− **60·7**	− 34·8	− 35·3	− 34·8	−33·4	−23·9	−13·8	−13·4	− 5·5	+ 5·6	+13·5	+21·0	+24·5	+ 30·8	+ 55·9	+ **56·8**	+ 44·0	+ 37·7	+ 35·6	+25·8	− 1·9	− 30·8	− 26·1	− 36·8
Sept.	−115·9	−116·2	−**118·0**	− 84·9	−48·3	−15·2	+ 2·5	+16·7	+26·2	+31·0	+32·4	+36·1	+44·4	+ 56·0	+ 61·8	+ 73·1	+ **77·5**	+ 70·0	+ 53·5	+40·3	+22·2	− 15·6	− 47·7	− 81·9
Oct.	−102·9	− 69·8	− 72·9	− 81·4	−63·5	−39·3	−15·3	+ 3·0	+12·7	−25·4	+35·5	+49·9	+63·7	+ 75·6	+100·5	+ 79·4	+**131·1**	+124·3	+ 68·9	+18·0	−60·1	− 71·4	−**108·3**	−103·1
Nov.	− 33·2	− 42·4	− 46·1	− 36·6	−**48·7**	−42·6	−36·1	−24·0	−14·7	− 6·0	+ 0·2	+ 5·9	+24·2	+ 34·4	+ 63·9	+ 65·6	+ **81·3**	+ 61·4	+ 51·3	+32·4	−13·5	− 29·8	− 17·4	− 29·5
Dec.	− **63·8**	− 50·1	− 38·4	− 26·8	−21·6	−17·1	− 9·6	− 4·0	+ 3·6	+ 7·9	+ 8·4	+17·0	+28·0	+ 32·1	+ **51·4**	+ 47·6	+ 35·2	+ 40·1	+ 28·6	+25·0	−12·4	− 15·3	− 28·6	− 37·2
Year	− **53·3**	− 47·7	− 47·3	− 44·2	−37·5	−24·9	−14·0	− 5·9	+ 0·5	+ 6·3	+10·2	+15·4	+22·1	+ 30·9	+ 42·8	+ 47·3	+ **55·4**	+ 53·5	+ 44·7	+32·1	+ 6·3	− 16·6	− 31·4	− 44·8
Winter	− **40·8**	− 39·8	− 39·5	− 33·2	−34·5	−33·3	−27·1	−18·4	− 9·6	− 4·5	+ 0·6	+ 7·2	+17·1	+ 25·3	+ 43·5	+ 52·9	+ **57·6**	+ 56·4	+ 45·9	+34·3	+ 6·8	− 14·5	− 18·8	− 33·7
Eqnx.	− **74·7**	− 64·4	− 58·4	− 52·1	−37·1	−17·1	− 4·1	+ 5·7	+11·3	+17·3	+20·4	+25·1	+30·7	+ 38·9	+ 50·3	+ 48·9	+ **65·8**	+ 63·6	+ 48·7	+28·1	− 2·9	− 26·2	− 54·1	− 63·5
Sumr.	− 44·4	− 38·7	− 43·9	− **47·3**	−41·1	−24·3	−10·8	− 4·9	− 0·1	+ 6·2	+ 9·6	+13·8	+18·6	+ 28·5	+ 34·5	+ 40·1	+ **42·9**	+ 40·5	+ 39·5	+34·1	+15·1	− 9·1	− 21·3	− 37·3

RANGE OF MEAN DIURNAL INEQUALITIES FOR THE MONTHS, YEAR AND SEASONS OF 1930.

NOTE.—The ranges are those shown in Tables 53 to 61 in the preparation of which the non-cyclic change has been eliminated.

62. Lerwick. 1931.

Month and Season.	"All" Days.			Quiet Days.			Disturbed Days.		
	H.	D.	V.	H.	D.	V.	H.	D.	V.
	γ	′	γ	γ	′	γ	γ	′	γ
January ...	12·1	5·16	16·7	7·2	2·02	6·8	24·5	13·62	61·8
February ...	23·1	7·51	39·0	10·0	5·20	12·1	106·6	16·93	145·0
March ...	32·5	8·53	35·1	33·5	8·28	7·6	40·2	13·98	84·6
April ...	49·5	9·90	25·0	40·3	8·84	10·6	65·8	11·49	80·0
May ...	55·2	11·27	31·3	44·9	10·94	10·7	73·1	14·69	110·9
June ...	63·6	11·20	34·0	46·7	10·44	16·8	97·7	12·14	106·6
July ...	58·0	11·83	30·9	49·6	12·31	15·4	91·8	12·55	111·6
August ...	46·6	10·10	49·0	43·8	10·76	21·4	69·3	10·76	117·5
September ...	41·3	9·33	76·9	35·8	8·33	19·1	87·8	14·51	195·5
October ...	40·8	8·73	97·4	25·1	7·07	29·7	184·9	15·81	239·4
November ...	18·2	7·96	54·9	14·7	4·63	19·2	42·5	14·34	130·0
December ...	13·7	6·83	42·7	8·1	4·18	4·6	52·1	11·51	115·2
Year ...	35·8	7·46	42·8	28·5	7·14	10·0	60·6	11·05	108·7
Winter ...	13·0	6·73	37·2	7·6	3·64	8·5	43·2	12·62	98·4
Equinox ...	40·0	8·11	57·5	32·9	8·19	13·9	74·6	13·01	140·5
Summer ...	55·4	11·03	33·6	45·7	10·61	14·8	74·2	11·16	90·2

AVERAGE DEPARTURE OF THE INDIVIDUAL VALUES FROM MEAN OF THE DAY.

63. Lerwick. 1931.

Month and Season.	"All" Days.			Quiet Days.			Disturbed Days.		
	H.	D.	V.	H.	D.	V.	H.	D.	V.
	γ	′	γ	γ	′	γ	γ	′	γ
January ...	2·3	1·36	5·7	1·5	0·53	1·4	5·8	3·45	18·6
February ...	5·5	1·88	9·7	2·2	1·37	3·4	23·1	3·50	39·6
March ...	7·7	2·29	8·3	9·3	1·69	2·0	10·1	3·44	19·6
April ...	11·7	2·47	5·6	11·0	1·73	1·9	13·1	3·51	17·2
May ...	12·1	2·73	7·3	11·6	2·41	2·6	18·0	3·69	24·5
June ...	14·5	3·11	8·5	12·0	2·85	4·3	23·9	3·46	30·6
July ...	13·7	3·03	6·7	12·6	2·92	3·8	19·9	3·15	25·8
August ...	10·6	2·47	11·8	11·0	2·37	5·4	16·8	2·35	29·3
September ...	10·7	2·63	20·7	8·5	2·16	3·4	24·1	3·41	54·0
October ...	10·6	2·07	25·6	6·0	1·88	6·9	47·0	3·84	65·7
November ...	4·8	1·81	15·6	3·6	1·12	4·4	8·8	3·43	35·1
December ...	3·6	1·71	11·2	2·2	0·78	1·3	8·6	2·80	27·1
Year ...	7·7	2·14	10·8	7·0	1·72	2·4	16·2	2·70	30·6
Winter ...	4·0	1·57	10·4	2·0	0·92	2·2	10·4	2·77	29·0
Equinox ...	8·5	2·31	14·7	8·7	1·82	2·7	20·6	3·15	37·9
Summer ...	12·4	2·81	8·5	11·7	2·61	3·8	19·3	3·05	26·9

NON-CYCLIC CHANGE (24h.—0h.).

64. Lerwick. 1931.

Month.	"All" Days.			Quiet Days.			Disturbed Days.		
	H.	D.	V.	H.	D.	V.	H.	D.	V.
	γ	′	γ	γ	′	γ	γ	′	γ
January ...	+0·1	−0·15	−0·9	+1·4	0·00	−2·0	−14·2	+1·04	−27·4
February ...	−0·2	+0·05	+0·5	+3·0	+0·36	−4·2	−36·4	−2·28	−36·0
March ...	+0·7	−0·02	−0·2	+2·0	+0·30	+0·6	− 2·4	+1·04	+ 1·4
April ...	+0·7	−0·02	−0·8	+2·2	−0·12	−1·4	− 8·8	−0·10	− 4·8
May ...	+0·4	−0·05	−1·0	+6·0	+0·04	−3·2	− 5·2	−0·08	− 2·8
June ...	−0·3	−0·04	+0·4	+4·6	+0·90	0·0	− 7·8	+2·16	−20·6
July ...	−0·1	−0·04	+2·2	+2·4	+0·34	+4·4	− 3·4	−0·20	−17·2
August ...	+0·1	−0·02	−2·0	+5·2	+0·18	−2·4	+11·0	−0·08	+14·4
September ...	−0·7	−0·18	−4·6	+6·2	−0·22	+8·0	− 8·2	+1·38	+ 3·6
October ...	+0·7	+0·13	+3·7	+1·2	−0·50	+3·0	−71·6	−2·22	+47·2
November ...	+0·3	−0·02	+3·4	+1·4	+0·82	+8·0	−15·2	0·00	−23·2
December ...	−1·2	−0·17	−0·9	+0·8	−0·10	−1·2	− 0·4	−1·06	+ 4·8
Year 1931 ...	—	—	—	—	—	—	—	—	—

MEAN VALUES OF THE SQUARES OF THE ABSOLUTE DAILY RANGES.*

(Unit, $100\gamma^2$.)

65. Lerwick. 1931.

Month.	R_H^2	R_D^2	R_V^2	$R_H^2 + R_D^2$	$R_H^2 + R_D^2 + R_V^2$	Mean Character Figure.
January ...	30	63	59	93	152	0·55
February ...	148	107	221	254	476	0·68
March ...	64	75	80	139	219	0·71
April ...	54	50	54	104	158	0·50
May ...	113	58	106	171	276	0·65
June ...	154	67	120	221	341	0·73
July ...	128	49	110	177	287	0·71
August ...	96	57	152	153	306	0·71
September ...	204	109	333	313	646	1·00
October ...	530	191	635	721	1356	1·16
November ...	127	106	207	233	440	0·83
December ...	104	101	119	206	325	0·84
Year 1931 ...	146	86	183	232	415	0·76

*R_D in this Table is used to signify the range in declination converted into units of force of the component perpendicular to the magnetic meridian. *See* also p. 32.

MEAN MONTHLY AND ANNUAL VALUES OF TERRESTRIAL MAGNETIC ELEMENTS.

(All days except those noted in monthly tables).

66. Lerwick. 1931.

Month.	North Component.	West Component.	Vertical Component.	Total Force.	Declination. (West.)		Inclination (North.)		Horizontal Force.
	γ	γ	γ	γ	°	′	°	′	γ
January ...	14087	3536	46633	48843	14	5·5	72	42·1	14524
February ...	14090	3534	46623	48834	14	4·9	72	41·7	14526
March ...	14086	3529	46605	48815	14	3·9	72	41·6	14521
April ...	14091	3523	46620	48830	14	2·2	72	41·7	14525
May ...	14096	3518	46604	48816	14	0·7	72	41·1	14528
June ...	14100	3514	46595	48808	13	59·6	72	40·7	14531
July ...	14094	3508	46611	48821	13	58·6	72	41·6	14523
August ...	14088	3503	46642	48849	13	57·8	72	42·7	14517
September ...	14083	3499	46613	48820	13	57·2	72	42·5	14511
October ...	14070	3492	46618	48820	13	56·2	72	43·6	14497
November ...	14075	3486	46641	48843	13	54·6	72	43·8	14500
December ...	14079	3483	46665	48867	13	53·8	72	44·0	14504
Year 1931 ...	14086	3510	46623	48830	13	59·6	72	42·3	14517

67. Lerwick. **1931.**

Date.		Month.
		January.
2, 3, 4, 5, 6, 7, 8, 9	..	Enough cloud and moonlight to mask moderate aurora.
11	♕	Feeble glow throughout evening.
12	♕	Feeble glow throughout evening.
13	♕	Feeble glow throughout evening.
16	♕	Bright glow throughout evening.
17	♕	Very feeble glow throughout evening.
18	..	Much cloud, but aurora would probably have been seen if present.
19	♕	Moderate glow throughout evening.
20	♕	Moderate glow, 18·00–20·00.
22, 23	..	Much cloud. Aurora might have been masked.
24	..	Much cloud, but aurora would probably have been seen if present.
25	♕	Moderate glow throughout evening.
26	..	Much cloud, but aurora would have been seen if present.
27, 28	..	Enough moonlight to mask faint aurora.
29, 30	..	Enough moonlight and cloud to mask moderate aurora.
		February.
4	..	Enough moonlight and cloud to mask moderate aurora.
6	..	Fine, but bright moon after 21·00.
7	♕	Fine, feeble glow seen at 23·00.
10	..	Fine.
11	..	Much cloud. Aurora might have been masked.
12	..	Fine.
13	♕	Moderate aurora throughout evening.
15	♕	Weak glow seen throughout evening through breaks in cloud.
16	..	Cloudy at times but not enough to mask aurora.
17	..	Fine.
18	..	Fine.
19, 20	..	Cloudy, but not enough to mask aurora.
22	..	Aurora before 19.00 would have been masked.
23	..	Fine.
24	♕	Bright aurora seen through breaks in cloud.
		February (*contd.*)
25	♕	Cloudy, faint aurora seen once at 20·30.
26, 27, 28	..	Enough cloud and moonlight to mask moderate aurora.
		March.
2, 3	..	Enough moonlight to mask moderate aurora.
4, 5, 6	..	Enough moonlight and cloud to mask faint aurora.
11	♕	Moderate glow throughout evening.
12	♕	Moderate aurora throughout evening.
13	♕	Weak glow throughout evening.
14	♕	Moderate glow throughout evening.
15	..	Fine.
17, 18	..	Much cloud but aurora would probably have been seen if present.
23	♕	Weak glow 21·15–21·45.
26	..	Much cloud, but aurora would have been seen if present.
27, 28	..	Much cloud. Aurora might have been masked.
29, 30, 31	..	Enough moonlight to mask moderate aurora.
		April.
1	..	Enough moonlight and cloud to mask moderate aurora.
3	♕	Moderate aurora.
5	..	Fine.
6	..	Generally fine.
7	..	Generally cloudy, unless around 22·00.
12	..	Fine.
14	..	Cloudy, becoming fine.
16	..	Fine.
19	..	Fine.
20, 21, 22, 23, 24, 25, 26	..	Much cloud, but not enough to mask aurora.
28	..	Fine.
29, 30	..	Much cloud, but probably not enough to mask aurora.
		September.
2	..	Fine. Moonlight, but aurora would have been seen if present.
3	♕	Faint aurora throughout evening.
4	♕	Partly cloudy, faint glow seen 23·15.
		September (*contd.*)
5	♕	Moderate glow throughout evening.
6	♕	Faint glow seen through breaks in cloud.
7	..	Cloudy at times but aurora would have been seen if present.
8	♕	Faint glow 20·43 onwards.
9	..	Cloudy at times, but aurora would have been seen if present.
11	♕	Faint aurora 20·50 onwards.
12	..	Cloudy, but aurora present before 21·00 would have been seen.
13	..	One or two breaks only in cloud.
15	♕	Glow seen through breaks in cloud.
18	♕	Feeble glow seen at 22·30. Cloudy.
19	..	Cloudy, but aurora present after 21·00 would have been seen.
20	♕	Moderate aurora throughout evening.
24	..	Enough cloud and moonlight to mask moderate aurora.
		October.
1	..	Cloudy and moonlight, but aurora would have been seen if present.
2	♕	Bright aurora 19·40 to 21·00.
3	..	Fine, moonlight. Aurora would probably have been seen if present.
4	♕	Bright aurora seen through breaks in cloud throughout evening.
5	♕	Moderate aurora 19·20 onwards.
7	..	Generally fine.
9	..	Variable cloud, but not enough to mask aurora.
11	♕	Moderate aurora seen through break in cloud 22·30–22·45.
12	♕	Vigorous aurora throughout evening, largely hidden by cloud.
13	♕	Feeble glow 21·00 onwards.
15	♕	Glow seen 20·00 through solitary break in cloud.
17	♕	Bright aurora 19·30 onwards.
18	♕	Faint glow throughout evening.
19	♕	Faint glow seen at 22·30 after overcast evening.
20	..	Variable cloud, but not enough to mask aurora.
22, 23, 24, 25, 27	..	Enough cloud and moonlight to mask moderate aurora.
		October (*contd.*)
28	♕	Bright aurora seen through thin cloud 20·45.
29	♕	Fair to cloudy. Aurora seen 18·05–10.
		November.
1	..	Enough cloud and moonlight to mask moderate aurora.
3	♕	Moderate aurora seen through breaks in cloud, 20·00–23·00.
4	..	Overcast, clearing somewhat after 20·00.
5	♕	Moderate glow seen 20·00 onwards through breaks in cloud.
6	♕	Moderate glow seen at 22·00 through solitary break in cloud.
10	..	Much cloud, aurora might have escaped notice.
12	..	Cloudy, becoming clearer after 21·00.
13	♕	Faint glow visible all evening.
16, 19	..	Much cloud, aurora might have escaped notice.
21, 22, 24, 25, 27	..	Enough cloud and moonlight to mask moderate aurora.
29, 30	..	Much cloud, but aurora would probably have been seen if present.
		December.
1	♕	Moderate aurora through evening.
3	..	Aurora if present before 20·00 would have been seen.
4	♕	Faint glow seen occasionally through breaks in cloud.
5	♕	Moderate glow seen through breaks in cloud 21·00–22·00.
6	..	Fine.
7	..	Fine.
8	..	Fine.
10	..	A few breaks only in cloud, 19·00–20·00.
12	♕	Cloudy, moderate glow seen occasionally through breaks in cloud.
14, 15, 17	..	Cloudy, but aurora would probably have been seen if present.
18, 19	..	Enough moonlight to mask faint aurora.
20, 21, 23, 24	..	Enough moonlight and cloud to mask moderate aurora.
28	♕	Bright aurora 18·00–18·40, then hidden by cloud.
29	♕	Weak glow seen occasionally through breaks in cloud until 20·00.
30	♕	Weak glow seen 19·00–20·00 (cloudy).
31	..	Cloudy, but aurora would have been seen if present.

In the interests of brevity there have been omitted from the table above all dates on which the sky throughout the evening remained completely overcast and on which, therefore, no opportunity arose of determining whether or not aurora occurred. The nights on which aurora was actually seen are indicated by the symbol ♕. The nights on which aurora was not seen, despite at least an occasional interval of more or less clear sky, are indicated by the symbol .. ; in the latter case also, remarks on the weather are added to assist the reader in judging how far the fact of no observation of aurora may be taken as indicating that there was not actual aurora. A full description is available of the auroral phenomena observed.

68. Other Scottish Stations. 1931.

Date.	Month.
	January.
11	B.; H, glow through N. to N.E.; Kirkwall, arc and glow, 2·10 to 22·35.
12	H. bright glow W.S.W. through N. to E.; Kirkwall, arc and glow 00·30 to 00·50.
13	H. faint glow over N. quadrant of sky.
16	H. glow W. through N. to E.
18	H. glow visible through breaks in cloud.
19	H. glow from W. through N. to E.; Kirkwall, glow 20·20 to 21·25.
20	H. bright glow from W. to E., brightest in N.
24	H. glow from W. through N. to E.
25	H. bright glow W. through N. to N.E., also a number of bright streamers, motion rather slow; Kirkwall, arc and rays from 22·05 to 06·05 on 26th.
26	Dunnet Head, W. to N.E., 00·30 to 01·30; Wick, 02·00.
	February.
11	Kirkwall, glow 20·10 to 22·20.
13	Kirkwall, arc, band, and rays, 18·35 to 05·05 on 14th; Sanda, 20·45; West Linton.
14	Kirkwall, arc and rays 22·20 to 23·37; Hellyar Holm, 00·15 to 05·30, in N.
15	Kirkwall, arc, rays and glow, 20·23 to 22·20.
24	Dunnet Head, between 21·00 and 22·00, very bright.
25	Kirkwall, midnight.
	March.
11	Kirkwall, glow and arc 23·50 to 02·25 on 12th; G.C.
12	Kirkwall, band, rays 20·15 to 04·20, on 13th; D.; Dunnet Head between 20·00 and 21·00; Wick; G.C., very bright; Braemar; A.
13	Kirkwall, arc, band, and glow, 20·05 to 03·55 on 4th; Wick.
17	G.C.
23	Duntulm.
25	Kirkwall, band and glow 20·50 to 23·00; Wick; Rudh-Re, 22·00 to 24·00.
	April.
3	G.C. very bright.
4	D.; Duntulm.
5	Eskdalemuir.
8	Duntulm.
9	Kirkwall, arc 22·15 to 23·30; Duntulm.
16	G.C.
19	Fair Isle North, 23·00 to 23·50; Kirkwall, N.W. 22·00.
30	G.C.
	May.
	Nil.
	June.
	Nil.
	July.
3	G.C.
	August.
7	Duntulm.
23	Kirkwall, at 23·05 for 3 or 4 minutes.
24	Kirkwall, arc, band, and rays, 22·15 to 01·30 on 25th.
	September.
1	B, 22·00.
4	Dunnet Head, between 00·00 and 03·00.
13	B, 22·00.
16	Tiumpanhead, 21·30 to 23·30.
20	B, 20·20; Auskerry, 22·45. to 24·00; Sunburgh Head, 22·00 to 02·00 on 21st, N.W. to N.E.; Cantick Head, bright display 23·15 to 01·00 on 21st; Hellyar Holm; Dunnet Head, 22·00 to 02·00 on 21st, W. to N.E., very bright; Stour Head, 22·00 to 03·00 on 21st; Tiumpanhead, 20·30 to 00·00, exceptionally brilliant display.
21	Leuchars; Stornoway, very vivid.
	October.
2	G.C.; Craibstone.
3	B, 19·00.
4	Kirkwall, N. 20·00; Fair Isle North, 18·30 to 19·30.
5	B, 19·30; Kirkwall, dim, 23·00; Duntulm, 19·30, two arcs; G.C.
7	G.C.
11	Kirkwall, 23·00; Tiree.
	October (*contd.*)
12	A. arch and rays 22·00—23·00; Kirkwall, 22·00 to 24·00, brilliant; Noss Head, 20·30 to 04·00 on 13th; Hellyar Holm, 21·00 and 04·00 on 13th; Dunnet Head, 21·00; Stornoway; West Linton.
14	Tiumpanhead, 20·30 to 24·00.
17	Stornoway; Tiree.
23	G.C.
30	A. faint streamers 18·00—18·15.
	November.
3	G.C.; Duntulm. A. faint arch 21h—23h.
5	Kirkwall; D.; Duntulm; Tiree; Leuchars.
13	D.
15	Stornoway; Tiree; Tuimpanhead, 21·00 to 24·00.
16	D.
25	B, 22·45.
29	Kirkwall.
30	G.C.
	December.
4	Kirkwall, glow, arc 20·30 to 21·15.
5	G.C.
11	Kirkwall, rays, 19·20 to 20·00; D.
13	G.C.
14	Kirkwall, arc, rays, 20·40 to 20·55.
17	G.C.
22	G.C.
23	G.C.
29	Kirkwall, band and feeble glow at intervals 17·50 to 22·35.
30	Kirkwall, arc and glow, 21·30 to 01·00 on 31st. G.C.

NOTE.—For brevity, stations which figure frequently in the above Table are represented by their initials, viz., D—Deerness, B—Baltasound, A—Aberdeen, G.C.—Gordon Castle, H—Haroldswick, Shetland, where a continuous watch was kept.

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M.O. 350
(Aberdeen)

Air Ministry

METEOROLOGICAL OFFICE

THE OBSERVATORIES' YEAR BOOK 1931

Comprising the meteorological and geophysical results obtained from autographic records and eye observations at the observatories at Lerwick, Aberdeen, Eskdalemuir, Cahirciveen (Valentia Observatory), and Richmond (Kew Observatory), and the results of soundings of the upper atmosphere by means of registering balloons.

ABERDEEN

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METEOROLOGICAL COMMITTEE

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1933

ABERDEEN OBSERVATORY.

Latitude	57° 10′ N.
Longitude	2° 6′ W.
G.M.T. of Local Mean Noon	12h. 8m.

Heights in metres above Sea-Level.

Barometer	26·0*
Rain-gauge..	11·4*
Robinson Cup Anemograph	36*
Dines Tube Anemograph..	21

Heights in metres above ground.

Thermometer Bulbs, North Wall Screen	12·5
Sunshine Recorder	20·7
Robinson Cup Anemograph	23
Dines Tube Anemograph	13
Beckley Rain-gauge Rim	0·6

INTRODUCTION.

SITE

The Observatory, which was established in 1868, is housed in the top floor of the Cromwell Tower of King's College in Old Aberdeen. The College lies on a plain gradually rising from the sea from which it is distant about 1 mile (1·6 km.). There are no serious irregularities of surface in the vicinity excepting the two river valleys of the Don and the Dee. To the north at a distance of about 1 km. the Don flows eastwards to the sea; the Dee flows into the sea at a distance of about 3 km. to the south-east of the College. Between the College and the sea is a golf course covered for the most part with grass. Westwards is the High Street of the Old Town and beyond this there is another street. Further west grass pasture extends for about one kilometre. Southward are some open spaces beyond which the modern town is reached. The enclosure in which the Stevenson screen, the Beckley and check rain-gauges and the grass minimum thermometer are exposed, had its position changed in 1928 on account of the extension of the College buildings. Its position was, in previous years, about 50 metres to the north-east of the Observatory, but from the 1st June, 1928 and onwards, the site has been a new one, also to the north-east of the Observatory, but at a distance of approximately 180 metres. The height of this " station " above M.S.L. is 11·4 metres. The " North-wall " screen in which the recording thermometers are exposed is erected on the wall outside the north window of the uppermost storey of the Observatory. The nature of the soil and sub-soil is loam and sand.

Plans showing the position of the Observatory relative to the City of Aberdeen, and the general arrangement of the College Buildings, and also photographs, are given in the volume for 1928. The enclosure shown is that on the new site. A view of the old site will be found in the Introduction to *The Observatories' Year Book*, 1923.

Change of value adopted for height of Station above Mean Sea Level.—There have been one or two changes lately in the values adopted for the height of the Station above Mean Sea Level. Prior to 1st January, 1925, the value for the station level was 14·0 m., and that for the height of the barometer cistern was 26·8 m. As from

* These values differ slightly from those given in former years. See note above.

1st January, 1925, however, following a careful redetermination of these heights, the values were altered to 13·4 m. for the station level, and 26·0 for the height of the barometer cistern. The change of site of the rain-gauge enclosure, referred to above, has further altered the value for the station level to 11·4 m. as from 1st June, 1928, but the height of the barometer cistern remains as before, viz. 26·0 m.

METEOROLOGY.

The elements dealt with in the following tables are:—Atmospheric pressure, air temperature, humidity, rainfall, sunshine, wind speed and direction, earth temperature and minimum temperature on the grass, together with a diary of cloud and weather.

The instruments from which values of the above elements have been obtained and the methods of tabulating the records are described in the General Introduction to this volume. The following additional information refers especially to Aberdeen.

Pressure and Temperature.—The photo-barograph, standard Fortin barometer and thermograph are housed in the Observatory room. The pressure scale value of the photo-barogram is 1 mb. = 1·18 mm. on the paper, when the paper is at normal atmospheric humidity. In similar circumstances the time scale is 1 hour = 9·3 mm. The records of the photo-barograph are standardized by means of control readings taken from the standard barometer. Up to the end of 1928 this instrument was Fortin Standard Barometer M.O. 273, but from the 1st January, 1929, it has been replaced by Fortin Standard Barometer M.O. 1149. The N.P.L. certificate of this latter barometer shows a standard temperature varying from 286° A at 1,050 mb. to 287° A at 910 mb.; corresponding corrections have been applied to the control readings.

The recording thermometers are placed in the North-wall screen already referred to. The scale value of the wet bulb thermograph record is 1° absolute = 3·20 millimetres on the paper; for the dry bulb thermograph the scale value varies slightly with the temperature, but is approximately 1° absolute = 3·4 millimetres. The time scale is 1 hour = 9·23 millimetres. Reading of the photothermograms is done by means of glass measuring scales, the records being standardized by control readings from Standard Thermometers M.O. 1698 (dry bulb) and M.O. 1697 (wet bulb). These thermometers have corrections, varying at different parts of the scale, of between −0·1° A and +0·2° A; these corrections have been applied to the control readings. The heights of the barometer cisterns and of the bulbs of the thermometers are given at the top of the appropriate tables.

It may be here emphasized that the bulbs of the thermometers in the North-wall screen are at the considerable height of 12·5 metres above the ground, and that readings from these thermometers are exclusively used for this publication (except as noted below under *Humidity*) and for the corresponding summaries printed in the *Monthly Weather Report.**

Rainfall.—The recording instrument in use is Beckley rain-gauge No. 2 with an area of 101·1 square inches (653 cm^2.). The procedure adopted in tabulating the records is similar to that described in the General Introduction and calls for no comment. Control was by check gauge M.O. 266 during the year 1931.

Humidity.—On those occasions when the temperature of the wet bulb has been 273° A or under, the relative humidity has been obtained from the records of a hair hygrograph. This instrument is accommodated inside the new large Stevenson screen at the new site. The hygrograph is now 13·2 metres below the level of the thermograph bulbs in the North-wall screen, and in using its records an appropriate adjustment is made.

* The temperatures for Aberdeen published in the *Daily Weather Report*, and summaries from them given in the *Weekly Weather Report*, are from different thermometers, viz., those in the Stevenson Screen, with their bulbs only 1·3 metres above the ground.

Sunshine.—The sunshine recorder (Campbell-Stokes type) is exposed on the small circular tower on the Observatory roof on which the Robinson cup anemograph is erected. It is rigidly held by lead flaps soldered to the lead roof. The actual diameter of the sunshine sphere is 4·02 inches, and the focal length 2·97 inches, these figures being slightly in excess of the standard values (diameter 4·00 ±·05 inches, focal length 2·95 ±·01 inches). The exposure is excellent; the only obstruction is a flagpole to the east, of angular diameter about 1°, which may obstruct 0·1 hr. record about 7h between April and September. This loss has been allowed for, whenever practicable, in tabulating the records. In computing the percentage duration of sunshine the actual possible values for each day of the year 1931 have been employed, a procedure similar to that adopted from 1926 onwards.

Wind Speed and Direction.—As it was not possible during the year to remove the pressure-tube anemograph to a satisfactory site, the values of wind speed for 1931 are tabulated from the records of the Robinson cup-anemograph, in continuance of the practice adopted from 1st July, 1930. The cup-anemograph values are corrected for the effect of exposure in accordance with the factors given in the Table on page 12 of the General Introduction. The cup-anemograph is mounted upon the roof of the Observatory building, its cups being at a height of 23 m. above the ground, and about 7 m. above the roof of the main tower of the building.

On the few occasions when the records of the cup-anemograph have been defective, the required values have been taken from the records of the pressure-tube instrument, and to these values appropriate exposure-factors have been applied. Values thus obtained are entered in italics, as are also the mean hourly values for the days in question.

In the tables showing "Highest instantaneous wind speed recorded each day by the Dines tube anemograph" (Table 151) and "Distribution of wind speed: extreme velocities as recorded by the Dines tube anemograph" (Table 152), the values entered for the *gusts* are those actually recorded by that instrument, but it must be remembered that these values are defective in that they are values recorded on a site whose exposure is known to have deteriorated considerably.

In Table 152 the values of distribution of wind speed for each month, and those of highest hourly wind are taken entirely from the records of the Robinson cup-anemograph.

Earth Temperature.—Readings have been made at 9h G.M.T. of the earth temperature at nominal depths of one foot and four feet below the surface of the grass.

The thermometers and the method of exposure are of the standard type described in the *Meteorological Observer's Handbook.* The depths of the thermometer bulbs below the grass-covered surface of the ground are 30 and 122 cm. The instruments in use throughout the year are new ones installed in December, 1930. The data published in the *Observatories' Year Books* 1922–1930 were the readings of a thermometer of unorthodox type which was graduated in degrees Fahrenheit, was kept at a depth of 124 cm., and which has been described in earlier Year Books. In view of the change of instruments comparative readings of the old and new four-foot thermometers were taken over a period of four months. After conversion of the individual readings of the old instrument from degrees Fahrenheit to degrees Absolute it is found that the 139 differences, new—old, have the following frequency distribution :—

Difference in °A	−0·3	−0·2	−0·1	0·0	+0·1
Number of Cases	3	16	56	32	32

The mean overall difference is −0·04°A, and there is obviously an excess of negative differences. The excess arises almost entirely from a period of a month during which ground temperature was falling at the rate of about 0·05°A per day. Over this period the mean difference is $-0{\cdot}16°$A whilst over the remaining three months the mean difference is only $-0{\cdot}01°$A. From the plotted daily temperatures of the two instruments it is otherwise evident that fluctuations of temperature are recorded by the new instrument with fractionally greater amplitude than by the old instrument.

Minimum Temperature on the Grass.—The grass minimum thermometer is exposed in the enclosure on two wooden pegs about 4 cm. above grass. It is set at 18h and read at 7h, the reading being entered to the day of observation. The grass minimum thermometer M.O. 17866 was broken accidentally on the 2nd March, and was replaced by M.O. 17944/27. There is no correction to grass minimum thermometers M.O. 17866 and 17944/27.

Cloud.—From the 1st January, 1931, the recording of cloud-forms at Aberdeen has been in conformity with the definitions laid down in "Instructions for Meteorological Telegraphy" M.O. 191/1 (1930).

The term Nimbus is therefore now confined to "the ragged low cloud of bad weather," and the use of the designation "Nimbo-stratus" has been discontinued.

Visibility.—In the subjoined table there is given a list of the objects used for the determination of the degree of visibility, together with their distances and bearings from the observation-point, which may be taken as the roof of the Observatory tower, the N.E. corner thereof being used for the nearer objects.

The range of visibility from the Observatory is somewhat limited by the high ground surrounding the city. From S.E. through S. to N. the distance of the visible horizon is between 2 and 4 miles (4 to 7 km.), but in the N.W. a higher hill, at a distance of 5 miles (8·5 km.), rises above the nearer ridges. To the N.N.E. however there is a clear view of the coast-line as far as Cruden Scaurs, where the coast consists of cliffs over 100 feet high, and is nearly 19 miles (30 km.) distant. From N.N.E. to S.E. there is only the sea-line as horizon, which from the height of the Observatory tower is about 10 miles (16 km.) distant.

Definite objects exist at standard distances from A to H, but from I to M there are no definite objects, though there are adequate identification marks for K and L. Owing, however, to these marks being on the sea-coast, and to the generally clearer visibility to the seaward side of the Observatory, it has been deemed advisable to employ small letter entries for all visibility distances that are not definitely landward estimates. The distances I and J are based upon estimates between other available distances. The 21h observations of weather and visibility are made as a rule not actually at the Observatory, but in the neighbourhood within a radius of one or two miles. Apart from that it has to be remarked that, during darkness when the usual fixed objects cannot be seen, the estimates depend upon personal judgment, and upon the degree of obscuration, and alteration in the colour, of the surrounding lights of the town.

VISIBILITY OBJECTS AT ABERDEEN.

OBJECT.	DESCRIPTION.	DISTANCE.	BEARING.
A	Steam-pipe on Boiler house	26 yards.	N.E.
B	Top of finial at East end of University Library roof	55 ,,	E.S.E.
C	Gate in North wall of Athletics ground	110 ,,	E.N.E.
D	East wall of Athletics ground, and trees along it	218 ,,	E.
E	(i.) Ventilator tops on Sunnybank School	550 ,,	S.W.
	(ii.) Pressure-tube Anemograph pole	ca.550 ,,	E.
F	Top of Kiln, Seaton Brickworks	1,100 ,,	N.E.
G	(i.) Turret of Salvation Army Citadel	$1\frac{1}{5}$ miles.	S.S.E.
	(ii.) Coastguard watch-tower	$1\frac{1}{3}$,,	N.E.
H	(i.) Girdleness lighthouse-top	$2\frac{3}{5}$,,	S.E.
	(ii.) Springhill House	$2\frac{1}{2}$,,	W.
I (i)	No object. Estimate between Strabathie Hill ($3\frac{1}{2}$ miles) and Brimmond Hill ($5\frac{1}{4}$ miles).	($3\frac{1}{2}$,,) ($5\frac{1}{4}$,,)	N.N.E. N.W.
J (j)	No object. Estimate between Brimmond Hill ($5\frac{1}{4}$ miles) and Sea horizon (10 miles).	($5\frac{1}{4}$,,) (10 ,,)	N.W. E.
K (k)	Sand-patch, mouth of Ythan River	$12\frac{1}{2}$,,	N.N.E.
L (l)	Cruden Scaurs	$18\frac{2}{3}$,,	N.N.E.
M (m)	Cannot see so far. Used when "L" object shows clear detail and colour-differences.		

IDENTIFICATION NUMBERS OF INSTRUMENTS USED IN 1931.

The following were the instruments actually in use during the year 1931 :—

Standard Fortin Barometer	M.O. 1149
,, Dry Bulb Thermometer	M.O. 1698
,, Wet ,, ,,	M.O. 1697
Recording Beckley Rain-gauge	2
Control Rain-gauge	M.O. 266
Glass for ,,	M.O. 1657
Hair Hygrograph	M.O. 154/27
Campbell-Stokes Sunshine Recorder	M.O. 32
Robinson Cup Anemograph	M.O. 50
Dines Tube ,,	M.O. 1011
Earth Thermometers	M.O. 6, M.O. 11
Grass Minimum Thermometer	M.O. 17866 and 17944/27

Review of Meteorological Results

Pressure.—The average value of pressure over the year was 0·2 mb. below the normal. September, with an average of 1021 mb.—an excess of 7 mb. over the normal —experienced the highest monthly pressure of the year. The greatest departures from the normal were an excess of 10 mb. in December and a defect of 8 mb. in July. Pressure was below normal from January to July except in March, while from August to December it was above normal except in November. The range of pressure during the year was 71 mb. ; the months of January, November and December all had ranges exceeding 60 mb.

The mean diurnal inequalities for the months, seasons and year have been analysed harmonically, with the results set out in the accompanying Table. The unit employed for the months is, as before, ·01 mb., that for the seasons and the year is ·001 mb., and the phase-angles are reduced to Local Mean Time. The average values of the various coefficients for the period 1871-1926, computed by Dr. A. Crichton Mitchell*, are given for comparison.

* Diurnal Variation of Pressure and Temperature at Aberdeen, 1871-1926, by A. Crichton Mitchell, D.Sc., Q.J.R. Met. Soc., 1929, p. 197.

The inequality is supposed to be given by the expression :—

$$c_1 \sin(15t^\circ + \alpha_1) + c_2 \sin(30t^\circ + \alpha_2) + \ldots\ldots$$

t being the time in hours since midnight.

HARMONIC COMPONENTS OF THE DIURNAL INEQUALITY OF ATMOSPHERIC PRESSURE—ABERDEEN, LONGITUDE 2° 6′ W.

Values of c_n, α_n, in the series $\Sigma c_n \sin(15nt^\circ + \alpha_n)$, t being Local Mean Time reckoned in hours from midnight.

Month and Season.	c_1		α_1		c_2		α_2		c_3		α_3		c_4		α_4	
	1931	1871–1926	1931	1871–1926	1931	1871–1926	1931	1871–1926	1931	1871–1926	1931	1871–1926	1931	1871–1926	1931	1871–1926
	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°
January	·46	·094	189	171	·20	·227	158	151	·16	·130	352	355	·04	·054	237	221
February	·18	·156	73	176	·24	·270	158	149	·18	·104	329	355	·02	·026	79	96
March	·15	·164	225	158	·26	·295	136	151	·04	·052	354	336	·05	·031	21	35
April	·15	·153	36	155	·25	·284	152	151	·02	·019	276	188	·06	·044	32	359
May	·17	·098	117	135	·23	·237	139	143	·04	·059	145	163	·03	·022	319	329
June	·47	·057	202	104	·19	·219	153	141	·07	·065	179	155	·02	·008	248	331
July	·09	·089	168	137	·16	·208	131	144	·06	·068	139	159	·02	·013	327	345
August	·17	·112	177	162	·24	·232	136	145	·05	·041	150	167	·03	·029	18	336
September	·17	·119	161	146	·26	·287	145	148	·03	·027	331	342	·05	·053	19	339
October	·21	·155	250	183	·31	·274	148	149	·08	·075	344	349	·04	·027	6	20
November	·41	·132	217	197	·28	·229	147	152	·09	·103	19	354	·02	·014	224	172
December	·19	·164	306	169	·26	·211	147	146	·11	·122	7	356	·06	·051	156	204
Arithmetic Mean ...	·23		—	—	·24		—	—	·08		—	—	·04		—	—
Year	·139	·116	196	163	·238	·247	146	149	·038	·030	357	0	·015	·009	14	340
Winter	·172		207		·243		152		·128		352		·020		175	
Equinox	·067		217		·269		145		·037		335		·051		20	
Summer	·194		178		·204		140		·053		150		·017		331	

Note.—*Winter* comprises the four months January, February, November, December ; *Equinox* the months March, April, September, October ; and *Summer* May to August.

The amplitude of the 24-hour term for the year is distinctly lower than it was last year, and approaches more closely its average value. The values for the individual months are unusually steady except in January, June and November which have amplitudes between two and three times as large as those of the other months. The phase-angles however vary irregularly.

In the 12-hour term the spring maximum has an amplitude less than the normal, but the autumn maximum is greater than normal and occurs a month later than usual. The summer minimum is also well marked.

The 8-hour and 6-hour terms follow their normal courses. The seasonal reversal of phase of the former term is well shown, while in the latter term, the yearly value of the amplitude is higher than normal.

Temperature.—The temperature over the year 1931 was equal to its normal value. Of the individual months, March was 2·2°A, August 1·7°A, and September 0·9°A below the normal values for those months, while November and December had excesses of 2·6°A and 2·2°A, respectively. March was the coldest month of the year.

Rainfall.—Following a series of wet years, 1931 showed a total fall of 737 mm., which is 11 mm. below the normal. The distribution of rainfall throughout the year was unusual. January and February had excesses of 18 mm. and 15 mm. respectively, March and April had deficiencies of 23 mm. and 9 mm., May and June excesses of 45 mm. and 45 mm., July was but little above normal with an excess of 4 mm., August, September and October were below normal by 23 mm., 33 mm. and 37 mm., respectively, November had an excess of 36 mm. and December a deficiency of 49 mm. No less than seven months of the year thus showed departures of between 50 and 100 per cent. from their normal values.

There was a fairly well-marked relation between the distribution of pressure and the incidence of rainfall during the year, the periods of excess pressure being periods of deficient rainfall, and *vice versa*.

Relative Humidity.—The relative humidity for the year as a whole was higher than normal by over 2 per cent. Only two months, October and December, had humidity values lower than the normal—by 2 and 1 per cent., respectively. On the other hand both July and August had values above normal by 7½ per cent., and November by 5 per cent. Relative humidity was again, on the whole, more closely related to the incidence of sunshine than to that of rainfall.

Sunshine.—1931 was a very dull year, its average of 27 per cent. of the possible sunshine being 4 per cent. below the normal value. January and February were relatively bright months with excesses of 6 and 3 per cent., though they were wet months. March ushered in a dull period which, lasting till September, resulted in an average monthly deficiency of 6 per cent.; during this period May was the only month to receive its normal quota of sunshine, while deficiencies of 12 and 14 per cent. occurred in April and July respectively. October and December had excesses of 3 and 5 per cent., respectively, and November showed a deficiency of 4 per cent.

Wind.—The average wind velocity for the year was 4·3 m/s. November, with 5·2 m/s was the windiest month, closely followed by March and April, both of which had 5·1 m/s. while July and August with 3·4 m/s and 3·5 m/s, respectively, were the quietest months. Only one gale was recorded; it occurred in January.

Aurora.—Aurora was observed on 4 occasions only, 1 in the early part of the year and 3 in the later half. Dates of occurrence will be found in the General Auroral Table.

General.—1931 was a year of marked irregularity of rainfall, though on the whole it was a slightly drier year than usual, and the first such year for a considerable period. The year was also dull, with high relative humidity of the air, but normal temperature. January and February were wet but sunny; March was cold, windy and dull, but dry; July rather wet, very dull, but normal in temperature; August and September were cold, rather dull and dry; November and December were mild, the former dull and wet, the latter dry and sunny.

Readings in millibars at exact hours, Greenwich Mean Time.

69. Aberdeen : H_b (height of barometer cistern above M.S.L.) = 26·0 metres. **January, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	983·8	983·6	983·6	982·8	982·8	982·3	982·2	982·4	982·4	983·0	982·7	982·3	982·2	982·2	982·2	982·0	981·9	981·8	981·9	981·9	981·8	981·9	982·0	982·1	982·4
2	981·9	981·9	982·0	982·1	982·2	982·4	983·0	983·5	984·2	984·6	984·8	985·1	985·3	985·6	986·0	986·4	986·9	987·3	987·5	988·3	988·3	988·6	988·9	989·1	985·1
3	989·1	989·2	989·1	989·0	988·9	988·7	988·8	989·0	989·3	990·0	990·0	990·0	990·2	990·3	990·5	990·6	991·0	991·5	991·9	992·2	993·1	993·7	994·4	994·7	990·5
4	995·2	995·7	996·4	996·6	997·1	998·0	998·9	999·5	000·7	001·6	002·2	002·6	003·2	003·6	004·0	004·8	005·7	006·7	007·4	007·9	008·7	009·3	010·0	010·6	002·4
5	011·1	011·7	012·3	012·9	013·4	014·0	014·5	015·0	015·9	016·4	016·5	016·6	016·7	017·0	017·4	018·0	018·4	018·7	019·1	019·4	019·7	020·1	020·4	020·9	016·3
6	021·2	021·5	021·9	022·1	022·2	022·6	023·2	024·0	024·5	025·0	025·3	025·3	025·4	025·9	026·3	026·4	026·7	027·2	027·6	027·7	028·3	028·4	028·5	028·7	025·1
7	028·7	028·9	029·0	029·3	029·5	029·4	029·8	030·0	030·4	030·5	030·7	030·4	030·1	030·0	030·1	030·0	029·7	029·7	029·6	029·1	028·8	028·4	027·7	027·5	**029·5**
8	027·1	026·8	026·1	025·6	024·8	024·2	023·9	023·5	023·0	022·4	021·5	020·3	019·0	018·5	017·9	018·1	018·0	018·1	018·5	019·1	019·1	019·6	019·6	019·9	021·6
9	020·1	020·4	020·2	020·6	020·3	020·7	021·2	021·3	021·7	021·7	021·6	021·8	021·9	021·9	021·9	021·9	021·9	022·1	022·1	022·0	021·8	021·5	020·9	020·8	021·3
10	020·5	020·0	019·8	019·2	018·8	018·4	017·8	017·6	017·4	017·1	016·8	016·4	015·8	015·3	014·8	015·0	014·6	014·7	014·5	014·3	013·4	013·1	012·0	011·6	016·4
11	010·9	010·5	009·8	009·3	008·3	007·8	007·3	006·9	006·4	005·9	004·6	004·4	004·2	004·2	004·3	003·8	003·7	003·1	002·8	002·4	002·0	001·5	000·7	000·3	005·5
12	999·7	999·0	998·4	997·5	997·0	996·9	997·1	997·2	997·5	998·1	998·3	998·1	998·2	998·2	998·9	999·7	000·5	002·0	003·3	004·5	005·7	006·6	007·3	008·3	000·2
13	008·8	009·7	010·4	011·1	011·2	011·8	012·7	013·8	014·2	014·4	014·8	014·7	014·6	015·0	015·4	015·4	015·7	016·5	016·7	017·0	016·8	016·6	016·4	016·4	014·0
14	016·3	016·0	015·6	015·2	014·4	013·8	013·7	012·9	012·3	011·1	010·0	008·6	006·9	006·4	005·6	005·0	004·7	004·3	004·1	003·4	002·9	002·7	001·8	001·1	009·0
15	000·6	000·7	001·0	000·8	000·8	001·1	001·5	001·8	002·8	003·3	003·7	003·6	003·0	002·7	002·2	001·5	000·3	999·3	998·5	997·5	996·3	995·9	995·3	994·6	000·5
16	994·3	993·8	993·7	993·2	992·7	992·6	991·7	991·5	990·8	989·8	988·3	986·2	984·9	982·4	980·8	979·2	978·3	979·3	979·0	979·6	980·1	980·5	981·0	981·7	986·3
17	981·1	980·7	982·0	982·8	984·6	985·5	986·8	987·9	988·7	990·1	991·3	992·4	993·4	994·6	995·5	996·6	997·4	998·7	999·2	999·5	000·2	001·0	001·5	002·2	991·8
18	002·4	002·8	003·3	003·5	003·5	003·7	004·0	004·7	005·3	006·0	006·4	006·5	006·4	006·5	006·9	007·0	006·7	006·8	007·1	006·2	005·6	004·4	003·0	001·3	005·0
19	000·5	999·7	998·6	998·0	997·6	997·8	998·4	999·4	000·4	001·6	003·0	003·6	004·3	005·2	006·3	006·8	007·5	008·2	008·3	008·7	008·9	008·9	008·1	007·9	003·5
20	007·9	007·8	007·4	007·2	006·5	005·5	005·4	005·3	005·1	005·2	005·4	006·0	007·0	008·3	009·0	010·2	011·1	011·8	012·0	012·4	012·6	012·9	013·4	013·4	008·6
21	013·7	013·7	013·4	013·0	012·3	012·1	012·0	012·0	011·4	011·1	010·9	010·1	009·1	008·5	008·1	007·9	007·4	007·3	006·7	006·5	006·1	005·5	005·2	004·5	009·7
22	003·8	003·0	002·5	001·7	001·1	000·2	999·9	000·4	000·4	000·5	000·8	000·9	000·5	000·4	000·0	999·8	999·3	998·2	997·2	996·1	994·5	992·2	989·6	988·0	999·1
23	985·8	983·2	982·2	979·4	978·2	977·3	975·7	975·7	975·8	976·3	975·5	975·1	975·0	974·3	974·1	974·0	973·4	972·8	971·2	970·0	968·8	967·5	965·8	965·6	975·2
24	965·3	964·9	964·9	965·4	965·5	965·7	966·7	967·9	969·1	970·4	971·4	972·4	973·8	975·1	976·5	977·8	978·6	980·1	980·8	981·0	981·6	981·9	982·5	983·0	**973·1**
25	983·9	984·5	985·2	985·2	985·7	986·2	987·1	988·1	989·4	990·2	991·0	991·7	992·6	993·0	993·5	994·7	995·4	996·4	996·9	997·5	998·4	999·1	999·8	000·4	991·5
26	001·6	002·4	003·1	003·9	004·3	004·7	005·2	005·7	005·7	006·4	006·4	006·5	007·3	007·5	008·0	009·1	010·2	012·0	012·2	012·1	012·4	013·4	014·5	014·5	007·6
27	015·4	016·0	016·1	016·3	016·6	016·7	016·4	016·4	016·2	015·7	015·3	014·6	013·2	012·4	011·2	010·5	009·6	008·6	007·5	006·1	004·7	003·5	002·4	001·7	012·1
28	000·6	999·6	999·0	998·7	998·4	998·5	999·0	999·6	999·7	000·0	000·5	000·5	000·5	000·4	000·7	000·6	000·4	000·2	999·8	999·7	999·2	998·9	998·5	998·2	999·7
29	997·7	997·3	997·2	996·6	996·2	996·2	996·3	996·6	997·0	997·5	998·1	998·6	998·7	998·9	999·5	000·3	000·9	001·7	002·1	002·6	003·2	003·6	004·2	004·6	999·3
30	004·9	005·5	005·8	006·4	007·0	007·6	008·4	009·6	010·4	011·3	012·0	012·4	012·7	013·1	013·5	014·3	015·0	015·0	015·1	015·1	015·0	014·4	014·3	014·1	011·2
31	014·0	013·4	012·5	011·5	010·4	009·4	008·3	008·0	006·7	005·5	004·9	004·2	002·6	001·5	000·0	999·0	998·1	997·6	996·0	996·0	995·6	995·1	994·6	994·8	003·7
Mean (Station level)	1002·84	1002·71	1002·66	1002·48	1002·33	**1002·32**	1002·48	1002·81	1003·06	1003·31	1003·38	1003·29	1003·18	1003·19	1003·26	1003·43	1003·52	**1003·80**	1003·76	1003·74	1003·66	1003·57	1003·36	1003·31	1003·14
Mean (Sea level)	1006·08	1005·95	1005·90	1005·72	1005·57	**1005·55**	1005·72	1006·05	1006·30	1006·55	1006·61	1006·51	1006·41	1006·41	1006·49	1006·66	1006·74	**1007·03**	1007·00	1006·98	1006·91	1006·81	1006·60	1006·55	1006·37

Station Level

70. Aberdeen : H_b = 26·0 metres. **February, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	994·8	994·8	994·5	994·5	994·7	994·7	995·5	997·0	998·4	999·4	999·7	000·3	000·7	001·4	002·1	003·0	003·4	004·3	004·7	004·9	005·1	005·1	005·0	005·0	999·9
2	004·9	005·0	005·4	005·8	005·8	006·0	006·4	006·9	007·2	006·8	007·0	006·5	005·6	006·2	006·7	007·3	009·2	011·2	012·6	014·1	015·3	017·0	018·0	018·7	008·7
3	019·3	020·4	021·7	022·2	022·6	023·2	023·9	024·5	024·7	025·2	025·3	025·2	025·3	025·3	025·0	025·0	024·9	025·0	024·9	024·9	024·9	024·5	024·5	024·3	**023·9**
4	023·9	023·8	023·3	022·8	022·2	021·8	021·6	021·4	022·2	021·3	021·6	021·0	020·7	020·6	020·7	020·5	020·6	020·4	020·6	020·6	020·5	020·4	020·8	020·9	021·5
5	020·5	019·6	019·7	019·6	019·4	019·0	018·9	018·7	018·7	018·5	018·3	017·3	017·0	016·5	015·7	015·0	014·3	014·1	013·8	013·2	012·0	011·6	010·6	010·1	016·6
6	009·7	009·3	008·8	008·1	007·6	007·4	007·1	006·9	007·2	007·6	007·7	007·5	007·3	007·2	007·1	007·3	007·4	007·8	007·8	007·7	007·5	007·3	007·1	007·0	007·7
7	006·8	006·4	005·6	005·2	004·7	004·0	003·6	003·1	002·7	002·3	001·8	001·3	001·0	001·1	001·2	001·4	001·5	001·9	002·4	002·2	002·0	001·9	001·9	002·1	002·9
8	002·0	001·4	001·2	000·8	000·4	999·6	998·7	998·1	997·3	996·1	995·4	995·3	994·0	993·5	993·4	993·5	993·7	994·0	993·9	993·8	993·9	994·0	994·2	995·1	996·5
9	994·9	995·3	995·7	996·2	996·4	997·0	997·6	998·4	999·1	999·8	000·7	000·1	999·7	999·8	999·4	999·1	999·0	998·3	997·0	995·8	994·8	992·9	991·2	990·6	997·1
10	991·2	991·4	990·9	989·8	989·8	989·8	989·6	989·9	990·0	990·6	991·1	991·7	992·6	993·5	993·9	995·2	996·4	997·5	997·3	997·4	998·0	998·8	998·9	999·5	993·3
11	999·5	999·4	999·5	998·8	998·2	997·3	996·7	995·7	994·0	992·8	990·4	988·2	983·9	980·5	977·1	975·5	974·7	974·1	973·2	972·4	971·2	969·8	968·6	968·3	985·6
12	968·6	969·4	971·5	972·7	974·6	976·3	977·8	978·8	980·6	982·0	983·6	984·2	984·4	984·3	985·5	985·6	984·9	986·0	986·0	985·7	985·6	985·7	985·6	985·6	**980·7**
13	985·7	985·9	986·7	987·6	988·5	989·4	990·5	992·3	993·2	993·9	994·7	995·1	995·5	996·3	997·2	998·2	999·3	000·6	001·5	002·3	002·9	003·7	004·5	005·2	995·0
14	005·6	006·9	007·4	007·8	008·3	008·9	009·3	009·9	009·9	010·0	010·3	010·1	009·8	009·4	008·4	007·3	006·4	005·3	004·3	003·0	001·5	000·1	999·2	999·1	006·7
15	998·3	998·0	997·6	996·7	996·1	996·0	995·4	995·9	995·4	995·3	995·2	994·7	993·8	992·9	991·9	990·7	989·7	989·1	987·8	987·7	986·6	985·6	984·9	984·0	992·8
16	982·9	982·5	981·9	981·7	981·4	980·9	980·7	981·5	981·6	981·9	982·2	982·6	982·8	983·1	983·3	984·0	984·9	985·8	986·6	987·5	988·0	988·2	989·6	990·2	983·9
17	990·7	991·7	992·5	993·6	994·7	996·3	998·4	000·3	002·2	003·9	006·0	007·5	008·2	009·4	010·4	011·2	012·0	013·0	013·8	014·3	014·6	015·1	015·1	015·8	004·9
18	015·9	016·7	016·7	016·8	016·9	017·7	018·4	019·2	019·4	019·6	019·5	018·9	018·8	018·4	017·8	017·5	017·0	017·0	016·7	016·2	015·6	014·5	013·4	012·9	017·2
19	011·8	010·8	009·7	008·5	007·6	006·6	005·7	005·2	003·9	003·7	003·5	002·9	002·5	002·6	002·7	003·0	002·8	002·6	002·7	002·6	002·4	001·7	000·5	999·5	004·7
20	998·6	996·9	995·3	993·8	992·0	989·7	987·9	987·0	985·6	985·8	985·7	985·9	986·2	987·0	987·3	987·6	987·8	988·3	988·3	988·3	988·5	988·8	988·8	988·9	989·4
21	989·2	988·8	988·8	989·0	989·3	989·0	989·8	990·6	990·9	992·5	993·8	994·7	995·4	996·2	997·2	998·3	998·8	999·7	000·4	001·2	002·0	002·8	003·5	003·8	994·9
22	004·4	004·7	004·8	004·8	004·7	004·8	005·2	005·2	005·3	005·4	005·8	005·8	005·8	005·5	005·3	005·3	006·1	007·2	008·0	008·3	008·6	009·1	009·9	010·3	006·1
23	010·3	010·2	010·1	010·1	010·2	010·7	011·2	011·9	012·2	012·6	013·0	013·4	013·9	014·2	014·6	015·5	016·2	017·2	017·7	018·4	019·1	019·6	020·1	020·3	014·1
24	020·4	020·3	020·0	018·9	018·6	017·6	016·9	017·1	016·3	014·4	013·9	011·1	009·3	008·2	006·5	005·2	005·0	004·9	005·1	005·6	006·1	006·5	007·1	007·2	012·0
25	007·8	008·1	008·2	008·0	007·4	006·7	005·6	003·9	003·1	002·3	001·6	000·4	999·7	998·9	998·8	999·2	999·4	000·0	001·3	002·2	002·3	002·3	002·0	001·8	003·1
26	001·3	001·2	001·5	001·6	001·5	001·4	001·4	001·5	001·2	001·1	001·2	001·3	001·2	001·5	002·0	002·8	003·4	005·4	006·1	006·9	007·8	008·4	008·5	008·9	003·1
27	009·0	009·0	008·8	008·3	007·8	007·3	006·6	005·9	005·2	004·7	004·2	003·9	001·6	000·1	998·6	997·5	996·6	995·5	994·2	993·3	992·1	991·4	990·6	990·2	001·3
28	989·8	988·9	988·2	987·6	987·3	986·9	986·7	986·7	985·6	985·9	985·8	985·5	984·9	983·9	983·3	983·3	983·3	983·6	983·9	984·7	984·9	985·6	987·1	987·7	985·9
Mean (Station level)	1002·06	1002·03	1002·00	1001·83	1001·74	1001·64	1001·68	1001·91	1001·90	1001·98	**1002·11**	1001·87	1001·49	1001·34	**1001·18**	1001·25	1001·38	1001·78	1001·88	1001·97	1001·92	1001·87	1001·83	1001·89	1001·78
Mean (Sea level)	1005·30	1005·27	1005·24	1005·08	1004·98	1004·88	1004·92	1005·15	1005·13	1005·21	**1005·33**	1005·09	1004·70	1004·55	**1004·40**	1004·47	1004·61	1005·01	1005·11	1005·21	1005·16	1005·11	1005·07	1005·13	1005·01
Hour G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

Station Level

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

71. Aberdeen : H_b (height of barometer cistern above M.S.L.) = 26·0 metres. **March, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Station Level — Day.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	988·0	988·6	989·2	990·9	992·0	992·9	994·7	996·0	997·1	999·0	000·1	000·7	002·0	003·0	004·5	006·0	006·6	007·6	008·1	008·6	009·0	009·1	009·1	008·8	000·0
2	008·4	007·8	007·0	006·5	005·6	005·0	004·8	004·6	005·0	004·6	005·0	005·2	005·1	005·2	004·9	004·8	004·7	005·2	005·4	005·7	006·2	006·4	006·4	006·7	005·7
3	007·1	007·2	007·5	007·7	007·8	008·0	008·7	008·9	009·2	009·6	009·8	010·2	010·2	010·2	010·3	010·4	010·7	011·1	011·3	011·7	011·9	012·1	012·6	013·1	009·8
4	013·3	013·4	013·7	014·0	014·1	014·3	014·8	015·4	015·8	015·9	016·4	016·7	016·6	016·7	016·9	017·1	017·3	017·8	018·2	018·2	018·2	018·3	018·3	018·3	016·1
5	018·5	018·4	018·3	018·1	018·0	018·0	018·0	018·1	018·0	018·2	018·2	018·2	018·1	018·0	017·8	017·8	017·9	017·9	018·0	018·3	018·5	018·7	019·1	019·2	018·2
6	019·1	019·0	018·8	019·1	019·2	019·5	019·9	019·9	019·6	018·8	018·9	018·9	018·3	017·7	017·6	017·2	017·0	016·9	016·9	016·4	015·9	015·7	015·4	014·9	018·0
7	014·5	014·1	013·5	013·2	012·9	013·3	013·4	013·9	014·1	014·5	014·7	014·9	015·3	015·6	015·6	015·9	016·2	017·1	017·2	017·6	017·8	017·8	018·2	018·3	015·3
8	018·2	018·1	017·8	017·5	017·2	017·1	016·9	017·0	017·1	016·9	017·0	016·9	016·7	016·6	016·5	016·3	015·8	015·5	015·4	015·3	015·1	014·7	014·6	014·0	016·5
9	013·8	013·5	013·2	012·8	012·4	012·3	012·4	012·6	012·4	012·4	012·5	012·5	011·9	011·8	011·1	010·6	009·8	009·4	008·2	007·3	006·7	006·4	006·3	006·1	010·9
10	006·1	005·6	005·5	005·2	005·1	004·9	004·9	005·2	004·8	004·2	004·0	003·9	003·2	003·1	003·1	003·2	003·3	003·6	003·6	004·1	004·4	004·4	004·8	004·9	004·4
11	005·2	005·5	005·4	005·4	005·9	006·1	006·4	006·6	006·7	006·7	006·5	006·4	006·2	005·6	005·4	005·2	005·1	004·7	004·3	003·8	003·2	003·0	002·7	002·8	005·2
12	002·9	003·0	003·2	003·3	003·6	003·7	004·0	004·3	004·3	004·6	004·5	004·4	004·4	003·9	003·3	003·0	002·7	002·8	002·7	002·3	002·2	002·1	001·8	001·5	003·3
13	001·2	000·7	000·0	999·5	999·0	998·4	998·1	998·0	997·9	997·7	997·7	997·6	997·0	996·8	996·2	996·0	995·9	995·7	995·7	995·7	995·5	995·4	995·3	995·2	**997·5**
14	995·1	995·1	995·1	995·3	995·3	995·7	996·1	996·8	997·3	997·8	998·4	999·1	999·3	000·0	000·3	000·7	001·4	001·9	002·4	002·8	003·3	004·1	004·6	005·2	999·1
15	005·5	005·9	006·2	006·3	006·8	007·0	007·6	008·2	008·8	009·0	009·3	009·4	009·5	009·5	009·4	009·4	009·5	010·0	010·5	010·9	011·3	011·4	011·5	011·7	008·8
16	011·8	012·0	012·0	011·9	011·9	012·1	012·4	012·9	013·1	013·3	013·5	013·6	013·6	013·7	013·8	013·9	014·1	014·6	015·0	015·3	015·4	015·5	015·5	015·5	013·5
17	015·4	015·1	014·7	014·3	013·9	013·6	013·8	013·7	013·6	013·8	013·8	013·7	013·9	013·8	013·1	012·9	012·9	012·4	012·4	012·5	012·5	012·4	012·2	012·1	013·5
18	011·8	011·6	011·1	010·6	010·2	010·3	010·5	010·5	010·5	010·4	010·3	010·3	009·9	009·6	009·4	009·1	009·1	009·3	009·2	009·2	009·1	009·2	009·0	008·9	010·0
19	008·7	008·2	008·1	008·1	008·1	008·1	008·4	008·5	008·6	008·7	008·6	008·5	008·3	008·0	007·8	007·5	007·6	008·2	008·2	008·3	008·0	008·1	007·7	007·8	008·2
20	007·5	007·1	006·7	006·5	006·2	006·0	006·3	006·2	006·4	006·2	006·1	006·1	006·0	005·8	004·9	004·8	004·7	004·9	004·7	004·6	004·8	004·7	004·3	004·1	005·7
21	003·7	003·4	002·8	002·7	002·5	002·6	002·4	002·5	002·4	002·4	002·5	002·4	002·3	002·2	002·4	002·3	002·3	002·6	002·6	002·7	002·7	002·5	002·4	002·3	002·6
22	002·3	002·5	002·5	002·8	003·1	003·2	003·7	003·9	004·3	004·3	004·3	004·3	004·3	004·2	004·3	004·5	005·0	005·6	006·0	006·8	007·3	007·6	007·8	008·5	004·6
23	008·9	009·5	009·8	010·3	010·7	011·5	012·9	013·4	014·2	014·9	015·7	016·1	017·0	017·7	018·3	019·0	019·8	021·0	021·7	022·9	023·7	024·8	025·5	025·8	016·5
24	026·4	026·8	027·3	027·7	027·9	028·7	029·5	030·2	030·8	031·3	031·6	032·2	032·1	032·2	032·4	032·5	032·9	033·4	033·5	033·6	033·9	034·2	034·2	034·1	031·1
25	034·0	033·7	033·6	033·4	033·5	033·6	034·1	034·2	034·2	034·1	034·2	034·0	033·9	033·3	033·1	032·8	032·7	032·9	033·1	033·1	033·0	032·8	032·8	032·7	**033·5**
26	032·4	031·8	031·2	031·0	030·8	030·8	030·8	030·7	030·5	030·4	030·2	029·6	029·4	028·7	028·1	027·5	027·0	027·0	026·8	026·4	025·9	025·5	025·1	024·6	029·0
27	024·4	023·7	023·3	022·9	022·7	022·3	022·2	022·1	021·5	021·1	020·7	020·6	020·2	020·1	019·7	019·4	019·5	019·9	020·3	020·6	020·8	021·5	021·8	022·6	021·5
28	022·9	023·3	023·5	023·8	024·3	024·8	025·5	026·0	026·3	026·6	026·7	026·8	027·2	027·3	027·3	027·4	027·6	027·9	028·1	028·2	028·1	028·2	028·0	028·0	026·3
29	027·9	027·8	027·7	027·4	027·2	026·9	027·0	026·9	026·8	026·7	026·6	026·2	025·7	025·2	024·3	023·8	023·4	023·2	022·9	023·0	023·0	023·1	023·0	022·8	025·5
30	022·6	022·2	021·9	021·9	021·7	021·7	022·1	022·3	022·5	022·6	022·8	022·9	023·1	023·0	022·7	022·6	022·7	022·7	022·8	022·9	023·1	023·2	023·4	023·4	022·6
31	023·3	023·0	023·0	022·7	022·6	022·7	022·7	022·8	022·9	023·1	023·2	023·1	023·4	023·1	022·6	022·2	021·9	021·7	021·5	021·6	021·4	021·1	021·0	020·7	022·4
Mean (Station level)	1012·93	1012·83	1012·70	1012·67	**1012·65**	1012·75	1013·06	1013·30	1013·44	1013·54	1013·67	1013·72	1013·68	1013·60	1013·45	1013·41	1013·45	1013·69	1013·76	1013·88	1013·93	1014·00	1014·01	**1014·02**	1013·40
Mean (Sea level)	1016·22	1016·11	1015·98	1015·96	**1015·95**	1016·04	1016·36	1016·59	1016·72	1016·82	1016·94	1016·98	1016·94	1016·86	1016·71	1016·67	1016·72	1016·96	1017·04	1017·16	1017·21	1017·28	1017·30	**1017·31**	1016·68

72. Aberdeen : H_b = 26·0 metres. **April, 1931.**

Station Level — Day.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	020·3	019·9	019·5	019·1	018·9	018·6	018·6	018·4	017·8	017·9	017·6	017·1	016·7	016·0	015·2	014·7	014·4	014·0	013·8	013·4	013·0	012·1	011·6	011·0	016·4
2	010·2	009·2	008·3	007·4	006·5	006·3	006·1	005·7	005·4	005·1	004·8	004·4	003·6	003·2	002·6	002·4	002·2	002·0	002·1	002·1	002·1	002·0	001·9	002·0	004·7
3	001·7	001·9	002·0	002·1	002·4	003·1	003·7	004·1	004·4	004·8	005·1	005·5	005·9	006·0	006·2	006·5	007·0	007·4	007·6	007·8	008·0	008·1	008·0	007·9	005·2
4	007·6	007·5	007·5	007·3	007·0	006·6	006·4	005·9	004·8	004·4	003·9	002·9	001·2	000·0	999·1	998·7	999·4	999·2	999·3	999·0	998·3	997·7	997·5	997·6	002·7
5	997·9	998·0	997·8	997·5	997·2	997·2	997·3	997·4	997·9	998·4	999·0	999·2	999·6	999·6	999·3	999·3	999·5	999·7	999·7	999·9	999·9	000·1	000·4	000·8	998·8
6	001·0	001·0	001·0	001·5	001·6	002·3	003·4	003·9	004·1	004·3	004·6	004·8	004·9	005·1	005·2	005·2	005·1	004·9	005·0	005·5	005·7	005·6	005·6	005·6	003·9
7	005·4	005·0	004·7	004·6	004·5	004·6	004·4	004·3	004·1	004·2	004·3	004·2	004·1	004·1	004·3	004·4	004·7	005·2	005·2	005·3	005·5	005·6	005·6	005·9	004·8
8	006·1	006·2	006·3	006·2	006·3	006·6	006·7	006·8	006·8	006·9	006·9	007·0	006·9	006·8	006·6	006·5	006·4	006·4	006·4	006·4	006·5	006·5	006·7	006·7	006·5
9	007·0	007·2	007·6	007·8	008·4	009·3	010·1	010·7	011·4	011·9	012·5	012·8	013·2	013·5	014·0	014·4	015·0	015·9	016·5	016·9	017·2	017·5	018·0	018·6	012·6
10	018·7	018·8	018·9	019·2	019·5	019·9	020·1	020·3	020·1	019·9	019·7	019·7	019·6	018·6	017·7	017·3	016·9	016·7	016·5	016·6	016·4	016·1	015·6	015·3	018·3
11	014·9	014·1	013·6	013·0	012·6	012·5	012·3	011·8	011·5	011·1	010·9	010·3	010·1	009·1	008·7	007·5	006·6	006·5	006·2	005·9	005·5	005·2	005·5	005·9	009·8
12	006·7	007·0	007·4	007·9	008·7	008·9	009·3	009·5	009·2	009·3	008·9	008·2	007·4	006·8	005·7	005·8	006·4	007·2	007·8	008·7	009·8	011·1	011·5	012·4	008·3
13	012·7	013·1	013·5	014·0	014·3	014·9	015·5	015·7	015·8	015·5	015·5	015·5	014·9	014·8	014·6	013·8	013·6	013·3	012·9	013·0	012·7	012·7	012·7	012·8	014·1
14	013·0	013·2	013·4	014·0	014·2	014·8	015·6	015·9	016·5	016·7	017·1	017·0	016·9	017·3	017·5	017·6	017·7	017·9	018·2	018·4	018·7	018·6	018·5	018·1	016·4
15	017·9	017·5	016·8	015·9	015·2	014·8	014·4	013·7	013·1	012·1	011·6	011·2	010·8	010·2	010·3	010·4	010·5	011·4	011·8	012·6	012·9	013·1	013·4	014·0	013·2
16	014·3	014·2	014·4	014·5	015·0	014·9	014·8	014·2	014·1	013·5	013·0	012·1	010·8	009·6	008·3	007·2	005·3	003·6	003·3	002·5	001·7	000·7	000·1	999·6	009·5
17	999·1	998·5	998·0	997·8	997·6	997·6	997·2	997·2	997·4	997·3	997·7	997·7	997·3	996·6	997·1	998·9	000·3	001·6	002·9	004·4	005·3	006·3	006·8	007·6	999·8
18	007·9	008·2	008·5	009·0	009·5	010·0	011·1	011·5	012·0	012·6	013·1	013·7	014·6	014·9	015·2	015·7	016·2	017·2	017·6	017·8	017·9	018·0	018·1	018·6	013·5
19	018·7	018·8	018·9	019·1	019·6	019·9	020·2	020·4	020·6	020·6	020·6	020·7	020·7	020·6	020·5	020·3	020·2	020·2	020·2	020·3	020·3	020·3	020·2	020·1	**020·1**
20	019·8	019·5	019·2	019·0	018·6	018·4	018·3	018·4	017·9	017·9	017·8	017·7	017·5	017·2	016·8	016·7	016·6	016·6	016·4	016·5	016·5	016·1	015·7	015·4	017·6
21	014·9	014·4	013·5	013·2	012·9	012·4	012·1	011·7	011·1	010·8	010·3	010·1	009·7	008·8	007·9	007·8	007·3	007·2	007·1	007·2	007·2	007·3	006·9	006·4	010·1
22	005·9	005·3	004·8	004·4	004·2	004·3	004·4	004·1	003·9	003·6	003·2	003·0	002·8	002·4	002·1	001·8	001·6	001·5	001·4	001·4	001·3	001·2	001·0	000·8	003·1
23	000·4	000·3	000·1	999·6	999·4	999·2	998·9	999·0	998·6	998·5	998·4	998·2	998·1	997·5	997·1	996·8	996·1	996·0	995·9	995·9	996·0	996·0	995·9	995·8	997·9
24	995·8	995·7	995·6	995·6	995·5	995·6	995·8	995·8	995·8	996·0	996·0	996·3	996·3	996·2	995·9	995·5	995·2	994·9	995·0	995·1	995·0	994·8	994·7	994·4	995·5
25	994·4	994·2	994·1	993·9	993·8	993·9	993·7	993·8	993·1	992·8	992·5	992·0	991·7	991·9	992·4	992·5	992·4	992·3	992·5	992·4	992·3	991·8	991·3	990·8	**992·8**
26	990·4	990·4	990·3	990·3	990·4	990·5	990·9	991·8	992·4	993·1	993·8	994·4	994·8	995·0	995·2	995·5	995·9	996·6	997·3	998·1	998·4	998·6	998·8	998·8	994·1
27	998·8	998·9	998·8	998·6	998·5	998·2	997·7	997·8	997·4	997·4	997·6	998·1	998·4	998·5	999·2	999·6	000·4	001·4	002·0	003·1	003·7	004·3	004·8	005·1	999·8
28	005·2	005·2	005·2	005·2	005·4	005·7	006·0	006·4	006·9	007·4	007·7	008·0	008·5	009·0	009·8	010·3	010·9	011·6	011·8	012·5	012·9	013·2	013·4	013·6	008·6
29	013·9	014·0	013·9	013·9	014·0	014·1	014·5	014·7	014·7	014·7	014·6	014·6	014·6	014·4	014·5	014·2	014·0	014·1	014·0	014·1	014·1	013·7	013·5	013·0	014·2
30	012·4	011·7	010·7	009·9	009·4	008·9	008·8	008·5	007·6	007·4	007·3	006·6	006·9	006·3	005·9	005·8	005·7	005·6	005·2	004·8	004·5	004·1	003·3	002·7	007·3
Mean (Station level)	**1007·77**	1007·63	1007·48	1007·38	1007·37	1007·47	1007·61	1007·65	1007·55	1007·54	1007·53	1007·43	1007·28	1007·00	1006·83	**1006·77**	1006·78	1006·94	1007·05	1007·25	1007·31	1007·28	1007·23	1007·24	1007·32
Mean (Sea level)	**1011·00**	1010·86	1010·71	1010·62	1010·61	1010·70	1010·83	1010·86	1010·75	1010·74	1010·73	1010·63	1010·47	1010·19	1010·02	**1009·96**	1009·98	1010·14	1010·26	1010·47	1010·53	1010·50	1010·46	1010·47	1010·53
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

73. Aberdeen : H_b (height of barometer cistern above M.S.L.) = 26·0 metres. **May, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Station Level — Day.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	002·0	001·1	000·5	999·8	999·4	999·0	998·7	998·6	998·1	997·7	997·3	997·1	997·0	997·1	997·8	998·1	998·5	999·0	999·3	999·8	000·4	000·8	001·1	001·3	999·2
2	001·5	001·6	001·7	001·6	001·6	001·9	002·1	002·7	003·0	003·5	003·4	003·3	003·6	003·6	003·3	003·5	003·6	003·9	004·0	004·2	004·1	004·2	004·3	004·2	003·0
3	003·9	003·8	003·8	003·6	003·5	003·6	004·0	004·0	003·9	004·1	004·1	003·9	003·7	003·5	003·2	003·0	003·0	002·5	002·3	002·0	001·9	001·4	000·5	999·5	003·1
4	998·9	997·9	996·4	995·4	993·8	992·7	991·8	991·7	991·3	990·9	990·9	991·1	991·3	991·4	991·4	991·5	991·7	992·0	992·6	993·0	993·4	993·9	994·3	994·7	**993·2**
5	995·0	995·5	996·2	997·1	997·8	998·4	999·2	999·7	000·5	000·9	001·5	002·2	002·8	003·3	004·0	004·8	004·9	005·3	005·9	006·2	006·5	006·8	007·3	007·6	001·8
6	008·2	008·7	008·6	008·3	008·4	008·9	009·9	010·6	010·8	011·4	011·8	012·2	012·3	012·2	012·3	012·2	012·5	012·7	013·1	013·2	013·9	014·1	014·2	014·2	011·3
7	014·0	013·8	013·8	013·7	013·6	013·6	013·7	013·6	013·4	013·4	013·2	013·3	013·3	012·8	012·2	012·2	012·1	012·3	012·2	012·4	012·5	012·5	012·6	012·7	013·1
8	013·1	013·3	013·5	013·9	014·1	014·8	015·4	015·7	016·5	017·0	017·7	017·9	018·4	018·8	018·8	019·2	019·7	020·3	020·8	021·0	021·2	021·5	021·7	021·8	017·6
9	021·9	021·9	021·9	021·7	021·7	021·9	021·8	021·9	021·6	021·7	021·5	021·4	021·3	020·7	020·4	020·0	019·6	019·1	019·0	018·8	018·5	018·0	017·8	017·3	**020·6**
10	016·9	016·0	015·2	014·6	013·9	013·2	012·8	012·3	011·5	011·1	010·4	010·0	009·5	009·2	008·5	007·7	007·5	007·4	007·2	006·8	006·6	005·8	005·2	004·8	010·4
11	004·3	004·1	003·5	002·6	002·1	001·5	001·0	000·8	000·4	000·5	000·2	000·2	000·2	999·9	999·8	000·0	000·7	001·8	002·5	004·2	004·9	005·9	006·5	007·1	002·2
12	007·2	007·6	007·6	007·8	007·9	008·6	009·2	009·6	009·7	009·9	009·9	009·8	010·0	010·0	009·7	009·5	009·5	009·5	009·6	009·8	009·8	009·7	009·4	008·8	009·1
13	008·5	007·8	006·2	007·0	006·5	006·1	005·9	006·2	005·6	005·3	005·0	004·2	003·0	003·1	003·1	002·7	002·1	001·2	001·1	000·5	999·7	999·3	998·8	998·2	003·9
14	997·7	997·2	996·9	996·2	995·6	995·2	995·0	994·8	995·1	995·2	995·1	994·7	994·6	994·8	994·3	994·3	994·3	994·3	994·7	995·3	995·6	995·5	995·7	996·1	995·4
15	996·1	995·9	995·9	995·9	995·8	996·1	996·4	996·6	997·0	996·8	996·8	996·7	996·6	996·6	996·5	996·5	996·5	996·5	996·7	996·9	997·1	997·0	997·2	997·3	996·5
16	997·4	997·3	997·2	997·2	997·5	998·0	998·2	998·4	998·2	998·1	998·2	998·1	998·0	997·8	998·0	998·2	998·6	998·5	998·8	999·0	999·1	999·4	999·5	999·4	998·2
17	999·2	999·2	999·2	999·3	999·5	999·4	999·4	999·5	999·7	999·4	999·3	999·3	999·1	999·0	998·9	998·6	998·6	998·6	998·7	999·3	999·4	999·3	999·1	999·1	999·2
18	999·1	998·9	998·8	998·6	998·7	998·9	999·2	999·3	999·4	999·5	000·0	000·5	000·6	001·1	001·3	002·0	002·5	003·2	003·5	004·3	005·0	005·4	005·9	006·3	001·2
19	007·1	007·5	007·6	007·9	008·6	009·4	010·2	010·4	011·0	011·6	012·2	012·7	013·1	013·4	013·8	014·2	014·3	015·0	015·4	015·7	016·1	016·2	016·4	016·5	012·1
20	016·6	016·5	016·3	016·3	016·4	016·6	016·7	016·7	016·3	016·0	016·0	015·6	015·5	015·3	015·2	014·7	014·8	014·8	014·4	014·6	014·7	014·5	013·9	013·7	015·6
21	014·0	013·9	013·8	013·8	013·8	013·7	013·6	013·7	013·8	013·9	014·2	014·3	014·4	014·5	014·3	014·3	014·3	014·6	014·7	014·9	014·9	014·7	014·4	014·2	014·2
22	014·0	013·6	013·4	013·1	013·2	013·0	012·7	012·3	012·2	012·0	011·9	011·8	011·7	011·8	012·0	011·9	011·8	012·0	011·7	011·1	011·1	010·6	009·9	009·4	012·1
23	009·2	009·0	008·7	008·5	008·2	008·1	008·1	008·2	008·2	008·5	008·4	008·5	008·6	008·6	008·6	008·7	008·5	008·8	008·9	008·9	008·7	008·4	008·2	007·7	008·5
24	007·3	006·4	006·3	005·9	005·6	005·5	005·1	004·8	004·0	003·4	003·2	001·9	000·8	000·4	000·1	999·6	998·4	997·8	998·1	999·4	000·5	001·8	002·7	003·2	002·7
25	003·9	005·1	005·7	006·3	006·6	006·8	007·5	008·1	008·3	008·8	009·3	009·6	010·0	010·2	010·7	010·6	010·5	010·7	010·8	010·9	011·5	011·8	012·1	012·5	008·9
26	012·7	012·8	013·0	013·5	013·9	014·2	014·8	015·1	015·4	015·7	016·1	016·1	016·5	016·5	016·5	016·5	016·6	016·4	016·8	017·0	017·6	017·6	017·7	017·9	015·6
27	017·8	017·7	017·6	017·5	017·6	017·7	018·0	018·0	017·9	017·8	017·7	017·4	017·2	017·1	017·0	016·7	016·3	015·9	015·9	016·1	016·0	015·6	015·5	015·4	001·7
28	015·0	014·3	013·8	013·3	013·1	012·7	012·7	012·0	011·5	011·0	010·5	009·6	009·1	008·5	008·4	007·7	007·2	006·8	006·1	005·2	004·6	004·0	003·5	002·7	009·6
29	002·5	001·5	000·9	001·2	001·3	001·6	002·2	002·6	002·7	002·7	003·4	003·6	004·3	004·4	004·4	004·4	004·5	004·7	004·9	005·1	006·0	006·2	005·8	005·2	003·5
30	005·1	005·2	005·3	005·1	005·2	005·5	005·9	006·2	006·3	006·5	006·6	006·4	006·3	006·2	006·4	006·5	006·5	006·5	006·6	006·8	007·6	007·6	007·4	007·4	006·3
31	007·5	007·4	007·2	007·1	007·2	007·3	007·2	007·5	007·4	007·8	007·6	007·2	007·1	007·0	006·9	006·7	006·4	006·3	006·5	006·6	006·7	006·8	006·5	006·3	007·0
Mean (Station level)	1007·02	1006·85	1006·66	1006·57	**1006·52**	1006·58	1006·72	1006·83	1006·80	1006·84	1006·88	1006·79	1006·77	1006·74	1006·70	1006·66	1006·65	1006·72	1006·86	1007·06	1007·28	**1007·30**	1007·26	1007·18	1006·84
Mean (Sea level)	1010·21	1010·05	1009·86	1009·78	**1009·72**	1009·77	1009·91	1010·00	1009·96	1010·01	1010·04	1009·95	1009·93	1009·89	1009·86	1009·82	1009·80	1009·89	1010·03	1010·24	1010·46	**1010·49**	1010·45	1010·37	1010·02

74. Aberdeen : H_b = 26·0 metres. **June, 1931.**

Station Level — Day	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	006·2	006·1	006·1	006·2	006·3	006·4	006·6	006·9	007·2	007·7	007·9	008·3	008·8	009·0	009·4	009·6	009·8	010·3	010·6	011·1	011·7	012·0	012·2	012·5	008·6
2	012·6	012·8	012·9	013·0	013·1	013·4	013·9	014·4	014·4	014·5	014·8	014·7	014·9	015·0	015·3	015·4	015·6	015·7	015·9	015·9	016·1	016·2	016·2	016·3	014·6
3	016·5	016·8	016·8	017·1	017·7	017·9	018·5	019·0	019·3	019·4	019·8	020·0	020·1	020·2	020·4	020·4	020·2	020·1	019·9	019·7	019·9	019·7	019·7	019·4	019·0
4	019·1	018·7	018·1	018·0	018·0	018·0	018·3	018·3	018·8	019·1	019·5	020·0	020·2	020·5	020·7	021·0	021·1	021·2	021·3	021·6	022·0	022·2	022·0	022·1	019·9
5	022·3	022·2	022·0	021·9	021·9	022·0	021·9	021·6	021·5	021·4	021·3	021·2	020·9	020·6	020·2	019·7	019·2	018·7	018·6	018·4	018·3	018·0	017·5	016·8	020·5
6	016·1	015·5	014·8	014·3	013·8	013·3	013·0	012·6	012·2	012·0	011·8	011·5	010·9	010·4	010·0	009·4	009·2	008·7	008·4	008·1	007·9	007·5	007·0	006·5	011·3
7	006·3	005·7	005·4	005·0	004·7	004·4	004·0	003·9	003·7	003·5	003·5	003·5	003·4	003·3	003·2	003·1	003·0	002·9	003·0	002·9	003·0	003·0	002·9	002·7	003·8
8	002·5	002·5	002·4	002·3	002·4	002·6	002·9	003·2	003·6	003·9	004·1	004·6	004·8	005·0	005·3	005·3	005·4	005·6	005·8	006·0	006·3	006·1	006·1	005·7	004·3
9	005·3	005·0	004·6	004·3	004·2	004·0	003·9	003·8	004·1	004·4	004·2	004·1	003·9	003·6	003·5	003·4	003·3	002·9	002·7	002·3	002·2	001·8	001·4	001·2	003·6
10	000·8	000·6	000·7	001·0	001·1	001·3	001·5	001·8	001·8	002·0	001·9	001·8	001·6	001·4	001·2	001·0	000·5	000·0	999·7	999·4	999·0	998·6	998·4	998·4	000·7
11	998·2	998·0	997·9	998·3	998·5	998·9	999·4	999·8	000·5	001·1	002·2	002·8	003·7	004·5	005·4	006·3	006·9	007·7	008·3	009·2	009·8	010·4	010·6	010·9	003·5
12	010·9	011·1	011·3	011·4	011·7	012·0	012·2	012·3	012·3	012·4	012·6	012·7	012·9	013·2	013·3	013·4	013·9	014·2	014·8	015·2	015·5	015·6	015·8	016·1	013·1
13	016·5	016·6	016·6	016·8	016·8	017·1	017·2	017·2	017·4	017·5	017·2	017·2	017·1	016·5	016·3	015·9	015·9	015·6	015·4	015·2	014·7	014·4	014·3	013·2	016·3
14	012·7	012·0	011·1	010·1	009·4	008·7	007·7	007·1	007·1	006·3	005·5	005·0	004·2	003·3	002·7	002·0	000·9	999·0	998·4	997·8	996·4	994·9	992·4	990·2	004·0
15	988·7	987·1	986·9	987·6	988·3	989·4	991·0	992·4	994·5	995·6	996·5	997·7	998·7	000·0	001·2	001·7	002·1	002·6	003·0	003·5	003·5	003·7	003·7	003·7	**996·5**
16	003·6	002·8	002·5	002·1	001·8	001·4	001·2	001·0	000·7	000·7	000·7	000·8	000·9	000·7	001·1	001·9	002·0	002·3	002·4	002·8	003·3	003·7	003·7	003·7	002·0
17	003·5	003·4	003·0	002·9	002·7	002·6	002·1	001·7	001·5	001·1	000·3	000·0	999·7	999·7	000·0	999·4	999·0	998·7	998·2	998·0	998·0	998·0	998·0	997·8	000·5
18	997·4	997·3	997·2	997·3	997·4	997·5	997·5	997·6	997·6	997·7	997·6	997·4	997·5	998·1	998·5	998·5	998·7	998·9	998·9	999·6	000·2	000·9	001·2	001·7	998·3
19	002·0	002·3	002·7	003·1	003·8	004·3	005·0	005·5	006·2	006·8	007·6	008·7	009·3	010·2	010·7	011·4	011·8	012·4	012·9	013·5	013·9	014·3	014·4	014·8	008·4
20	014·9	015·2	014·9	014·9	015·3	015·4	015·3	015·4	015·4	015·2	015·0	014·2	013·8	013·4	012·6	012·1	011·4	011·0	010·9	010·6	010·0	009·4	008·9	008·4	013·2
21	008·1	007·4	006·5	006·0	005·6	005·9	006·1	006·3	006·4	006·6	006·7	006·6	006·3	006·0	005·7	005·3	005·6	005·5	005·9	005·9	006·2	006·0	005·8	005·2	006·2
22	004·6	004·2	004·1	005·0	005·3	006·0	006·9	007·7	008·0	008·3	008·8	009·1	010·1	010·2	010·5	010·8	011·1	011·8	012·0	012·4	012·9	013·3	013·2	013·2	009·0
23	013·3	013·3	013·1	013·0	013·0	012·9	012·6	012·5	012·8	012·8	012·9	012·9	012·9	013·1	013·6	013·7	013·9	014·5	015·0	015·5	016·1	016·6	017·1	017·7	013·9
24	017·8	017·9	018·2	018·6	019·1	019·5	020·1	020·4	021·0	021·2	021·8	022·0	022·3	022·5	023·0	023·1	023·1	023·4	024·0	024·4	024·6	024·7	024·7	024·7	021·6
25	024·5	024·3	024·2	024·3	024·4	024·5	024·2	024·3	024·2	024·2	024·1	024·0	023·5	023·6	022·8	022·5	022·1	022·0	021·9	022·0	021·7	021·6	021·4	020·8	**023·3**
26	020·5	020·2	019·9	019·4	019·3	018·9	018·7	018·4	017·9	017·7	017·8	017·8	017·6	017·7	017·8	017·8	017·6	017·7	017·5	017·2	017·1	016·9	016·4	015·5	018·2
27	015·1	014·4	014·1	014·1	014·5	014·6	014·9	015·0	015·1	015·3	015·5	015·8	016·4	016·6	016·7	016·6	016·5	016·8	016·8	016·8	017·0	016·9	016·8	016·8	015·8
28	016·5	016·4	016·3	016·2	016·5	016·8	017·0	016·9	017·0	016·8	016·9	016·5	016·1	015·7	015·2	014·8	013·9	013·5	013·2	013·0	012·7	012·5	012·4	012·3	015·3
29	012·2	012·2	012·6	012·9	013·9	014·2	014·7	015·5	016·0	016·4	016·7	017·1	017·5	017·7	018·0	018·6	019·3	020·0	020·2	020·3	020·8	020·9	020·9	020·9	016·9
30	020·9	020·8	020·4	020·4	020·5	020·6	020·7	020·5	020·3	019·9	019·6	019·6	019·3	019·1	018·8	018·4	018·2	017·9	017·6	017·5	017·4	017·1	016·6	016·0	019·2
Mean (Station level)	1010·32	1010·09	**1009·91**	1009·92	1010·03	1010·15	1010·30	1010·43	1010·62	1010·72	1010·83	1010·92	1010·98	1011·03	1011·10	1011·08	1011·04	1011·05	1011·11	1011·19	**1011·27**	1011·23	1011·06	1010·84	1010·71
Mean (Sea level)	1013·50	1013·28	**1013·10**	1013·11	1013·22	1013·32	1013·47	1013·59	1013·77	1013·87	1013·98	1014·07	1014·13	1014·18	1014·25	1014·24	1014·19	1014·21	1014·27	1014·36	**1014·45**	1014·41	1014·24	1014·02	1013·88
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

75. Aberdeen : H_b (height of barometer cistern above M.S.L.) = 26·0 metres. **July, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Station Level — Day.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	015·6	015·0	014·5	013·9	013·8	013·6	013·2	012·7	012·1	011·6	011·1	010·7	010·0	009·3	008·6	007·7	006·7	005·9	005·6	004·8	004·2	003·9	003·5	003·1	009·9
2	002·3	001·6	000·7	999·9	999·0	998·0	997·8	997·7	997·0	996·5	996·2	996·0	996·1	996·2	996·2	996·1	996·2	996·3	997·2	997·4	997·6	997·8	997·9	998·2	997·9
3	998·1	998·2	997·7	997·7	997·1	997·1	996·5	995·8	995·3	995·0	994·4	994·5	994·2	993·6	993·3	993·4	993·2	993·5	993·6	993·8	993·8	994·0	994·1	994·2	995·2
4	994·0	993·7	993·2	992·8	992·8	993·0	993·4	993·6	993·8	994·2	994·5	994·9	995·2	995·5	996·1	996·7	997·2	998·1	998·6	999·2	000·0	000·6	001·1	001·7	995·8
5	001·9	002·2	002·3	002·5	002·8	003·1	003·6	003·6	003·8	004·4	004·1	004·3	004·8	005·0	005·2	005·6	005·6	005·5	005·6	006·2	006·5	006·6	006·8	007·0	004·4
6	006·9	006·8	006·6	006·8	006·6	006·6	006·9	007·0	006·8	006·5	006·2	005·5	005·3	004·6	004·7	003·9	003·8	003·8	004·0	003·9	004·1	004·3	004·0	003·9	005·5
7	004·1	004·0	003·8	003·9	003·9	003·7	003·7	003·8	003·7	003·8	003·8	004·1	003·8	003·8	003·7	003·3	003·5	003·6	003·4	003·5	003·7	003·6	003·4	002·9	003·7
8	002·5	002·4	002·2	002·2	002·0	001·9	001·9	001·4	000·9	000·8	000·7	001·0	001·0	000·8	000·6	000·4	000·4	000·3	999·9	999·8	999·8	999·5	999·3	998·7	000·9
9	998·5	998·3	998·2	998·3	998·1	998·0	998·5	998·7	999·1	999·5	999·4	999·6	999·9	000·2	000·7	001·2	001·5	002·0	003·1	003·6	004·1	004·2	004·1	004·1	000·4
10	003·9	004·0	004·2	004·3	004·4	004·8	005·4	005·6	006·0	006·4	006·8	007·0	007·2	007·2	007·3	007·4	007·9	008·4	008·7	009·1	009·5	009·7	009·8	010·0	006·7
11	010·2	010·1	010·1	010·2	010·3	010·4	010·5	010·7	010·6	010·8	010·9	011·0	010·8	010·7	010·8	010·7	010·5	010·4	010·3	010·2	010·1	010·2	009·7	009·4	010·4
12	009·2	008·6	007·9	007·5	007·1	006·4	006·2	005·7	005·0	004·3	003·4	002·7	002·1	001·5	001·4	000·7	000·4	999·9	999·4	999·2	999·0	998·5	997·7	997·2	003·2
13	996·7	996·3	996·1	995·8	995·7	995·8	996·2	996·4	996·6	997·3	997·6	997·6	997·5	997·8	997·8	997·8	997·9	998·3	998·3	998·5	998·7	998·8	999·0	999·3	997·4
14	999·2	999·1	999·1	999·1	999·3	999·2	999·4	999·4	999·5	999·6	999·7	999·7	999·9	999·8	999·8	999·7	999·6	999·6	999·7	999·8	999·9	000·2	000·6	000·6	999·6
15	000·7	000·7	000·7	000·8	000·9	001·0	001·5	001·6	001·8	002·0	002·1	002·3	002·3	002·4	002·3	002·5	002·5	002·4	002·8	003·3	003·7	004·0	004·1	004·0	002·1
16	004·1	004·2	004·4	004·7	004·8	004·9	005·2	005·4	005·4	005·5	005·4	005·7	006·0	006·3	006·2	006·0	005·7	005·5	005·5	005·6	005·4	005·4	005·2	005·0	005·3
17	004·7	004·4	004·1	003·5	003·4	003·2	003·1	003·3	003·4	003·3	003·1	002·8	002·3	002·0	001·3	001·0	000·6	999·8	999·3	998·7	998·4	998·2	998·0	997·9	001·8
18	997·7	997·5	997·3	997·3	997·6	997·7	998·3	998·9	999·4	999·8	000·1	000·2	000·4	000·7	000·8	000·7	000·7	000·5	000·6	000·8	000·8	000·8	000·7	000·6	999·5
19	000·5	000·3	000·1	000·1	000·2	000·3	999·9	000·0	000·2	000·3	000·2	000·3	000·4	000·3	000·3	000·9	001·4	001·8	002·4	002·9	003·4	003·8	004·2	004·8	001·1
20	005·2	005·4	005·7	006·1	006·5	006·8	007·1	007·0	007·6	008·5	009·1	009·2	009·6	009·7	009·9	010·2	010·3	010·3	010·8	011·2	011·4	011·6	011·6	011·7	008·7
21	011·6	011·5	011·4	011·3	011·4	011·5	011·8	011·9	011·9	011·7	011·6	011·5	011·6	011·3	011·0	010·3	010·0	009·5	009·3	008·8	008·2	007·6	006·9	006·1	**010·5**
22	005·1	004·5	004·1	003·8	004·0	004·0	004·0	003·9	003·8	004·0	003·9	004·0	003·5	003·1	002·8	002·6	001·8	001·3	000·3	000·2	999·8	999·1	999·4	999·2	002·7
23	999·6	999·6	000·0	000·6	000·7	000·9	000·9	001·2	001·4	001·9	002·2	002·4	002·8	003·0	003·3	003·7	003·7	004·0	004·1	004·3	004·7	005·1	005·3	005·1	002·4
24	005·2	005·0	004·9	004·8	004·9	004·9	004·8	004·6	004·4	003·9	003·6	003·3	003·1	002·8	002·4	001·8	001·4	001·1	001·0	000·6	000·5	000·2	000·1	999·8	003·0
25	999·2	999·0	998·6	998·3	998·2	998·1	998·1	997·8	997·6	997·8	997·5	997·2	997·1	996·6	996·4	995·7	995·4	995·3	995·1	994·8	994·6	994·3	994·1	993·9	996·8
26	993·6	993·0	992·8	992·8	992·6	992·9	992·9	993·0	993·1	993·1	993·1	993·2	993·5	993·2	993·1	992·8	992·5	992·3	992·1	992·0	991·8	991·6	991·5	990·9	992·7
27	990·7	990·6	990·1	990·0	990·1	990·2	990·3	990·5	990·6	990·9	991·0	991·0	991·0	991·1	991·2	991·1	991·0	990·8	990·9	991·1	991·4	991·6	991·8	992·2	**990·9**
28	992·6	992·8	992·9	993·0	993·4	993·7	994·5	994·7	995·0	995·1	995·5	995·9	996·8	997·4	998·5	998·9	999·5	000·4	001·1	001·7	002·2	003·0	003·6	003·6	997·1
29	004·6	005·2	005·3	005·2	005·3	005·3	005·2	005·0	004·6	004·0	003·7	003·0	002·5	002·3	001·5	001·1	000·5	000·3	999·7	999·3	999·2	999·1	998·9	998·7	002·6
30	998·6	998·5	998·3	998·3	998·4	998·8	999·4	999·5	999·8	000·0	000·2	000·3	000·4	001·2	002·2	002·5	002·7	003·0	003·5	003·8	004·4	004·5	004·6	004·9	001·0
31	005·0	005·0	005·0	005·1	005·2	005·4	005·9	006·3	006·4	006·5	006·5	006·7	006·9	007·1	007·3	007·3	007·4	007·5	007·8	008·3	008·6	008·9	009·0	009·2	006·8
Mean (Station level)	**1001·99**	1001·85	1001·69	1001·63	**1001·63**	1001·65	1001·81	1001·83	1001·83	1001·90	1001·86	1001·86	1001·87	1001·82	1001·83	1001·73	1001·66	1001·66	1001·73	1001·82	1001·92	1001·96	1001·94	1001·87	1001·81
Mean (Sea level)	**1005·12**	1004·98	1004·82	1004·76	**1004·76**	1004·78	1004·93	1004·94	1004·93	1005·01	1004·96	1004·96	1004·97	1004·92	1004·93	1004·83	1004·76	1004·77	1004·84	1004·93	1005·04	1005·08	1005·06	1004·99	1004·92

76. Aberdeen : H_b = 26·0 metres. **August, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Station Level	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	009·4	009·6	009·7	009·9	010·4	010·7	011·1	011·5	011·7	011·8	012·1	012·3	012·5	012·7	012·8	013·1	013·2	013·3	013·8	014·1	014·6	014·9	015·1	015·2	012·2
2	015·4	015·4	015·7	016·3	016·9	017·3	017·9	018·2	018·7	019·4	020·0	020·5	020·9	021·1	021·6	021·9	022·2	022·8	023·2	024·2	024·6	025·0	025·4	025·6	020·2
3	026·0	026·2	026·4	026·5	026·7	027·2	027·7	028·0	027·8	027·8	027·9	028·0	028·0	028·3	028·5	028·3	028·1	028·3	028·4	028·5	028·6	029·0	029·1	029·2	027·8
4	029·0	028·7	028·5	028·4	028·6	028·6	028·9	028·9	028·8	028·9	028·9	028·6	028·4	028·2	027·9	027·6	027·5	027·0	026·8	026·8	026·6	026·1	026·0	025·7	**028·0**
5	025·2	024·6	023·8	023·4	023·0	022·8	022·4	021·7	021·2	020·7	019·9	019·4	019·0	018·2	017·4	017·0	016·2	015·5	015·2	014·6	014·2	013·6	013·0	012·7	019·2
6	012·0	011·0	010·5	010·3	010·2	010·0	009·7	009·1	009·0	008·8	008·8	008·7	008·4	007·9	007·5	007·5	007·4	007·3	007·5	007·6	007·7	007·7	007·7	007·6	008·9
7	007·7	007·4	007·3	007·1	006·5	006·3	006·2	006·1	005·9	006·0	005·8	005·5	005·2	004·9	004·5	004·5	004·3	004·2	004·3	004·5	004·7	004·5	004·6	004·5	005·6
8	004·0	003·4	002·9	002·5	002·1	002·0	002·1	003·1	004·0	004·4	004·5	004·7	004·8	005·0	005·1	005·3	005·6	005·8	006·1	006·3	006·4	006·6	006·7	007·1	004·5
9	006·8	006·7	006·7	006·8	006·8	007·2	007·8	008·2	008·6	008·8	009·2	009·4	009·7	009·9	009·9	010·1	010·1	010·4	010·5	010·5	010·4	010·1	009·9	009·3	008·9
10	008·9	008·4	007·8	007·7	007·6	007·9	008·1	008·4	008·9	009·4	010·1	010·7	011·5	011·9	012·8	013·5	014·0	014·4	015·0	015·7	016·2	016·5	016·7	017·0	011·5
11	017·2	017·3	017·1	017·3	017·5	017·7	017·7	017·8	017·9	018·0	017·9	017·9	018·0	018·0	018·0	017·9	018·0	018·2	018·5	018·7	018·8	018·9	018·8	018·6	018·0
12	018·4	018·3	018·0	017·8	017·7	017·5	017·5	017·2	016·7	016·2	016·0	015·5	014·9	014·6	014·4	014·2	013·9	013·9	013·9	013·9	014·0	013·8	013·5	013·4	015·7
13	013·2	013·0	012·8	012·6	012·6	012·8	013·0	013·0	013·0	012·8	012·6	012·4	012·5	012·4	011·9	011·3	011·2	011·1	011·0	010·9	010·8	010·6	010·1	009·7	012·1
14	009·3	008·7	008·3	007·8	007·5	007·3	007·1	006·7	006·4	006·1	005·7	005·4	005·0	004·3	004·1	003·6	003·1	002·6	002·4	002·3	001·9	001·4	000·7	000·0	005·1
15	999·5	998·8	998·3	997·7	997·5	997·2	996·8	996·7	996·5	996·0	995·9	995·9	995·7	995·6	995·4	995·3	995·2	994·9	994·8	994·9	995·0	995·0	994·9	994·6	996·3
16	994·4	994·2	993·7	993·5	993·4	993·5	993·5	993·5	993·3	993·3	993·2	993·0	992·8	992·8	992·7	992·4	992·4	992·6	992·7	992·8	992·9	992·8	992·8	992·7	993·2
17	992·6	992·5	992·4	992·4	992·7	993·0	993·6	994·1	994·4	994·8	995·3	995·6	996·1	996·3	996·9	997·3	997·8	998·3	998·6	999·1	999·5	999·7	000·0	999·9	995·8
18	000·0	000·1	000·1	000·1	000·2	000·4	000·7	001·1	001·4	001·7	002·1	002·7	002·9	003·1	003·3	003·4	003·5	003·3	003·6	003·9	004·1	004·0	003·9	003·8	002·1
19	003·7	003·3	002·8	002·2	002·0	002·1	001·9	001·7	001·0	000·8	000·4	999·9	999·2	998·5	997·4	996·6	995·9	995·5	994·7	992·5	992·7	992·4	991·8	991·1	998·6
20	989·8	988·9	988·2	987·8	987·5	987·3	987·4	987·3	987·3	987·2	987·5	987·8	988·0	987·9	988·2	988·5	989·0	989·7	990·7	991·3	991·7	992·0	992·5	993·0	**989·0**
21	993·5	994·1	994·6	995·3	995·9	996·5	997·5	998·4	999·2	000·4	001·2	001·7	002·2	002·6	003·3	003·8	004·2	004·8	005·3	005·8	006·3	006·6	006·8	007·0	000·8
22	007·1	007·1	007·1	007·0	007·1	007·2	007·0	007·0	007·0	007·3	007·1	007·1	006·9	007·0	007·0	006·7	006·7	006·7	006·8	007·0	007·0	007·0	007·1	007·0	007·0
23	006·8	006·7	006·6	006·5	006·5	006·4	006·4	006·6	006·9	006·7	006·9	006·9	006·9	007·0	007·0	007·1	007·1	007·2	007·4	007·6	008·0	008·1	008·0	008·0	007·0
24	008·0	008·0	007·4	007·2	007·1	007·1	006·9	006·9	007·0	007·5	007·7	007·7	008·0	007·9	007·5	007·6	007·6	007·6	007·9	008·4	008·7	008·8	009·3	009·5	007·8
25	009·6	009·8	009·8	010·0	010·2	010·7	011·1	011·4	011·8	012·3	012·7	013·4	014·2	014·3	014·4	014·7	015·2	015·9	016·5	017·0	017·5	017·9	018·6	018·9	013·5
26	019·1	019·6	019·9	020·4	020·7	021·5	022·2	022·6	023·2	023·7	023·9	024·2	024·5	024·6	024·8	024·8	024·7	024·7	025·0	025·2	025·6	025·7	025·7	025·8	023·3
27	025·6	025·6	025·4	025·2	025·3	025·7	025·7	025·8	025·7	025·8	025·6	025·3	025·4	025·3	025·2	025·0	024·7	024·8	025·0	025·2	025·5	025·5	025·5	025·6	025·4
28	025·5	025·2	025·1	025·2	025·4	025·5	025·7	025·8	025·8	025·7	025·7	025·5	025·5	025·1	025·2	025·1	024·9	024·9	024·7	024·8	024·8	024·9	025·0	025·1	025·3
29	025·1	024·7	024·3	024·1	024·3	024·2	024·4	024·5	024·7	024·6	024·6	024·6	024·7	024·4	024·2	024·2	024·1	024·1	024·2	024·2	024·3	024·3	024·2	024·0	024·4
30	023·9	023·8	023·6	023·3	023·4	023·3	023·5	023·5	023·5	023·2	023·1	022·9	022·8	022·2	021·8	021·2	020·9	020·7	020·5	020·5	020·4	020·3	019·9	019·5	022·3
31	019·1	019·0	018·5	018·2	018·1	018·2	018·3	018·2	017·8	017·4	017·2	016·9	016·1	016·0	015·4	015·1	014·7	014·5	014·5	014·4	014·4	014·4	014·2	014·1	016·6
Mean (Station level)	1011·15	1010·97	1010·75	**1010·66**	1010·69	1010·81	1010·96	1011·06	1011·13	1011·21	1011·27	1011·29	1011·31	1011·23	1011·16	1011·12	1011·08	1011·13	1011·27	1011·39	1011·55	**1011·55**	1011·53	1011·46	1011·15
Mean (Sea level)	1014·33	1014·15	1013·93	**1013·84**	1013·87	1013·99	1014·13	1014·23	1014·29	1014·36	1014·42	1014·44	1014·46	1014·37	1014·31	1014·26	1014·22	1014·28	1014·43	1014·56	1014·71	**1014·73**	1014·71	1014·63	1014·31
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

77. Aberdeen : H_b (Height of barometer cistern above M.S.L.) = 26·0 metres. **September, 1931.**

Hour. G.M.T. / Station Level, Day.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	013·9	013·6	012·8	012·6	012·3	012·2	011·9	011·8	011·1	010·8	010·6	010·2	010·0	009·3	009·1	008·7	008·2	007·7	007·5	007·4	006·9	006·0	005·7	005·3	010·0
2	004·3	003·4	002·7	002·3	001·9	002·0	002·0	002·2	002·2	002·3	002·5	002·5	002·4	002·3	001·7	001·4	001·2	000·9	000·7	000·6	000·4	000·3	000·3	000·4	**001·9**
3	000·4	000·4	000·4	000·3	000·4	000·7	000·8	001·0	001·6	001·8	002·0	002·2	002·6	002·6	002·6	002·8	002·8	003·0	003·3	003·6	003·5	003·7	003·6	003·5	002·0
4	003·5	003·4	003·3	003·1	003·1	003·2	003·0	003·1	003·0	003·0	002·9	002·4	002·0	002·0	001·7	001·7	001·9	001·9	002·3	002·8	002·8	002·9	003·2	003·6	002·7
5	003·3	003·5	003·6	003·7	004·0	004·5	004·7	005·1	005·7	006·3	006·6	006·9	007·3	007·9	008·2	008·6	009·1	009·9	010·5	010·8	011·3	011·6	011·7	012·0	007·2
6	012·1	012·1	012·1	011·9	011·8	011·9	012·5	012·7	013·0	013·1	013·2	013·4	013·6	013·8	013·9	014·0	014·1	014·4	014·7	014·7	014·8	015·2	015·1	015·1	013·4
7	015·3	015·3	015·3	015·4	015·5	015·7	015·8	016·3	016·4	016·7	016·8	017·0	017·1	017·0	016·8	016·8	016·9	016·9	017·3	017·2	017·0	016·9	016·7	016·5	016·4
8	016·0	015·5	015·0	014·2	013·9	013·7	013·3	013·2	013·3	013·5	013·6	013·2	012·8	012·2	011·9	012·0	011·7	011·4	011·7	012·2	012·5	012·4	012·5	012·5	013·2
9	012·8	012·9	012·9	012·9	013·0	013·3	013·6	013·9	014·2	014·4	014·5	014·7	015·1	015·2	015·3	015·3	015·5	015·8	016·0	016·3	016·6	016·8	016·9	017·1	014·7
10	017·2	017·1	017·1	017·1	017·2	017·6	018·0	018·2	018·4	018·7	018·8	019·0	018·9	018·8	018·8	018·8	018·8	018·8	018·8	018·9	019·0	018·9	018·5	018·3	018·3
11	017·9	017·2	016·8	016·3	015·8	015·2	014·6	014·4	014·0	013·6	013·5	013·5	013·0	013·4	013·2	013·1	013·0	013·3	013·3	013·3	013·1	013·0	012·8	012·8	014·3
12	012·8	012·8	012·7	012·5	012·7	012·9	013·8	013·9	014·7	015·2	015·7	016·1	016·8	017·1	017·4	017·8	018·7	019·2	019·8	020·4	020·9	021·1	021·6	021·4	016·4
13	021·3	021·4	021·7	021·9	021·9	021·9	022·2	022·1	021·9	022·1	022·3	022·3	022·4	022·5	022·4	022·1	022·2	022·8	022·9	023·0	022·9	022·6	022·7	022·5	022·2
14	022·2	022·0	021·6	021·1	020·7	020·6	020·6	020·5	020·5	020·5	020·4	020·2	020·0	019·8	019·4	019·0	019·1	019·3	019·6	019·8	019·9	020·4	020·6	020·9	020·4
15	020·9	021·0	021·0	020·9	021·0	021·6	022·2	022·8	023·4	023·6	023·8	024·1	024·2	024·3	024·4	024·2	024·0	023·6	023·6	023·7	023·7	023·7	023·7	023·5	023·0
16	023·3	023·1	022·8	022·6	022·2	022·2	022·1	021·5	021·0	020·6	020·3	019·8	019·2	018·6	017·6	016·8	016·0	015·3	014·8	014·1	013·8	013·5	012·9	012·6	018·8
17	012·2	011·7	011·3	011·0	011·0	011·1	011·3	011·5	011·9	011·8	012·2	012·4	013·0	013·1	013·4	013·7	014·0	014·8	015·2	015·8	016·1	016·3	016·4	016·6	013·2
18	016·9	016·9	016·7	016·6	017·1	017·6	017·8	018·1	018·3	018·6	018·9	018·8	018·9	019·0	019·0	019·2	020·0	020·8	021·4	021·6	022·1	022·1	022·4	022·5	019·1
19	022·8	023·0	023·2	023·4	023·6	024·4	025·3	025·7	026·5	026·6	027·1	027·1	027·3	027·5	027·7	028·0	028·5	028·8	029·4	029·7	029·9	029·9	030·0	030·1	026·7
20	030·0	029·8	030·0	029·8	029·8	029·8	029·9	029·9	029·9	029·7	029·5	029·7	029·8	029·7	029·5	029·5	029·7	030·0	030·3	030·7	030·7	030·9	030·9	031·1	030·0
21	031·5	031·5	031·3	031·1	031·2	031·8	032·1	032·2	032·6	032·5	032·4	032·3	032·2	032·1	031·9	032·1	032·3	032·3	032·1	032·1	032·0	032·1	031·7	031·3	031·9
22	031·0	030·8	030·4	029·8	029·4	029·4	028·6	028·1	027·8	027·7	027·7	027·3	027·0	026·9	026·4	026·2	026·5	026·7	026·8	026·8	026·7	026·7	026·9	026·8	027·9
23	026·7	026·5	026·5	026·4	026·6	026·8	027·0	027·2	027·6	028·0	028·0	028·1	027·9	027·8	027·8	028·0	028·2	028·9	029·4	029·3	029·4	029·4	029·3	029·4	027·9
24	029·6	029·6	029·6	029·9	030·2	030·4	030·9	031·1	031·4	031·6	031·9	031·9	031·7	031·7	031·5	031·7	032·0	032·2	032·8	033·0	033·4	033·4	033·4	033·3	031·5
25	033·4	033·4	033·2	033·3	033·5	033·7	033·9	034·4	034·7	034·6	034·6	034·4	034·0	033·6	033·4	033·7	033·8	034·4	034·7	034·9	034·8	035·0	035·1	034·9	**034·1**
26	034·4	034·3	034·1	033·9	034·0	034·2	034·6	034·7	034·7	034·6	034·3	034·2	033·8	033·5	033·3	032·8	032·2	032·2	032·0	031·6	031·0	030·6	030·0	029·8	033·2
27	028·9	027·9	027·6	026·5	025·8	025·6	025·1	024·4	024·0	023·5	022·8	022·6	021·8	021·6	020·8	020·4	020·2	019·7	019·5	019·4	019·3	019·2	018·7	018·4	022·9
28	018·3	017·9	017·7	017·5	017·5	017·6	017·6	017·7	017·9	018·0	018·0	017·9	017·7	017·5	017·3	017·6	017·7	017·9	018·0	017·9	017·8	017·6	017·4	017·1	017·7
29	016·9	016·5	016·2	015·6	015·2	015·0	014·6	014·5	014·1	013·6	013·3	012·7	012·1	011·6	010·9	010·5	010·1	009·7	009·3	008·8	008·3	007·9	007·5	006·8	012·4
30	006·2	006·0	005·4	004·9	004·6	004·2	004·0	004·1	003·5	003·3	003·1	002·8	002·1	002·0	001·2	000·7	000·5	000·2	000·2	000·1	000·0	999·4	999·2	999·0	002·5
Mean (Station level)	**1018·53**	1018·35	1018·17	1017·95	**1017·90**	1018·03	1018·13	1018·21	1018·31	1018·34	1018·38	1018·32	1018·22	1018·15	1017·95	1017·91	1017·96	1018·09	1018·26	1018·35	1018·35	1018·32	1018·25	1018·17	1018·20
Mean (Sea level)	**1021·75**	1021·57	1021·38	1021·16	1021·11	1021·24	1021·34	1021·41	1021·50	1021·53	1021·55	1021·50	1021·39	1021·32	1021·12	**1021·08**	1021·14	1021·28	1021·46	1021·55	1021·56	1021·52	1021·46	1021·38	1021·40

78. Aberdeen : H_b = 26·0 metres. **October, 1931.**

Station Level, Day.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	998·6	998·5	998·4	998·6	998·9	999·2	999·5	999·3	999·5	999·2	998·9	997·9	997·0	996·3	995·0	994·6	994·5	994·9	995·0	995·0	995·0	995·1	995·3	994·7	997·1
2	994·7	994·2	994·0	993·8	993·9	994·0	995·0	995·1	995·9	996·0	996·0	996·1	997·0	997·7	998·4	998·3	998·7	999·0	000·0	001·6	002·2	002·2	002·4	003·1	997·3
3	003·9	004·8	005·9	006·8	008·3	010·0	011·6	012·5	013·9	015·1	015·6	016·8	017·3	017·5	017·8	018·0	018·5	018·9	018·8	018·7	018·3	017·6	016·7	015·9	013·9
4	014·7	012·9	012·1	011·5	010·4	009·8	009·4	009·2	009·5	009·7	009·9	010·2	010·5	010·7	010·3	010·6	010·7	010·7	010·9	010·6	009·9	009·4	008·7	007·6	010·6
5	006·5	005·6	005·3	004·9	004·8	004·9	005·0	005·6	006·6	007·1	007·7	009·0	009·3	009·6	009·9	010·4	010·4	010·6	010·6	010·6	010·5	010·2	009·4	008·5	008·0
6	008·0	006·9	005·9	004·6	003·4	002·9	002·5	002·0	001·0	000·7	000·0	999·2	998·3	996·8	996·2	995·6	994·8	994·6	993·9	993·0	993·0	992·8	992·7	992·4	999·1
7	992·3	992·3	992·0	991·8	991·5	991·6	992·0	992·1	992·1	991·9	991·8	991·7	991·7	991·8	991·8	992·1	992·3	993·2	993·5	993·7	994·0	994·0	994·1	994·7	**992·5**
8	995·0	995·3	995·5	995·9	996·2	997·4	998·3	999·6	000·7	001·7	002·4	002·8	003·0	003·3	003·3	003·5	003·5	003·9	003·9	004·0	004·2	004·0	003·9	003·8	000·9
9	003·4	002·8	002·4	001·9	001·8	001·6	000·9	000·3	000·7	000·4	999·9	999·9	999·7	999·8	999·8	000·4	000·9	001·7	002·9	003·6	004·7	005·4	006·6	007·5	002·0
10	008·3	009·3	009·7	010·3	011·2	012·1	013·2	014·0	014·8	014·9	015·2	015·4	015·1	014·7	014·6	014·4	014·2	014·1	013·6	013·5	013·5	013·5	013·2	012·8	013·0
11	012·5	012·3	012·3	012·4	012·6	013·2	013·9	014·2	015·0	015·3	015·4	015·6	015·8	015·9	015·9	016·1	016·6	016·6	016·9	017·0	017·0	016·9	017·0	017·0	015·1
12	016·7	016·5	015·6	015·2	014·8	014·1	013·4	012·8	011·6	010·9	009·8	008·9	007·7	006·5	005·5	005·1	004·3	005·1	004·8	005·7	006·7	007·6	008·8	009·8	010·1
13	010·7	011·3	012·3	012·9	013·5	014·5	015·4	016·3	017·4	017·8	018·3	018·7	018·7	018·9	019·1	019·1	019·1	019·3	020·0	020·3	020·7	021·0	022·2	022·7	017·2
14	023·7	024·4	025·2	025·7	026·5	027·3	028·4	029·2	029·5	030·0	030·1	030·4	030·4	030·3	030·2	030·2	030·3	030·7	030·9	030·7	030·9	030·9	030·9	031·0	028·9
15	031·1	031·1	031·1	031·2	031·3	031·5	031·9	032·4	032·6	032·7	032·7	032·6	032·2	032·2	032·0	031·9	031·8	031·8	032·1	031·9	031·6	031·6	031·4	030·9	**031·8**
16	030·8	030·7	030·4	030·1	029·8	029·8	030·3	030·5	030·4	030·7	030·6	030·0	029·8	029·5	029·0	028·8	028·8	029·2	029·3	029·4	029·5	029·5	029·4	029·2	029·9
17	029·2	028·9	028·6	028·6	028·7	028·8	029·3	029·9	030·1	030·0	030·1	030·0	029·9	029·9	029·8	029·9	030·1	030·6	030·8	031·1	031·3	031·5	031·8	032·0	030·0
18	032·0	031·9	031·7	031·8	031·8	031·9	032·2	032·2	032·2	032·1	032·1	031·5	030·8	030·4	029·5	028·7	028·3	028·1	027·6	027·1	026·6	026·2	025·1	024·6	030·0
19	023·8	023·4	022·8	022·0	021·3	020·5	020·1	019·7	018·9	017·9	017·2	016·3	015·4	014·7	013·5	012·8	012·2	011·8	010·7	009·7	009·1	008·0	007·8	007·5	016·1
20	009·2	010·5	010·1	010·7	010·3	010·1	010·8	011·8	012·5	013·5	014·4	015·0	015·5	016·0	017·4	017·5	017·9	018·7	019·2	019·8	020·4	020·2	020·4	020·7	014·8
21	021·0	021·1	020·9	020·9	021·0	020·9	020·9	021·0	021·0	020·9	021·3	020·9	020·5	020·2	019·4	019·2	019·0	019·0	018·6	018·5	018·2	017·5	016·8	016·3	019·9
22	015·3	014·7	013·7	012·7	011·8	011·1	010·3	009·8	009·3	008·8	008·6	007·9	007·0	006·3	005·6	004·9	004·6	004·2	003·4	003·3	002·9	002·7	002·1	002·3	007·9
23	002·2	001·9	001·7	001·4	001·2	000·5	000·3	000·1	999·7	999·5	999·2	998·3	997·8	997·2	996·9	996·3	996·0	995·8	995·7	995·7	995·3	994·9	994·8	994·6	998·4
24	994·9	995·4	996·1	996·5	996·8	998·5	999·6	000·8	000·9	001·3	002·4	002·6	003·5	003·9	004·2	004·4	005·2	005·8	006·3	007·3	007·4	007·7	008·0	008·4	002·1
25	009·0	009·5	009·6	010·0	010·0	010·5	011·2	012·1	012·3	013·2	013·9	014·0	014·1	014·6	014·6	015·0	015·9	016·7	017·3	017·5	017·6	017·8	018·0	018·2	013·7
26	018·2	017·9	017·8	017·6	017·6	017·6	017·9	018·2	018·2	018·3	018·4	018·0	017·5	017·5	017·1	017·0	017·1	017·3	016·9	016·5	015·9	015·6	015·6	014·6	017·3
27	014·1	013·3	012·4	011·8	011·4	011·2	010·2	010·4	009·6	009·2	008·9	008·4	007·8	007·6	007·5	007·3	007·4	007·8	007·5	007·5	007·4	007·1	006·9	006·4	009·3
28	005·8	005·3	005·0	004·9	005·0	005·2	005·3	006·1	006·7	007·0	007·8	008·3	008·9	009·3	009·8	010·3	011·4	012·3	012·9	013·3	013·6	013·7	013·8	014·1	008·8
29	014·1	014·1	014·1	014·2	014·4	014·4	014·6	014·7	014·8	014·4	013·9	013·4	012·8	012·1	011·0	010·3	009·5	009·2	008·2	008·6	008·8	008·9	009·5	010·1	012·2
30	010·6	011·3	011·9	012·9	013·5	014·2	014·9	016·2	016·9	017·7	018·9	019·4	019·6	020·4	020·9	021·7	021·9	022·7	022·9	023·0	023·3	023·4	023·2	022·9	018·2
31	022·7	021·9	021·0	020·5	020·0	019·4	018·8	018·7	018·4	017·7	017·4	017·0	016·3	016·0	015·3	014·9	014·9	014·5	014·6	014·7	014·9	014·8	014·7	014·7	017·1
Mean (Station level)	1012·03	1011·94	1011·79	1011·75	**1011·73**	1011·89	1012·16	1012·48	1012·67	1012·76	**1012·86**	1012·78	1012·61	1012·50	1012·30	1012·24	1012·28	1012·54	1012·57	1012·67	1012·72	1012·64	1012·62	1012·55	1012·37
Mean (Sea level)	1015·24	1015·15	1015·00	1014·96	**1014·95**	1015·11	1015·38	1015·69	1015·87	1015·95	**1016·05**	1015·96	1015·79	1015·68	1015·48	1015·42	1015·46	1015·74	1015·77	1015·88	1015·93	1015·85	1015·83	1015·76	1015·57
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

79. Aberdeen : H_b (height of barometer cistern above M.S.L.) = 26·0 metres. **November, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day. (Station Level)	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	014·7	014·9	015·0	015·1	015·1	015·2	015·3	015·4	015·5	015·7	015·4	015·2	014·6	014·3	014·0	013·7	013·2	012·6	011·9	011·8	010·8	011·3	011·0	011·1	013·9
2	010·5	009·9	009·2	008·6	008·0	007·6	008·0	007·8	006·3	005·6	005·2	004·6	003·7	002·8	002·2	001·4	001·4	001·1	000·3	000·3	999·2	998·2	996·8	995·5	004·3
3	993·9	992·3	990·9	989·5	988·5	987·1	985·8	984·9	983·3	982·5	981·8	981·1	981·2	980·7	979·7	979·3	977·3	977·3	978·6	978·8	979·7	980·1	980·4	981·1	983·5
4	980·6	979·8	978·5	977·7	975·9	974·2	974·2	974·6	976·7	976·9	977·0	976·8	977·4	978·5	979·3	980·2	981·0	982·0	983·6	986·9	988·8	990·8	993·0	994·4	980·5
5	995·8	996·8	997·6	998·0	999·2	999·5	000·5	001·0	001·2	001·4	001·4	000·9	000·6	000·6	000·6	000·7	001·1	001·4	001·3	001·5	001·8	001·6	001·4	001·0	000·1
6	000·8	000·4	000·1	999·4	999·0	998·1	998·1	998·5	999·2	998·8	998·6	998·3	997·8	997·6	996·9	997·0	997·2	997·1	997·1	997·0	996·9	996·6	996·2	995·9	998·1
7	995·7	995·6	995·6	995·7	995·7	995·8	995·7	995·9	995·8	995·7	995·7	995·0	994·5	993·9	993·6	993·0	992·4	991·6	990·5	989·7	988·9	988·2	987·6	987·3	993·5
8	987·3	988·2	989·0	989·8	990·5	991·2	991·9	992·8	993·1	993·1	993·4	993·6	993·4	993·5	993·7	993·9	994·0	994·4	994·4	994·3	994·3	994·1	993·7	992·8	992·4
9	992·2	992·0	990·0	989·0	988·1	986·8	985·8	985·0	984·0	983·0	982·2	981·2	979·9	979·1	978·0	977·0	975·9	975·0	974·1	973·1	972·1	971·5	970·9	970·1	981·1
10	969·5	968·8	968·2	967·5	967·6	967·8	968·3	968·9	969·2	969·5	969·7	969·5	969·2	968·8	968·5	968·6	968·6	968·5	968·1	967·9	967·7	967·5	967·2	966·9	968·5
11	966·6	966·3	965·6	965·5	965·7	965·9	966·0	966·5	966·3	966·5	966·8	966·6	966·7	967·2	967·6	968·1	968·5	969·2	969·7	970·1	970·6	971·2	971·6	972·3	**967·7**
12	973·1	973·6	974·3	975·2	975·9	976·9	978·1	979·0	980·4	981·6	983·1	984·2	985·5	986·8	988·2	989·8	991·4	992·8	994·0	995·2	996·3	997·2	998·2	999·4	984·9
13	000·2	000·8	001·1	002·1	002·7	002·9	003·5	004·1	004·6	004·9	004·7	004·6	004·4	004·3	003·9	003·8	003·6	002·9	002·6	002·3	001·5	001·2	001·0	000·6	002·8
14	999·9	999·7	999·6	999·3	999·2	998·8	999·0	999·2	999·5	999·7	000·2	000·5	000·6	000·7	000·8	001·2	001·6	002·4	003·2	004·1	004·8	005·2	005·8	006·9	001·2
15	007·5	008·1	008·9	010·3	011·2	012·3	013·3	014·5	015·8	016·9	017·8	018·4	019·2	019·8	020·3	020·9	021·9	022·9	023·5	024·0	024·7	025·1	025·3	025·7	017·5
16	026·1	026·2	026·3	026·5	026·8	026·8	027·0	027·5	027·8	028·1	028·4	028·4	027·9	027·9	027·8	027·6	027·3	027·0	026·9	026·8	026·6	026·3	025·7	025·3	**027·1**
17	025·0	024·7	024·5	024·0	023·9	023·4	023·4	023·2	023·1	022·9	022·7	022·0	021·5	020·8	020·5	020·2	019·8	020·0	019·6	018·9	018·8	018·0	017·6	016·7	021·6
18	016·0	015·3	014·4	013·5	012·6	011·4	010·3	009·5	009·6	009·4	009·1	008·9	008·3	008·1	008·2	008·2	008·5	008·6	008·4	008·2	008·1	008·0	007·7	007·3	010·1
19	006·7	006·1	005·7	005·1	004·7	004·6	004·2	004·7	004·7	004·7	004·6	004·3	004·4	004·5	004·9	005·0	005·4	005·7	006·0	006·1	006·1	006·1	005·9	005·9	005·3
20	005·7	005·6	005·2	004·6	004·4	004·3	004·4	004·4	004·2	003·8	003·6	003·1	002·1	001·2	000·4	999·9	999·5	999·0	998·5	998·3	998·2	998·2	997·9	997·9	002·0
21	998·0	998·5	999·0	000·0	001·0	002·1	002·9	003·4	004·8	006·2	006·7	007·8	008·4	008·8	009·5	010·1	011·4	012·4	013·0	014·1	014·6	015·5	016·0	016·6	007·1
22	016·7	017·5	017·9	018·4	019·1	019·8	020·6	021·7	022·2	022·6	022·6	022·8	022·9	022·7	022·6	022·7	022·1	021·4	020·4	019·8	019·2	017·9	017·0	015·7	020·3
23	014·8	012·4	011·0	009·5	008·4	007·4	006·5	005·9	005·2	004·4	003·2	002·2	001·3	000·5	999·9	999·5	998·8	997·7	996·6	995·7	994·7	993·6	992·7	991·9	002·7
24	991·0	990·5	990·2	990·5	991·0	992·0	993·5	994·5	995·4	996·6	997·7	998·3	999·3	999·1	999·1	999·6	999·3	999·4	999·0	999·0	998·8	998·4	998·2	998·5	996·1
25	998·1	998·0	998·0	998·2	998·4	999·5	000·1	001·2	001·2	002·1	002·3	002·7	003·2	003·2	003·2	003·4	003·4	003·2	002·7	002·0	001·3	000·0	998·8	997·7	000·9
26	997·2	996·8	996·3	995·9	995·4	995·2	995·0	994·8	994·4	993·6	993·3	992·5	992·0	990·9	990·5	989·7	989·3	988·9	988·3	988·0	987·6	987·4	987·3	986·9	992·2
27	986·8	986·2	985·8	985·3	985·2	986·1	987·8	989·6	990·9	992·2	993·1	994·0	994·3	994·8	995·6	996·2	997·0	997·5	998·0	998·8	999·5	000·6	001·6	002·7	993·0
28	003·5	004·5	005·4	006·4	007·6	008·3	009·4	010·5	011·9	012·1	012·7	012·8	013·1	013·4	013·4	013·7	014·3	014·4	014·5	014·4	014·3	014·2	014·3	014·2	011·1
29	013·7	013·8	013·9	014·0	014·3	014·5	014·8	015·3	015·6	015·8	015·9	016·0	016·2	016·6	016·8	017·0	017·4	018·1	018·2	018·4	018·4	018·8	019·1	019·3	016·2
30	019·8	019·9	019·9	020·2	020·6	021·1	021·2	022·1	022·5	022·8	023·3	023·3	023·0	023·2	023·6	023·9	024·4	024·6	024·4	024·3	024·4	024·4	024·3	024·1	022·6
Mean (Station level)	1000·25	1000·11	999·90	**999·83**	999·86	999·89	1000·15	1000·55	1000·81	1000·97	**1001·07**	1000·99	1000·89	1000·81	1000·78	1000·84	1000·90	1000·97	1000·91	1000·99	1000·96	1000·91	1000·81	1000·72	1000·61
Mean (Sea level)	1003·41	1003·27	1003·07	**1003·00**	1003·03	1003·06	1003·33	1003·72	1003·99	1004·14	**1004·24**	1004·15	1004·05	1003·97	1003·94	1004·01	1004·07	1004·14	1004·08	1004·16	1004·13	1004·08	1003·98	1003·89	1003·78

80. Aberdeen : H_b = 26·0 metres. **December, 1931.**

Day. (Station Level)	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb
1	023·6	023·2	022·7	022·2	021·5	020·9	020·6	021·2	020·8	020·4	020·1	019·6	019·3	019·1	018·5	019·7	019·5	019·6	019·8	019·8	019·8	019·8	019·6	019·3	020·5
2	018·9	018·5	018·0	016·8	016·1	015·6	015·3	015·0	014·7	014·1	013·8	012·0	011·2	010·6	009·8	009·7	008·8	008·0	006·2	005·2	004·4	002·2	001·3	999·4	011·5
3	997·6	996·2	994·8	992·1	989·3	986·8	984·8	982·4	979·0	977·1	977·6	975·6	973·9	972·3	971·4	971·9	972·5	973·5	974·9	975·8	977·0	977·6	978·4	978·6	**980·9**
4	978·6	979·2	979·7	980·0	980·3	980·6	980·9	981·0	981·0	981·2	981·3	981·2	981·2	981·9	982·4	982·9	983·3	984·1	985·1	986·4	987·9	989·6	991·1	992·5	982·8
5	993·9	995·9	996·7	998·7	999·8	001·1	001·2	001·1	001·4	000·8	000·7	999·5	996·1	994·3	991·4	990·1	989·6	989·0	988·2	987·9	987·2	987·3	987·4	987·4	994·5
6	987·3	987·3	987·3	987·6	988·2	989·4	990·9	992·3	993·8	995·1	996·5	997·4	998·2	999·1	999·5	000·6	001·2	001·8	002·4	002·8	003·7	004·0	004·2	004·8	996·1
7	005·5	006·2	006·9	007·2	008·2	008·9	009·5	010·2	011·1	011·4	012·1	012·2	012·4	012·0	012·4	012·5	012·2	011·9	011·3	010·7	009·9	009·0	008·3	007·5	009·9
8	007·5	007·7	007·9	008·1	008·4	008·6	008·9	009·0	009·1	009·0	009·0	009·1	008·8	009·1	009·0	009·2	009·2	009·8	010·1	010·0	010·0	010·0	010·0	010·1	009·0
9	010·4	011·1	011·1	011·2	011·7	011·5	012·3	012·2	012·6	013·1	013·6	013·9	014·0	014·5	015·1	015·7	016·5	016·9	017·1	017·1	016·9	017·3	016·4	015·7	014·0
10	015·2	014·4	014·3	014·3	014·6	014·9	015·5	016·5	016·9	017·2	017·4	017·5	018·2	018·4	019·4	020·5	021·0	021·5	021·5	022·0	022·4	022·7	023·0	023·6	018·3
11	023·8	024·0	024·5	024·5	024·6	025·4	025·6	025·9	025·9	025·6	025·5	024·9	024·4	024·0	024·0	023·8	023·9	024·0	024·2	024·4	024·5	024·1	023·7	023·6	024·5
12	023·0	022·9	022·5	022·4	022·6	022·9	023·3	024·3	024·5	025·0	025·6	025·7	025·6	025·2	025·3	025·5	025·2	025·2	025·2	025·1	025·4	025·7	025·8	025·9	024·5
13	025·7	025·7	025·8	025·8	026·0	026·0	025·8	025·4	025·2	025·1	024·7	024·1	023·3	022·3	021·8	021·0	020·6	020·1	019·7	019·2	018·9	018·1	017·3	016·6	022·9
14	016·0	015·7	015·5	014·8	014·6	014·2	014·0	013·8	013·1	012·9	012·4	011·7	011·0	010·3	009·9	008·7	008·3	009·2	009·0	009·1	009·2	010·8	012·0	013·0	012·1
15	013·7	014·3	015·0	015·6	016·2	016·9	018·1	018·9	019·6	020·5	021·2	021·4	021·6	022·0	022·8	023·5	023·8	024·6	024·7	025·0	025·5	025·9	026·2	026·5	020·7
16	026·8	026·9	027·0	027·6	027·8	027·9	028·3	028·8	028·9	029·1	029·9	029·9	029·7	029·9	029·8	030·0	030·2	030·5	030·9	031·0	031·4	031·5	031·6	031·8	029·4
17	031·9	031·7	031·8	031·7	031·6	031·6	031·8	032·4	032·4	032·6	032·5	032·6	032·4	032·6	032·7	032·8	032·7	032·7	032·7	032·7	032·6	032·5	032·4	032·5	032·3
18	032·3	031·9	031·8	031·3	031·1	031·1	031·3	031·5	031·5	031·5	031·3	030·9	030·3	030·3	030·4	030·4	030·4	030·6	030·5	030·4	030·5	030·8	031·0	031·3	031·0
19	031·5	031·7	031·9	032·0	032·0	032·0	032·0	032·0	032·0	031·8	031·8	031·9	031·7	031·5	031·5	031·5	031·6	031·7	032·1	032·3	032·4	032·4	032·6	033·0	031·9
20	033·0	033·0	033·2	033·2	033·5	033·8	033·9	034·2	034·4	035·0	035·2	035·3	034·9	034·8	034·9	035·0	035·1	035·2	035·3	035·3	035·2	035·1	035·2	035·3	**034·5**
21	035·2	035·1	034·9	034·9	034·8	034·8	034·6	034·7	034·8	034·5	034·4	034·0	033·4	033·1	032·8	032·8	032·6	032·5	032·2	032·1	031·9	032·0	032·1	032·1	033·7
22	031·8	031·7	031·8	031·5	031·1	031·3	031·4	031·2	031·4	031·3	031·2	030·3	029·8	029·4	029·3	029·2	029·1	028·5	028·5	027·9	027·1	026·7	025·9	024·1	029·8
23	022·6	022·1	020·9	021·0	019·6	020·8	020·5	020·0	021·3	022·1	023·5	024·1	024·4	024·6	024·5	024·3	024·0	023·1	022·2	021·5	019·9	018·9	017·6	016·7	021·8
24	015·0	014·2	013·2	012·3	011·5	011·7	011·9	011·8	012·5	012·2	011·8	010·8	010·3	009·4	010·2	011·4	012·8	014·1	015·3	016·3	017·0	017·6	018·1	018·5	013·3
25	018·4	018·4	018·1	017·9	017·9	017·8	017·7	017·6	017·7	018·3	018·6	018·6	018·5	018·9	019·4	019·6	019·5	019·8	019·8	019·8	019·7	019·7	019·7	019·4	018·8
26	019·2	018·7	018·3	017·5	016·8	016·2	015·7	015·3	014·8	014·3	013·1	012·1	010·9	010·3	009·8	009·5	008·6	008·6	008·5	008·5	008·1	008·1	007·7	007·0	012·7
27	006·8	006·5	006·0	005·5	005·0	005·0	004·8	004·5	003·9	003·4	002·6	001·3	000·0	998·7	996·9	995·8	993·8	991·6	990·0	989·0	987·9	987·9	988·1	988·8	998·9
28	988·5	988·5	987·8	988·9	989·9	990·1	991·5	991·5	991·3	990·6	990·0	988·5	987·8	986·7	985·8	984·8	983·5	982·5	981·4	980·9	982·1	983·2	984·2	985·3	987·0
29	985·5	986·0	986·0	985·5	984·9	984·2	984·6	985·3	987·6	989·6	990·6	992·0	992·5	993·3	994·5	994·9	995·8	997·4	998·6	998·9	999·3	000·4	000·7	001·0	991·7
30	001·4	001·5	001·9	002·2	002·6	002·9	003·8	004·3	004·9	005·5	006·6	006·4	006·1	006·5	006·9	007·3	007·7	008·4	008·6	008·8	009·1	009·4	009·5	009·8	005·7
31	010·1	010·1	009·9	009·9	010·2	010·7	011·2	011·3	012·2	012·4	012·5	012·5	012·5	012·6	012·8	012·3	011·8	011·2	010·5	009·8	008·9	008·1	007·1	006·3	010·8
Mean (Station level)	1013·89	1013·88	1013·78	1013·68	1013·63	1013·73	1013·93	1014·05	1014·20	1014·28	**1014·42**	1014·10	1013·69	1013·47	1013·38	1013·45	**1013·38**	1013·47	1013·44	1013·41	1013·41	1013·50	1013·49	1013·46	1013·73
Mean (Sea level)	1017·14	1017·13	1017·03	1016·93	1016·87	1016·97	1017·17	1017·29	1017·44	1017·52	**1017·66**	1017·33	1016·92	1016·70	**1016·61**	1016·68	1016·61	1016·71	1016·67	1016·65	1016·65	1016·74	1016·73	1016·71	1016·96
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

PRESSURE AT STATION LEVEL AND AT SEA LEVEL.
ANNUAL MEANS FROM HOURLY VALUES.

From readings in millibars at exact hours, Greenwich Mean Time.

81. Aberdeen : H_b = 26·0 metres. **1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Station Level.	mb. 008·44	mb. 008·31	mb. 008·17	mb. 008·07	mb. **008·05**	mb. 008·12	mb. 008·30	mb. 008·47	mb. 008·57	mb. 008·66	mb. 008·73	mb. 008·66	mb. 008·55	mb. 008·46	mb. 008·38	mb. 008·37	mb. 008·39	mb. 008·53	mb. 008·60	mb. 008·69	mb. **008·74**	mb. 008·72	mb. 008·66	mb. 008·61	mb. 008·47
Sea Level.	011·65	011·52	011·38	011·28	**011·26**	011·33	011·50	011·67	011·77	011·85	011·92	011·84	011·73	011·63	011·56	011·56	011·58	011·72	011·79	011·89	**011·94**	011·93	011·87	011·82	011·67

PRESSURE AT STATION LEVEL; MONTHLY MEANS AND DIURNAL INEQUALITIES.

The departures from the mean of the day are adjusted for non-cyclic change.

82. Aberdeen : H_b = 26·0 metres. **1931.**

Month	Mean.	Hour. 1.	GMT. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
Jan.	1003·14	−0·14	−0·28	−0·34	−0·54	−0·70	**−0·73**	−0·58	−0·26	−0·03	+0·21	+0·26	+0·15	+0·03	+0·03	+0·08	+0·24	+0·31	**+0·57**	+0·52	+0·48	+0·40	+0·29	+0·07	−0·01
Feb.	1001·78	+0·17	+0·15	+0·13	−0·03	−0·11	−0·20	−0·15	+0·09	+0·09	+0·18	**+0·32**	+0·09	−0·28	−0·42	**−0·56**	−0·49	−0·34	+0·06	+0·17	+0·28	+0·24	+0·20	+0·17	+0·24
Mar.	1013·40	+0·02	−0·13	−0·31	−0·38	**−0·44**	−0·39	−0·11	+0·07	+0·17	+0·23	+0·31	**+0·32**	+0·23	+0·11	−0·08	−0·17	−0·17	+0·03	+0·05	+0·13	+0·13	+0·15	+0·12	+0·09
April	1007·32	+0·17	+0·06	−0·07	−0·14	−0·13	0·00	+0·17	**+0·23**	+0·15	+0·17	+0·19	+0·11	−0·01	−0·27	−0·41	**−0·45**	−0·41	−0·23	−0·09	+0·13	+0·21	+0·21	+0·19	+0·22
May	1006·84	+0·23	+0·06	−0·14	−0·23	**−0·29**	−0·23	−0·09	0·00	−0·03	+0·01	+0·05	−0·05	−0·07	−0·12	−0·15	−0·20	−0·22	−0·15	−0·01	+0·19	+0·39	**+0·41**	+0·37	+0·28
June	1010·71	−0·24	−0·48	−0·68	**−0·69**	−0·58	−0·48	−0·34	−0·22	−0·05	+0·03	+0·13	+0·21	+0·25	+0·29	+0·35	+0·32	+0·26	+0·26	+0·30	+0·37	**+0·44**	+0·38	+0·20	−0·03
July	1001·81	+0·08	−0·05	−0·21	**−0·25**	−0·25	−0·21	−0·05	−0·02	−0·01	+0·07	+0·04	+0·05	+0·07	+0·03	+0·05	−0·04	−0·10	−0·10	−0·01	+0·08	+0·19	**+0·24**	+0·23	+0·17
Aug.	1011·15	+0·07	−0·12	−0·34	**−0·44**	−0·42	−0·30	−0·16	−0·06	0·00	+0·07	+0·13	+0·14	+0·15	+0·06	−0·01	−0·06	−0·11	−0·06	+0·07	+0·19	**+0·33**	+0·33	+0·31	+0·23
Sept.	**1018·20**	+0·10	−0·06	−0·22	−0·42	**−0·45**	−0·30	−0·18	−0·08	+0·05	+0·10	+0·15	+0·12	+0·04	−0·01	−0·19	−0·21	−0·13	+0·02	+0·21	+0·32	**+0·34**	+0·33	+0·28	+0·22
Oct.	1012·37	−0·10	−0·22	−0·39	−0·45	**−0·49**	−0·35	−0·10	+0·19	+0·36	+0·43	**+0·52**	+0·41	+0·22	+0·09	−0·13	−0·22	−0·19	+0·05	+0·05	+0·14	+0·17	+0·06	+0·02	−0·07
Nov.	**1000·61**	−0·22	−0·38	−0·59	**−0·68**	−0·67	−0·65	−0·39	−0·01	+0·24	+0·38	**+0·47**	+0·37	+0·26	+0·17	+0·13	+0·18	+0·22	+0·28	+0·21	+0·28	+0·23	+0·16	+0·05	−0·05
Dec.	1013·73	−0·09	−0·08	−0·16	−0·23	−0·27	−0·14	+0·08	+0·23	+0·40	+0·51	**+0·67**	+0·37	−0·01	−0·20	**−0·27**	−0·18	−0·23	−0·11	−0·12	−0·13	−0·10	+0·01	+0·03	+0·03
Year	1008·47	0·00	−0·13	−0·28	−0·37	**−0·40**	−0·33	−0·16	+0·01	+0·11	+0·20	**+0·27**	+0·19	+0·07	−0·02	−0·10	−0·11	−0·09	+0·05	+0·11	+0·20	+0·25	+0·23	+0·17	+0·11

ABSOLUTE EXTREMES OF PRESSURE AT STATION LEVEL FOR EACH DAY.

Maximum and Minimum for the interval 0h. to 24h., Greenwich Mean Time.

83. Aberdeen : H_b = 26·0 metres. **1931.**

Month.	Jan.		Feb.		Mar.		April.		May.		June.	
Day.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	983·9	981·6	005·2	994·4	009·3	**987·5**	020·7	011·0	002·7	996·8	012·5	006·0
2	989·1	981·8	018·7	004·6	008·8	004·5	011·0	001·8	004·3	001·3	016·5	012·5
3	994·7	988·6	**025·5**	018·7	013·1	006·7	008·1	001·7	004·2	999·5	020·5	016·3
4	010·6	994·7	024·3	020·1	018·4	013·1	007·9	997·2	999·5	**990·7**	022·3	017·9
5	020·9	010·6	020·9	010·1	019·3	017·7	000·8	997·0	007·6	994·7	022·4	016·8
6	028·7	020·9	010·1	006·9	020·0	014·9	005·7	000·8	014·3	007·6	016·8	006·5
7	**030·7**	027·5	007·0	000·9	018·3	012·7	005·9	004·0	014·2	012·0	006·5	002·7
8	027·5	017·8	002·1	993·1	018·3	014·0	007·1	005·9	021·8	012·7	006·3	002·3
9	022·2	019·8	000·7	990·5	014·0	006·1	018·6	006·7	**022·0**	017·3	005·7	001·2
10	020·8	011·6	999·5	988·7	006·2	003·0	020·5	015·3	017·3	004·8	002·1	998·3
11	011·6	000·3	999·6	**968·2**	006·8	002·5	015·3	004·9	007·1	999·4	010·9	997·8
12	008·3	996·8	986·1	**968·2**	004·7	001·5	012·4	005·6	010·1	007·1	016·1	010·8
13	017·1	008·3	005·2	985·6	001·5	995·2	015·7	012·4	008·9	988·2	017·5	013·2
14	016·4	001·1	010·4	998·9	005·2	995·0	018·8	012·4	998·2	994·2	013·2	990·2
15	003·9	994·6	999·1	984·0	011·7	005·2	018·1	010·1	997·3	995·7	003·9	**986·8**
16	994·6	978·1	990·2	980·6	015·6	011·7	015·1	999·6	999·6	997·1	003·8	000·5
17	002·2	980·4	015·8	990·2	015·5	012·1	007·6	996·2	999·9	998·4	003·7	997·8
18	007·1	001·3	019·7	012·9	012·1	008·8	018·6	007·6	006·3	998·5	001·7	997·2
19	009·0	997·5	012·9	999·5	008·9	007·4	**020·8**	018·6	016·5	006·3	014·8	001·7
20	013·6	005·0	999·5	985·3	007·9	004·1	020·1	015·4	016·8	013·7	015·5	008·4
21	013·9	004·5	003·8	988·5	004·1	002·1	015·4	006·4	015·1	013·5	008·4	005·2
22	004·5	988·0	010·3	003·8	008·5	002·3	006·4	000·8	014·2	009·4	013·4	003·9
23	988·0	965·5	020·3	009·9	025·8	008·5	000·8	995·8	009·4	007·7	017·7	012·5
24	983·0	**964·8**	020·4	004·6	**034·3**	025·8	996·4	994·4	007·7	997·5	**024·8**	017·7
25	000·4	983·0	008·4	998·6	**034·3**	032·6	994·5	990·8	012·5	003·2	**024·8**	020·8
26	014·6	000·4	008·9	001·0	032·7	024·6	998·9	**990·2**	017·9	012·5	020·8	015·5
27	016·8	001·7	009·1	990·2	024·6	019·3	005·1	997·3	018·1	015·1	017·2	013·9
28	001·7	998·2	990·2	983·2	028·3	022·6	013·6	005·1	015·5	002·7	017·2	012·2
29	004·6	996·1	—	—	028·0	022·7	014·8	013·0	006·6	000·8	021·0	012·0
30	015·2	004·6	—	—	023·5	021·6	013·0	002·7	007·8	004·9	021·0	016·0
31	014·1	994·4	—	—	023·4	020·7	—	—	008·0	006·2	—	—
Mean	1008·70	997·40	1008·00	995·76	1016·22	1010·53	1010·92	1004·02	1009·72	1003·85	1013·97	1007·15

Month.	July.		Aug.		Sept.		Oct.		Nov.		Dec.	
Day.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	**016·0**	003·1	015·2	009·2	014·1	005·3	999·9	994·6	015·8	009·7	024·1	018·5
2	003·1	996·0	025·6	015·2	005·3	000·2	003·1	993·4	011·1	995·5	019·3	999·4
3	998·4	993·0	029·2	025·6	003·8	000·2	019·1	003·1	995·5	976·8	999·4	**971·1**
4	001·7	992·7	**029·3**	025·7	003·6	001·6	015·9	007·6	994·4	973·7	992·5	977·5
5	007·1	001·7	025·7	012·7	012·0	003·3	010·8	004·5	001·9	994·4	001·5	986·9
6	007·1	003·7	012·7	007·0	015·3	011·7	008·5	992·4	001·1	995·9	004·8	987·2
7	004·2	002·9	008·0	004·1	017·4	015·1	994·7	**991·2**	996·0	987·3	012·7	004·8
8	002·9	998·7	007·1	001·8	016·5	011·4	004·3	994·6	994·5	987·1	010·2	007·4
9	004·4	998·0	010·6	006·5	017·1	012·5	007·5	999·5	992·8	970·1	017·4	010·1
10	010·0	003·8	017·0	007·5	019·2	017·0	015·6	007·5	970·1	966·9	023·6	014·2
11	011·0	009·4	019·0	017·0	018·3	012·7	017·2	012·1	972·3	**965·4**	026·0	023·5
12	009·4	997·2	018·6	013·4	021·6	012·4	017·0	004·0	999·4	972·3	025·9	022·3
13	999·3	995·5	013·4	009·7	023·1	021·2	022·7	009·8	005·0	999·4	026·1	016·6
14	000·7	998·9	009·7	000·0	022·5	018·9	031·0	022·7	006·9	998·8	017·0	008·2
15	004·2	000·6	000·0	994·6	024·5	020·8	**032·8**	030·9	025·7	006·9	026·5	013·0
16	006·5	004·0	994·6	992·3	023·6	012·6	030·9	028·7	**028·5**	025·3	031·8	026·5
17	005·0	997·9	000·0	992·3	016·6	010·9	032·0	028·5	025·3	016·7	032·9	031·5
18	000·9	997·2	004·2	999·9	022·5	016·5	032·3	024·6	016·7	007·3	032·5	030·1
19	004·8	999·8	003·8	991·1	030·2	022·5	024·6	007·3	007·3	004·1	033·0	031·2
20	011·7	004·8	993·0	**987·1**	031·1	029·3	020·7	007·5	005·9	997·7	**035·4**	032·9
21	012·0	006·1	007·0	993·0	032·9	031·0	021·4	016·3	016·6	997·9	035·3	031·9
22	006·1	998·9	007·4	006·6	031·4	026·1	016·3	002·1	023·0	015·7	032·1	024·1
23	005·5	999·2	008·2	006·3	029·5	026·4	002·3	994·5	015·7	991·9	024·7	016·9
24	005·2	999·8	009·5	006·8	033·5	029·4	008·4	994·5	999·6	990·2	018·5	009·3
25	999·8	993·9	018·9	009·5	**035·1**	033·1	018·2	008·4	003·5	997·7	019·9	017·5
26	993·9	990·9	025·9	018·5	034·8	029·8	018·4	014·6	997·7	986·9	019·4	007·0
27	992·2	**989·9**	025·9	024·6	029·8	018·4	014·6	006·4	002·7	984·8	007·1	987·6
28	003·8	992·2	025·9	024·6	018·4	017·1	014·1	004·7	014·6	002·7	991·6	980·7
29	005·5	998·7	025·3	023·9	017·1	006·8	014·8	007·5	019·3	013·7	001·0	983·8
30	004·9	998·2	024·0	019·5	006·8	**999·0**	023·6	010·1	024·6	019·3	009·8	001·0
31	009·2	004·9	019·5	014·1	—	—	023·0	014·3	—	—	012·9	006·3
Mean	1004·73	999·08	1014·01	1008·39	1020·92	1015·77	1016·64	1007·67	1006·12	995·07	1018·22	1009·00

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1012·3 mb. is written 012·3. This rule does not, however, apply to monthly means.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

84. Aberdeen : North Wall Screen on Tower : h_t (height of thermometer bulb above the ground)=12·5 metres. **January, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	71·8	72·5	72·1	72·5	72·3	72·6	73·6	73·3	74·0	74·6	75·1	75·7	76·0	76·3	75·9	75·5	75·5	75·5	75·5	74·9	75·5	75·3	75·6	75·8	74·4
2	75·6	75·9	75·5	75·9	76·2	76·2	75·6	76·4	76·5	76·7	76·8	77·5	77·6	77·9	78·5	77·7	77·1	77·3	77·4	76·8	76·9	76·1	75·3	74·4	76·6
3	73·8	74·2	73·4	73·4	73·4	74·1	74·6	74·9	75·0	74·6	74·4	75·1	75·6	76·0	76·1	75·0	74·0	73·4	73·0	72·9	72·8	72·9	73·2	73·7	74·2
4	74·0	74·1	74·2	74·3	74·1	74·0	74·1	74·3	74·1	74·8	75·0	75·8	76·1	76·2	75·9	75·8	75·9	76·0	75·4	75·4	75·5	75·9	75·7	76·0	75·1
5	75·9	75·6	75·4	75·0	75·4	75·0	75·0	74·9	75·2	75·4	75·5	75·7	76·0	76·1	75·5	75·3	75·1	75·2	74·5	74·5	74·4	74·1	74·1	74·1	75·2
6	74·3	74·0	74·0	73·9	73·7	74·0	73·7	73·6	73·7	73·5	74·6	75·1	75·4	75·6	75·0	74·5	72·9	72·5	71·9	72·1	72·1	71·9	71·3	71·2	73·6
7	70·9	70·3	70·1	70·4	70·2	70·7	70·8	71·0	72·1	73·1	73·9	74·4	74·7	74·9	74·9	74·1	73·8	73·9	73·9	74·0	73·6	73·4	73·2	73·4	**72·7**
8	73·6	73·8	73·9	74·3	74·9	74·9	74·5	74·7	74·5	75·0	75·9	76·1	76·2	76·7	76·6	76·1	76·9	76·8	76·6	76·0	75·8	75·4	75·0	75·1	75·3
9	75·2	74·7	75·5	75·6	75·5	75·6	75·5	75·0	75·4	75·8	76·1	76·5	76·8	76·6	76·6	76·6	76·5	75·6	75·9	75·5	75·3	75·1	75·1	75·8	75·7
10	76·0	76·6	76·3	76·9	76·8	76·9	77·2	77·1	78·2	78·6	79·1	80·2	80·1	80·5	80·6	80·9	81·4	81·4	81·5	81·2	79·9	80·6	80·9	80·1	79·0
11	80·2	81·1	80·3	80·3	80·0	81·0	82·3	82·4	80·4	81·1	82·1	81·5	82·2	80·5	80·4	79·9	78·8	78·1	78·7	77·6	76·8	75·9	76·1	76·4	79·8
12	75·9	75·8	75·8	75·3	74·8	74·7	74·5	75·1	76·2	76·1	76·6	76·8	77·3	77·4	77·3	76·4	77·0	77·0	76·9	76·6	76·0	76·1	75·5	75·4	76·1
13	74·8	74·3	74·0	73·2	73·0	73·0	73·0	72·4	72·3	72·9	72·9	73·5	74·2	74·3	73·2	72·8	72·4	72·3	72·3	72·2	71·7	71·4	71·6	72·0	73·0
14	72·1	72·2	72·3	72·8	72·9	72·8	72·8	73·4	73·5	73·6	73·7	74·1	75·2	76·6	76·7	77·2	78·0	77·5	78·9	79·7	79·9	79·2	80·2	79·8	75·5
15	79·6	78·8	79·8	80·2	80·2	80·2	79·9	80·2	80·2	79·8	80·5	79·9	80·2	80·7	80·8	81·0	80·6	79·9	80·9	81·3	82·3	83·2	83·3	83·1	80·6
16	83·2	83·2	83·6	83·7	83·5	83·9	83·8	83·0	82·9	83·0	83·2	82·7	82·6	83·4	83·0	82·5	80·2	78·1	77·7	74·4	75·0	76·0	76·9	76·9	**81·2**
17	76·0	75·9	74·9	75·2	74·6	75·0	75·3	75·5	75·2	76·1	76·5	76·8	77·2	76·6	75·9	75·7	75·7	75·4	75·2	75·1	74·7	74·3	74·2	74·4	75·5
18	74·6	74·6	74·5	74·1	74·2	74·3	74·2	73·8	73·4	73·5	73·4	74·2	74·3	74·3	74·1	73·9	73·8	73·1	73·0	72·8	72·8	73·0	73·4	73·7	73·8
19	73·9	73·9	74·2	74·4	74·5	74·5	74·4	74·8	74·9	75·1	75·3	75·7	75·5	75·4	75·7	75·5	75·5	74·4	73·3	73·6	73·7	74·4	75·3	77·5	74·7
20	77·9	77·6	77·5	77·2	78·2	78·5	78·3	77·9	77·8	77·5	77·5	78·6	80·1	80·0	79·7	78·6	77·7	78·0	78·2	76·7	78·1	76·4	76·1	75·6	77·9
21	75·7	74·5	75·6	76·0	76·3	76·5	76·9	77·1	77·1	77·8	78·2	78·6	78·4	78·5	78·6	78·5	78·6	78·6	78·9	79·0	78·8	78·8	78·7	78·6	77·6
22	78·6	78·5	78·5	78·5	78·5	78·3	77·6	76·5	76·0	76·1	77·0	77·7	78·4	78·4	77·8	77·4	77·4	77·4	77·1	77·3	78·4	78·4	78·2	77·6	77·8
23	77·5	77·7	78·3	79·0	79·0	78·4	78·3	78·4	78·8	78·8	79·5	79·9	80·4	80·5	79·9	79·4	79·3	78·8	79·0	78·6	78·9	78·1	78·3	78·3	78·9
24	77·4	76·3	76·3	75·7	75·3	76·2	76·5	76·9	77·1	77·6	77·5	77·7	78·7	78·6	78·4	78·4	77·7	77·2	76·6	76·5	76·6	76·6	76·5	76·3	77·1
25	76·3	76·1	75·9	75·4	76·3	76·3	76·3	76·2	76·1	76·3	77·0	77·1	77·2	77·0	77·2	77·0	76·7	76·6	76·3	75·6	75·7	75·3	74·9	74·5	76·3
26	74·4	74·8	74·7	75·2	75·0	75·1	74·8	75·1	75·2	75·6	76·2	77·2	75·8	75·8	76·0	75·4	75·4	75·4	75·3	75·8	76·3	76·0	76·2	76·1	75·5
27	76·0	76·2	75·7	75·3	75·0	75·2	75·4	74·9	75·2	75·6	76·5	77·0	77·3	77·4	77·0	76·2	75·5	75·5	76·3	76·8	76·7	77·0	77·3	77·4	76·2
28	77·5	77·5	77·5	77·3	77·0	77·4	77·7	78·0	78·0	77·8	77·8	77·4	77·2	77·0	76·5	76·5	75·9	76·0	76·1	75·9	75·2	74·6	76·4	76·4	76·9
29	76·4	76·3	76·0	75·5	75·1	76·4	76·4	76·3	75·8	76·2	75·2	76·6	77·3	77·1	77·3	76·1	75·3	74·7	73·7	73·3	73·6	73·4	73·3	73·0	75·5
30	73·0	72·5	72·6	72·7	72·6	72·4	72·6	72·7	73·0	73·2	73·8	74·6	75·3	75·5	75·4	75·0	73·6	72·7	72·6	72·6	72·6	73·3	73·2	73·2	73·4
31	73·1	73·2	73·5	74·1	75·4	75·6	75·6	75·8	76·1	76·3	76·2	75·6	75·3	75·5	75·2	75·4	75·0	74·9	74·5	75·0	75·0	75·3	75·8	76·2	75·1
Mean ...	75·7	75·6	**75·5**	75·6	75·6	75·8	75·8	75·9	75·9	76·2	76·5	76·9	77·2	**77·3**	77·2	76·8	76·4	76·1	76·0	75·8	75·8	75·7	75·8	75·9	76·1

85. Aberdeen : North Wall Screen on Tower : h_t = 12·5 metres. **February, 1931.**

	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	76·4	76·5	76·7	77·0	76·9	77·0	77·3	76·4	75·9	75·8	75·8	76·0	76·7	76·7	76·6	76·4	76·5	76·3	75·4	75·5	75·1	74·7	74·3	73·7	76·1
2	75·4	75·9	75·9	75·4	75·4	75·3	75·4	75·4	75·8	75·9	76·4	77·1	77·5	76·6	74·9	74·1	74·2	75·0	74·4	75·4	75·7	75·7	75·8	77·1	75·6
3	77·0	77·3	77·3	77·3	77·3	77·2	77·0	75·9	76·0	77·2	77·4	77·6	77·6	77·4	77·2	76·9	76·8	76·7	76·5	76·4	76·0	76·3	76·7	76·6	76·9
4	76·5	76·4	76·3	75·3	75·3	75·7	75·7	76·0	76·2	75·3	74·7	74·4	74·2	74·1	74·4	74·6	74·5	74·4	74·3	74·4	74·5	74·5	74·6	74·3	75·1
5	73·9	74·3	74·5	74·7	74·8	74·9	75·0	75·1	75·6	76·5	76·6	76·6	76·8	76·9	77·1	77·1	77·0	76·7	76·7	76·8	76·7	76·5	76·3	76·3	75·9
6	76·3	75·9	75·6	75·6	75·9	76·0	75·7	75·8	75·4	74·9	74·4	74·8	75·0	75·6	76·1	76·5	75·6	75·2	75·4	75·1	74·6	74·5	74·0	74·0	75·4
7	73·8	74·1	74·7	74·6	74·8	74·8	75·0	74·8	74·7	74·8	75·5	76·9	77·1	77·0	77·6	77·4	76·8	76·1	76·9	76·9	76·7	76·3	76·2	76·8	75·8
8	76·8	77·1	77·2	77·4	78·1	78·2	78·4	78·5	78·4	78·3	78·3	78·3	78·2	77·9	78·1	78·3	78·6	79·0	79·0	79·3	79·4	79·4	80·2	80·2	78·4
9	79·7	79·3	78·5	79·7	78·5	78·1	78·8	79·2	79·3	80·0	79·6	80·2	81·1	82·2	81·8	81·0	80·2	79·8	79·9	80·0	80·1	79·4	79·1	79·2	79·8
10	79·7	77·4	76·4	76·6	76·7	76·3	76·0	75·8	76·3	76·7	77·4	78·0	79·1	78·2	78·1	77·9	77·1	77·1	76·4	76·1	76·0	75·9	75·9	75·7	77·0
11	75·5	75·8	75·7	75·2	75·1	75·5	75·7	75·4	75·9	76·6	76·9	77·5	77·8	77·3	77·3	77·4	77·1	76·5	76·2	75·6	75·4	75·5	75·3	75·6	76·2
12	75·9	76·2	74·7	75·7	75·4	75·3	75·8	76·1	76·2	76·3	77·3	77·7	78·0	77·9	76·3	75·8	75·9	75·0	74·9	74·6	74·7	74·8	74·6	74·1	75·8
13	74·2	74·1	74·6	74·4	74·9	75·4	75·1	75·0	74·5	75·2	76·0	76·4	76·9	77·3	75·9	74·6	74·9	74·5	74·5	74·5	74·6	74·8	74·7	74·3	75·1
14	73·8	73·7	73·9	73·8	73·6	73·5	73·8	73·3	73·6	74·2	74·8	75·6	76·1	76·4	76·5	76·2	75·8	75·6	74·6	74·3	74·5	74·7	74·8	75·0	74·7
15	74·8	75·0	75·4	75·0	74·8	75·1	75·6	76·4	76·6	77·2	77·5	78·2	78·3	78·8	78·2	77·5	77·0	76·2	75·8	75·8	75·4	75·0	74·4	75·1	76·2
16	74·5	74·0	73·7	73·0	72·6	72·0	71·3	71·6	72·2	73·2	74·8	75·4	75·5	75·5	75·6	75·5	75·0	74·5	73·6	73·4	73·7	74·9	75·4	76·2	74·0
17	76·3	76·0	75·9	74·0	74·6	76·9	76·8	76·3	77·1	77·2	76·3	77·2	77·8	77·3	77·0	76·9	76·0	76·0	75·2	74·9	75·3	75·1	74·3	75·4	76·1
18	75·4	75·9	75·5	75·5	75·4	76·3	76·3	75·9	76·1	76·1	76·4	76·8	76·6	76·4	76·2	75·9	75·7	75·1	74·4	73·9	73·5	73·6	73·8	73·9	75·5
19	73·8	73·9	73·9	73·6	73·9	73·9	73·9	73·6	73·6	74·4	75·1	76·2	76·0	76·7	76·4	76·2	76·3	76·2	76·1	76·2	76·5	76·3	76·3	76·6	75·2
20	76·4	76·6	77·0	77·1	77·8	77·9	78·6	78·4	78·5	80·1	81·6	82·2	81·2	80·7	80·1	79·4	78·1	76·8	76·6	75·9	75·4	75·1	74·6	74·8	78·0
21	74·5	74·4	74·5	74·7	74·3	74·1	74·5	74·1	74·7	75·8	75·9	76·5	76·8	76·4	75·3	74·6	74·6	75·2	73·6	73·2	73·1	72·8	72·8	73·0	74·6
22	72·1	72·2	72·0	72·1	72·1	72·7	72·2	71·8	73·5	75·1	76·2	77·4	77·4	76·6	76·2	76·5	76·3	75·0	74·8	74·7	73·9	73·6	73·2	72·6	74·2
23	72·2	71·6	72·1	72·3	72·0	72·7	72·8	73·0	73·9	75·3	76·1	76·8	77·3	77·2	77·1	76·9	75·1	75·4	74·4	74·5	74·1	73·6	73·4	72·8	74·2
24	72·9	72·8	72·8	72·9	73·0	73·9	73·9	74·0	73·3	73·6	73·8	74·8	75·3	75·6	76·2	76·7	78·2	78·1	80·3	79·7	80·4	81·3	81·3	81·3	75·9
25	80·2	80·0	79·2	78·3	77·6	78·2	78·0	79·2	81·9	81·0	82·1	83·3	84·6	86·4	86·4	85·8	85·0	84·0	79·3	78·3	77·9	78·0	77·6	77·5	**80·9**
26	78·3	78·5	77·5	76·6	75·9	75·8	75·3	75·3	75·8	76·5	77·4	78·0	78·2	78·4	78·3	77·6	77·0	75·2	75·0	74·6	74·6	74·6	74·7	74·2	76·5
27	74·4	74·3	74·4	74·5	74·3	74·4	74·5	74·9	74·9	76·0	76·7	77·5	78·1	78·2	78·3	77·9	77·0	76·8	76·0	75·5	74·9	74·4	74·5	74·0	75·7
28	74·0	73·8	73·5	73·4	73·0	72·3	71·9	71·8	71·8	72·6	73·1	73·4	73·9	74·5	74·7	74·3	74·4	72·5	72·3	72·5	72·9	72·6	71·9	72·2	**73·1**
Mean ...	75·5	75·5	75·3	75·2	**75·1**	75·3	75·4	75·3	75·6	76·1	76·6	77·2	77·5	**77·5**	77·3	77·0	76·7	76·2	75·8	75·6	75·6	75·5	75·4	75·4	76·0
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

86. Aberdeen : North Wall Screen on Tower : h_t (height of thermometer bulb above ground) = 12·5 metres. **March, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	74·7	74·8	74·4	72·6	71·8	72·0	72·5	72·2	72·9	73·2	73·4	73·9	73·9	74·6	74·9	73·8	72·4	71·0	71·1	71·0	70·3	70·0	69·8	69·3	72·6
2	69·4	70·4	69·4	69·0	69·0	69·3	67·8	69·0	72·7	72·6	73·3	73·9	74·3	73·9	73·2	73·1	72·8	72·4	72·3	72·1	71·6	71·0	69·5	68·4	71·3
3	67·3	68·0	68·6	68·7	66·8	66·2	65·2	65·5	66·6	68·1	69·4	71·0	72·1	72·2	72·4	71·9	71·1	69·9	69·0	68·0	67·2	66·4	65·4	64·0	**68·5**
4	63·7	63·0	63·4	64·0	62·9	62·9	62·3	62·5	63·5	65·2	67·9	69·4	71·6	74·1	75·4	75·3	74·8	75·2	75·1	75·1	75·4	75·5	75·6	75·6	69·3
5	75·4	75·6	75·6	75·6	75·6	75·6	75·8	76·0	76·2	76·3	76·3	76·5	76·2	76·0	76·0	75·8	76·1	76·0	75·2	75·5	74·4	75·5	75·4	74·7	75·7
6	74·9	74·8	74·5	72·5	74·2	74·1	73·7	74·2	73·0	72·6	73·8	72·8	73·1	73·7	73·0	72·4	72·3	72·2	70·8	71·9	72·5	71·9	71·6	71·5	73·1
7	71·0	70·5	70·3	71·3	71·4	70·3	71·2	71·8	71·8	71·9	72·5	72·8	73·4	72·9	73·5	73·0	73·7	73·3	74·3	74·4	73·5	74·4	74·1	73·7	72·5
8	73·9	74·2	74·2	74·3	74·0	73·2	72·9	73·0	73·5	73·3	74·2	74·6	74·9	75·0	74·7	74·2	73·8	73·7	74·0	73·7	73·9	74·2	72·9	73·9	73·9
9	73·5	74·0	73·8	74·0	74·0	73·8	73·8	73·8	73·8	73·7	73·4	73·7	74·0	72·5	73·9	73·7	73·5	73·2	72·9	72·9	72·9	74·6	74·4	74·3	73·7
10	74·0	73·8	73·7	73·5	73·4	73·2	73·0	73·1	73·9	74·5	75·7	75·8	76·3	76·3	75·6	76·0	75·7	75·1	75·4	75·7	75·6	75·4	75·4	74·6	74·8
11	74·7	74·8	75·2	74·6	74·6	74·7	74·4	74·3	74·3	74·4	74·7	75·2	75·0	74·8	75·1	74·3	74·1	73·8	73·5	73·4	73·6	73·2	73·3	73·1	74·3
12	73·0	73·5	73·6	73·5	73·3	73·0	72·7	73·8	73·9	74·9	75·2	75·6	76·0	76·3	76·4	76·3	75·6	74·8	73·8	73·4	72·6	72·3	71·8	71·6	74·1
13	71·0	70·4	70·7	70·1	70·2	70·5	70·2	70·4	71·1	72·0	73·2	74·2	74·6	75·2	75·2	74·8	74·4	73·7	72·0	71·3	70·8	71·0	70·7	70·8	72·0
14	71·0	71·2	70·4	70·3	69·3	69·0	69·4	70·2	71·3	71·6	73·4	74·3	75·9	75·3	75·2	74·4	74·3	74·6	73·8	73·0	72·3	71·5	71·8	72·0	72·3
15	71·2	70·6	70·4	69·7	67·2	67·0	66·4	67·2	68·6	70·6	73·1	76·5	77·7	77·7	77·8	77·6	77·4	76·9	76·5	76·6	76·8	76·6	77·1	77·0	73·4
16	76·8	76·5	76·4	76·0	75·8	76·3	77·3	77·5	77·7	77·5	77·7	78·2	78·9	79·1	78·5	78·4	77·8	77·3	77·2	77·0	76·9	76·7	76·1	76·4	77·3
17	76·5	76·4	76·2	76·0	76·2	76·3	76·4	76·9	77·4	77·6	77·9	78·2	78·2	77·9	78·0	77·5	77·1	77·0	77·0	76·9	76·8	76·6	76·5	76·3	77·0
18	76·3	76·3	76·4	76·5	76·5	76·8	77·0	77·2	77·5	77·4	77·7	78·0	78·3	78·2	78·1	78·0	77·9	77·9	77·8	77·7	77·5	77·4	77·3	77·2	77·3
19	77·2	77·1	77·0	76·9	77·0	77·2	77·1	77·1	77·6	78·0	78·4	79·1	79·5	79·9	79·9	80·3	80·1	78·9	77·8	79·0	78·5	79·0	79·4	78·7	78·3
20	78·4	78·6	78·7	78·7	78·9	79·0	79·0	79·5	80·0	81·0	82·0	82·7	82·3	82·1	81·8	81·1	81·0	80·3	79·9	79·7	79·6	78·7	78·5	78·3	80·0
21	78·2	77·8	77·8	77·4	76·7	76·5	76·8	77·9	78·9	79·5	81·0	82·8	82·7	84·8	82·5	82·3	81·1	80·5	79·9	79·4	79·3	79·4	79·6	79·4	79·7
22	80·1	80·0	80·2	79·9	78·6	77·7	78·5	80·1	81·3	83·2	84·8	85·5	85·1	85·4	85·3	84·4	82·5	84·2	83·5	82·8	81·9	80·8	79·9	80·5	**81·9**
23	80·2	79·7	79·3	79·2	79·1	79·0	79·0	79·4	79·3	79·8	79·9	80·4	80·3	80·2	79·9	79·8	79·5	79·0	78·5	78·1	77·9	77·8	77·7	77·4	79·2
24	77·3	77·3	76·5	75·1	74·9	74·0	75·4	76·4	78·4	79·3	80·0	79·6	79·5	79·6	79·7	79·6	79·1	78·5	78·2	77·9	77·2	76·4	75·6	74·9	77·6
25	74·5	74·6	74·3	74·9	75·3	75·6	75·5	76·4	77·9	79·0	79·2	79·5	79·5	79·5	78·9	78·9	78·4	77·9	77·2	76·9	76·4	75·9	75·7	75·5	77·0
26	75·2	74·8	74·6	74·3	74·5	74·3	74·5	75·7	76·8	77·4	78·5	78·8	78·9	78·7	78·2	78·2	77·8	77·1	76·5	76·2	75·5	75·3	75·1	73·5	76·3
27	73·7	73·0	73·1	72·6	72·7	73·9	74·5	76·4	78·6	80·7	82·0	82·5	83·2	81·8	81·2	80·9	79·8	79·3	78·8	78·6	78·5	78·2	77·5	76·8	77·8
28	76·2	76·0	75·9	75·3	75·0	74·7	74·8	75·0	75·5	75·7	76·0	76·2	76·1	76·0	76·2	75·8	75·9	75·6	75·4	75·4	75·1	75·2	75·0	75·1	75·6
29	75·4	75·4	75·4	75·5	75·3	75·6	75·9	76·4	77·2	77·9	78·0	78·4	78·1	78·2	77·6	77·8	77·4	77·0	76·6	76·6	76·7	76·8	76·9	76·9	76·8
30	77·0	76·9	77·0	76·2	76·6	76·0	76·5	76·6	77·1	77·3	77·8	77·8	77·6	77·5	77·2	77·7	77·6	77·3	77·2	77·0	76·8	76·7	76·6	76·7	77·0
31	76·6	76·5	76·4	76·8	76·8	76·7	77·1	77·2	77·4	77·2	77·3	77·5	77·4	77·5	77·0	76·9	76·4	76·2	76·0	75·8	75·8	75·8	75·9	75·9	76·7
Mean ...	74·5	74·4	74·3	74·0	73·8	**73·7**	73·8	74·3	75·0	75·6	76·4	76·9	77·2	**77·3**	77·2	76·9	76·5	76·1	75·7	75·6	75·3	75·2	74·9	74·6	75·4

87. Aberdeen : North Wall Screen on Tower : h_t = 12·5 metres. **April, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	75·7	75·8	75·8	75·9	75·9	75·9	76·4	76·6	76·9	77·2	77·4	77·5	77·8	77·8	77·6	77·4	77·0	76·5	76·3	76·2	76·1	76·0	76·0	76·1	76·6
2	75·9	75·8	76·0	76·3	76·5	76·9	77·0	77·3	77·6	78·2	78·4	77·4	77·3	76·5	76·3	75·8	75·6	76·0	76·0	75·4	75·4	74·8	74·4	74·4	**76·3**
3	74·3	74·2	74·4	74·7	75·0	75·4	75·7	75·6	77·7	78·6	79·3	80·3	80·4	81·0	80·4	80·3	80·1	79·9	78·5	76·4	76·4	74·9	74·5	74·0	77·2
4	74·9	76·2	76·1	76·3	75·2	76·7	77·3	79·0	80·2	80·9	81·4	81·3	82·1	82·3	83·2	82·2	79·0	79·1	78·5	77·8	77·2	76·8	76·5	75·5	78·5
5	74·3	74·7	75·0	75·0	75·5	76·0	76·5	77·3	78·8	79·2	80·2	80·4	80·4	80·3	80·9	81·2	79·6	77·4	77·6	77·4	76·4	76·6	76·0	75·7	77·6
6	75·8	75·4	75·3	75·1	74·3	75·2	75·7	76·9	78·3	79·4	80·1	80·7	80·6	81·2	80·9	80·7	79·8	79·5	78·2	77·6	77·2	76·9	76·8	76·4	77·8
7	76·3	76·1	76·0	75·6	75·7	76·3	77·3	78·1	80·0	81·3	81·1	82·2	81·6	81·2	81·0	80·4	79·7	79·3	78·8	79·0	79·0	78·9	78·9	78·8	78·8
8	78·7	78·6	78·5	78·6	78·6	78·7	78·8	79·0	79·3	79·4	79·5	79·6	79·7	80·0	79·8	79·6	79·4	79·5	79·2	79·5	79·8	79·6	79·5	79·9	79·3
9	80·0	79·8	79·9	79·9	80·1	79·9	90·9	81·4	82·3	82·8	84·0	83·5	85·3	85·0	85·5	83·9	83·3	83·0	82·4	81·9	81·6	81·6	80·6	79·6	82·0
10	79·0	78·6	77·4	76·3	76·1	75·8	76·9	79·1	81·0	83·5	83·1	83·4	86·2	86·0	87·0	85·0	84·0	84·4	86·0	85·6	85·1	84·5	84·4	83·9	82·1
11	83·8	83·7	83·1	82·8	82·7	83·0	82·9	83·4	84·4	85·8	87·2	87·4	88·0	88·3	87·7	87·4	87·5	87·5	85·4	84·3	84·7	84·5	84·4	83·7	**85·2**
12	80·8	81·1	80·7	80·1	79·6	79·7	79·4	80·0	80·6	81·2	82·0	83·0	83·8	82·5	82·4	83·2	80·5	80·1	80·1	78·9	77·2	77·5	77·0	76·6	80·5
13	76·6	76·3	76·4	76·1	76·2	76·8	78·0	79·2	80·2	81·0	82·3	81·9	83·2	83·1	83·0	83·1	82·9	82·7	82·3	81·4	81·4	81·2	81·1	80·4	80·2
14	80·4	80·4	80·2	80·2	80·0	80·1	80·5	81·0	81·5	82·4	82·2	82·2	82·1	81·9	81·4	81·7	81·6	81·1	80·6	79·4	79·0	78·3	78·1	78·3	80·7
15	78·4	78·2	78·1	78·2	78·0	78·0	78·3	79·0	79·8	80·6	82·3	82·9	82·4	83·6	83·7	83·2	83·0	81·4	81·4	80·7	80·2	79·6	79·4	79·4	80·4
16	78·8	78·8	78·6	78·3	78·0	78·7	80·0	81·0	81·5	81·3	81·5	82·4	83·3	82·6	82·5	81·6	81·5	81·9	79·5	78·0	77·9	76·8	76·5	76·3	80·0
17	76·2	75·6	76·2	76·2	75·4	76·0	77·3	77·3	77·4	78·3	78·5	80·2	78·9	76·5	78·3	77·6	77·8	78·2	77·5	77·4	77·5	77·6	77·2	77·1	77·3
18	77·2	77·7	77·1	76·8	77·0	77·2	77·8	78·8	79·2	79·9	80·4	79·7	79·9	80·2	80·3	80·2	80·0	79·9	79·1	78·2	77·7	77·6	77·9	77·6	78·6
19	77·5	77·4	77·4	77·4	77·4	77·6	78·2	78·8	79·0	79·3	79·8	80·0	79·4	79·6	79·2	79·8	79·4	79·6	78·5	78·1	78·2	77·9	77·8	77·7	78·5
20	78·0	77·7	77·7	77·5	77·1	77·2	78·4	78·5	79·1	79·5	80·0	79·7	78·8	79·2	78·9	79·5	78·7	78·6	78·2	77·4	77·3	77·2	76·4	76·0	78·2
21	75·8	75·5	75·4	75·8	75·8	76·3	77·6	78·4	79·3	80·2	81·2	80·8	80·3	81·6	81·5	80·1	79·8	79·4	79·0	78·0	77·8	77·3	76·9	76·2	78·3
22	75·6	76·2	76·3	76·3	76·1	76·0	76·4	77·2	78·0	78·4	78·4	79·2	78·5	79·7	78·8	79·1	79·0	79·1	79·0	78·0	77·0	76·1	75·3	75·5	77·5
23	74·7	74·2	74·0	73·6	73·2	74·3	76·3	77·7	78·7	79·3	80·4	80·5	79·8	79·4	79·2	79·8	80·6	80·3	79·9	79·4	78·9	79·1	78·9	78·7	77·9
24	78·4	78·3	78·4	78·6	78·9	79·2	80·2	80·2	80·4	81·1	82·3	82·0	81·6	81·0	80·9	80·9	80·5	80·1	80·2	80·3	80·1	80·3	80·3	79·9	80·1
25	79·8	79·9	79·7	79·6	79·6	79·7	79·9	79·7	79·8	79·8	79·5	79·5	79·6	79·9	79·8	79·9	79·7	79·5	79·5	79·5	79·4	79·3	79·4	79·7	79·7
26	79·7	79·7	79·5	79·3	79·2	79·2	79·1	79·4	79·4	79·6	79·8	79·7	79·5	79·9	79·6	79·3	79·1	79·0	79·1	79·0	79·0	79·0	79·0	78·9	79·3
27	79·0	79·0	79·0	78·9	79·0	79·1	79·3	79·8	80·2	79·9	79·3	78·0	78·0	78·8	79·2	79·4	79·6	79·6	79·0	78·3	78·6	78·5	77·6	76·7	79·0
28	77·7	77·5	76·6	76·5	76·5	77·0	77·9	78·8	79·4	80·1	80·7	80·4	80·6	80·5	80·6	81·3	81·6	81·7	81·4	80·3	79·0	78·2	77·6	77·7	79·1
29	77·5	77·5	77·5	77·4	78·0	79·2	80·4	81·4	82·5	83·2	83·8	84·0	83·8	84·2	84·3	84·5	84·6	84·9	83·5	81·5	80·6	80·5	80·4	80·6	81·4
30	80·4	80·4	80·2	80·2	80·1	80·2	80·3	81·2	82·4	82·4	82·3	83·1	81·2	82·8	82·4	81·5	80·8	80·3	79·8	79·7	79·8	78·9	78·3	77·8	80·7
Mean ...	77·7	77·7	77·5	77·5	**77·4**	77·7	78·4	79·0	79·8	80·5	80·9	81·1	81·1	**81·2**	81·2	81·0	80·5	80·3	79·8	79·2	78·9	78·5	78·2	78·0	79·3
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75 ·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

88. Aberdeen : North Wall Screen on Tower : h_t (height of thermometer bulb above ground) = 12·5 metres. **May, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	77·5	77·4	77·3	76·7	77·2	77·5	77·5	78·3	80·1	82·0	82·4	83·4	84·0	82·5	80·9	82·1	81·0	79·4	79·3	78·8	78·0	77·5	77·6	77·3	79·4
2	76·7	75·9	75·9	75·8	76·3	77·3	79·5	80·0	80·7	80·8	80·9	81·9	80·7	82·2	81·6	80·6	82·4	81·1	80·2	79·8	79·1	78·0	77·3	76·9	79·2
3	75·8	76·4	75·6	75·1	75·6	77·0	78·4	79·8	81·1	80·3	80·6	80·6	80·6	80·3	80·2	80·3	80·5	80·8	80·2	79·3	78·9	78·5	78·4	78·6	**78·8**
4	78·5	78·3	78·2	78·0	77·3	78·0	78·4	79·3	80·0	80·1	79·8	79·9	80·5	81·2	81·4	81·6	81·7	81·9	81·8	80·5	80·7	81·0	81·0	80·6	79·9
5	80·4	79·9	79·3	78·4	77·8	78·9	80·0	81·4	82·2	82·6	83·0	82·4	82·4	82·2	82·0	81·3	80·6	80·8	80·3	79·9	79·8	79·7	79·6	79·8	80·6
6	80·1	80·1	79·8	79·7	80·0	80·6	80·8	82·0	83·4	84·4	85·0	84·7	84·7	84·2	84·0	83·4	83·6	83·0	82·5	82·3	81·4	81·0	80·7	80·2	82·1
7	79·3	79·1	78·0	78·1	78·0	78·4	80·0	80·3	81·5	82·5	82·7	82·8	82·2	81·8	82·5	82·7	82·2	81·7	81·4	81·2	80·9	80·6	80·8	80·8	80·8
8	80·7	80·6	80·4	80·4	80·5	81·0	81·6	83·4	84·1	84·4	82·7	83·7	83·0	82·5	82·3	81·9	81·6	81·5	81·3	80·9	80·1	79·4	78·4	78·0	81·5
9	77·3	77·0	76·4	76·3	76·4	77·9	79·5	80·9	81·2	81·6	81·7	82·0	82·6	82·4	82·4	81·8	81·2	80·8	80·6	80·4	80·3	80·3	80·3	80·2	80·0
10	80·1	79·9	79·9	79·9	79·9	79·9	80·2	80·3	80·8	81·0	81·7	82·4	83·3	84·8	84·7	84·7	84·4	84·4	84·8	84·2	83·7	83·1	83·2	83·4	82·2
11	83·1	83·5	83·6	83·0	83·1	83·4	83·2	83·2	84·7	86·6	87·5	87·3	87·6	88·3	88·5	87·2	86·3	85·8	85·8	85·2	84·2	83·9	83·5	83·1	85·1
12	82·7	81·6	81·4	81·6	81·8	81·8	82·2	83·2	84·1	85·0	87·0	87·4	88·1	87·8	88·2	88·7	88·8	87·2	86·2	85·3	85·3	84·8	84·4	84·4	84·9
13	83·7	82·8	83·0	83·0	83·1	82·9	83·3	83·4	83·4	84·8	84·8	85·3	86·3	87·2	87·0	85·5	84·6	84·8	83·5	83·0	83·0	82·9	83·2	82·6	84·1
14	82·3	82·4	82·1	81·9	81·9	83·0	83·0	83·6	85·0	84·6	85·9	86·3	85·4	86·0	86·0	85·4	86·6	86·8	86·3	85·1	84·3	83·6	83·0	82·4	84·3
15	82·1	81·8	82·0	81·8	82·7	83·3	83·6	84·8	85·1	86·4	86·6	87·6	87·3	87·5	88·0	87·0	87·9	87·7	87·6	86·6	85·0	84·1	83·1	81·7	85·1
16	80·8	80·8	80·6	80·4	81·0	81·7	82·6	84·4	85·2	86·7	86·3	86·7	87·2	86·8	87·3	84·7	84·9	86·9	84·5	83·4	83·4	83·4	83·1	82·4	84·0
17	82·0	81·4	81·3	80·8	80·8	81·2	81·8	82·1	82·8	83·3	82·5	82·6	82·3	82·3	82·2	82·4	82·8	82·5	81·3	81·2	81·1	80·4	80·2	79·0	81·7
18	78·3	78·1	78·0	78·3	79·4	80·6	81·6	82·4	82·9	83·1	82·9	83·0	83·2	84·4	82·2	82·0	82·1	81·4	81·9	81·1	80·9	80·8	80·7	80·4	81·2
19	80·3	80·2	79·6	79·6	79·5	79·5	80·5	81·4	82·0	82·0	81·8	81·6	81·5	81·6	81·7	81·6	81·1	81·7	81·3	80·2	79·4	77·8	78·4	78·1	80·6
20	78·3	78·0	78·2	78·0	78·0	79·1	80·0	79·7	80·6	81·3	81·0	82·1	82·4	82·4	81·9	81·5	81·3	81·5	81·3	80·3	78·7	77·5	76·2	75·5	79·8
21	75·6	75·4	74·3	73·9	75·9	78·5	80·9	81·8	82·9	83·0	83·2	83·6	83·4	83·0	82·8	82·6	82·3	81·3	81·4	80·7	80·3	80·2	79·9	80·0	80·2
22	80·0	80·1	79·9	79·5	80·2	80·5	80·7	81·3	81·8	81·8	82·1	82·2	82·4	82·6	82·8	83·2	82·5	82·0	81·9	81·7	81·7	81·5	81·3	81·3	81·4
23	81·3	81·1	80·8	80·9	81·0	81·1	81·5	82·1	82·8	84·3	85·2	85·4	84·8	85·0	84·6	84·2	83·0	82·9	82·3	82·1	82·0	82·0	82·0	82·0	82·7
24	82·1	82·2	82·1	82·3	82·2	82·2	82·2	82·3	82·5	82·8	83·3	83·9	84·8	83·4	82·7	83·1	83·0	83·6	84·8	84·7	84·6	84·3	83·7	84·3	83·2
25	83·6	83·3	83·1	83·1	83·4	84·5	84·9	84·8	86·0	87·0	87·0	87·4	88·0	88·4	87·9	87·1	86·8	85·6	86·4	85·3	84·2	84·0	83·5	83·6	85·4
26	83·1	82·9	82·9	83·0	82·9	84·4	86·3	85·6	86·7	86·7	87·2	87·4	87·9	87·5	87·2	87·9	87·1	88·5	87·2	86·5	85·4	84·8	84·0	83·6	**85·7**
27	83·5	82·8	82·3	81·5	81·6	82·8	83·7	84·0	85·0	85·0	85·4	86·4	85·5	86·3	86·3	86·0	86·6	86·4	85·4	84·4	83·5	82·7	82·5	82·4	84·3
28	81·9	81·7	82·0	82·4	83·0	84·3	84·8	85·0	85·3	85·3	85·0	85·4	85·3	85·1	84·9	84·4	84·0	83·6	83·3	82·9	82·7	82·4	82·2	82·4	83·7
29	82·3	82·3	82·3	82·3	82·5	83·0	84·3	85·4	86·2	87·0	88·0	87·8	86·0	86·4	86·5	87·6	87·2	86·3	85·6	84·8	83·7	83·1	82·6	82·0	84·8
30	81·4	81·4	81·4	81·6	81·6	81·8	82·1	82·0	82·0	82·1	82·5	83·5	85·1	85·2	85·3	85·8	86·8	87·7	85·5	84·6	84·0	83·6	83·5	83·3	83·5
31	83·4	82·9	82·5	82·1	82·0	82·0	82·0	81·9	82·1	82·5	83·3	83·3	83·6	83·4	83·5	82·9	82·6	82·5	82·1	82·2	82·1	82·0	81·9	81·8	82·6
Mean ...	80·6	80·4	80·1	**80·0**	80·2	80·9	81·6	82·3	83·0	83·6	83·8	84·2	84·3	**84·3**	84·2	83·9	83·8	83·6	83·2	82·5	82·0	81·6	81·3	81·0	82·4

89. Aberdeen : North Wall Screen on Tower : h_t = 12·5 metres. **June, 1931.**

Day	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	82·0	82·0	82·1	82·0	82·0	82·2	82·3	82·3	82·1	81·8	81·4	81·5	81·4	81·4	81·4	81·4	81·3	81·0	80·8	80·4	80·0	79·9	79·8	80·0	81·4
2	79·8	79·7	79·6	79·5	79·5	80·0	80·6	81·0	81·8	82·4	82·9	83·3	83·5	83·5	81·9	81·7	81·5	81·5	81·4	81·1	80·8	80·5	80·2	79·8	81·1
3	79·4	79·1	78·8	78·9	79·4	80·7	81·6	81·2	81·3	81·7	81·6	81·7	81·9	81·9	81·8	82·0	81·6	81·5	81·6	81·2	81·2	81·2	81·1	81·0	80·9
4	80·7	80·9	80·5	80·6	80·7	80·8	80·9	80·9	80·6	80·5	80·4	80·5	80·9	81·2	81·7	81·6	81·6	81·3	81·1	80·9	80·7	80·2	80·1	80·0	80·8
5	79·9	80·0	80·2	80·3	80·6	80·9	81·4	81·8	82·1	82·3	82·7	82·8	82·8	82·8	82·8	82·5	81·9	81·6	81·3	81·0	80·8	80·6	80·5	80·4	81·4
6	80·2	80·0	80·0	79·9	80·0	80·1	80·4	80·4	80·8	81·0	81·0	81·2	81·6	81·6	81·5	81·5	81·3	81·3	80·9	80·9	80·6	80·0	80·1	79·9	**80·7**
7	80·2	79·8	79·5	79·1	79·3	80·4	80·9	81·2	81·9	82·6	82·5	82·5	82·7	82·9	82·6	83·0	82·8	82·4	82·2	82·1	81·9	81·9	81·8	81·9	81·5
8	81·8	81·7	81·7	81·8	82·1	82·2	82·4	82·6	82·8	83·0	83·7	83·8	84·2	84·4	84·0	83·4	83·2	82·7	82·4	82·2	82·0	81·9	82·0	82·0	82·7
9	81·9	81·9	82·1	82·2	82·4	82·5	82·6	82·8	82·9	83·0	83·5	83·7	83·6	83·7	83·0	82·7	83·1	82·8	82·7	82·9	82·8	82·8	82·9	82·9	82·8
10	82·9	83·0	83·0	83·1	83·3	83·7	84·1	84·2	85·0	85·4	85·9	85·2	86·4	86·6	86·5	86·1	85·2	84·8	84·0	83·8	83·7	83·9	84·0	84·0	84·5
11	84·1	84·4	84·4	84·3	84·4	84·7	86·4	87·5	90·1	90·4	87·8	89·6	89·7	89·3	89·6	88·6	88·1	87·6	86·9	85·8	83·8	82·6	82·2	81·7	86·5
12	82·0	82·0	81·5	81·7	82·2	83·7	84·7	85·0	86·8	86·8	87·2	87·4	87·0	85·8	87·0	87·0	86·3	86·0	85·5	84·7	84·6	84·5	83·7	82·4	84·8
13	82·0	82·2	82·4	81·3	81·1	83·4	85·2	85·6	86·0	86·0	85·9	86·1	86·5	86·1	86·1	85·6	86·0	85·3	85·0	84·7	84·5	84·3	84·2	83·9	84·5
14	83·9	83·9	83·8	83·6	83·5	83·5	83·8	84·0	84·1	84·2	84·2	84·0	84·2	84·2	84·4	84·3	84·2	83·8	83·7	83·7	83·1	83·0	83·1	82·9	83·8
15	82·8	83·1	82·9	83·0	83·7	85·1	85·9	85·8	85·8	87·3	88·4	89·1	89·8	91·0	91·8	90·2	90·5	89·8	88·9	88·0	87·0	86·6	86·3	85·8	87·0
16	85·3	84·9	84·9	84·3	84·1	84·4	84·6	84·5	84·9	84·8	87·0	87·5	88·8	89·2	91·7	88·0	90·7	90·4	89·4	89·1	87·9	87·2	86·2	85·4	86·9
17	84·2	84·0	83·4	83·0	83·8	86·1	86·4	86·9	87·7	87·5	88·1	85·6	85·7	85·7	83·9	84·2	84·7	86·2	86·6	85·5	84·6	84·3	83·4	83·4	85·2
18	83·4	83·4	83·2	83·1	83·5	84·5	86·3	86·6	86·8	87·2	88·3	88·2	87·1	86·9	86·2	86·0	85·1	84·6	85·1	84·4	83·9	83·5	83·0	82·6	85·1
19	82·5	82·4	82·2	82·0	82·0	82·2	82·5	83·6	84·4	84·7	83·8	82·7	83·4	82·6	83·7	83·8	83·6	83·1	82·7	82·1	81·0	79·8	79·0	78·4	82·5
20	78·6	79·5	80·0	80·1	80·6	81·0	81·4	81·8	83·0	83·6	84·4	85·2	85·6	86·0	85·4	84·4	85·4	87·1	87·0	86·3	85·2	84·9	84·4	84·4	83·4
21	84·6	84·7	84·6	85·3	86·1	86·5	89·1	90·5	91·3	91·3	90·9	90·6	91·2	92·4	93·4	93·2	92·9	91·4	91·5	90·6	89·4	88·3	87·5	87·4	**89·3**
22	86·9	86·9	87·3	82·9	82·5	84·7	86·0	85·6	86·1	86·9	87·3	87·9	86·9	88·2	87·7	87·8	87·0	86·9	86·1	85·0	83·8	83·5	82·8	82·0	85·9
23	82·0	81·5	81·0	81·0	82·2	83·4	84·5	85·2	85·4	84·6	84·4	84·8	85·0	84·6	84·0	83·2	83·3	83·0	82·6	82·2	82·2	81·6	81·5	81·4	83·1
24	80·8	79·4	78·3	78·1	79·5	81·7	82·8	83·2	83·0	83·6	83·1	83·3	83·6	83·6	83·4	83·8	83·7	83·5	82·7	82·4	82·4	82·3	82·2	82·3	82·2
25	81·7	80·6	80·4	80·6	81·2	82·7	84·6	85·9	87·3	87·2	87·4	88·0	89·2	87·7	88·0	87·6	87·9	88·1	87·8	88·0	86·5	85·5	84·7	84·2	85·5
26	84·6	83·4	83·2	83·4	84·8	87·2	88·2	88·8	90·2	92·1	93·5	93·3	94·1	94·0	92·9	92·0	91·3	91·1	90·6	90·0	89·5	89·2	89·1	88·4	89·3
27	87·2	87·6	88·2	88·8	89·9	91·3	91·0	90·2	92·3	93·3	94·0	90·0	87·5	87·0	86·8	86·8	88·0	86·8	86·4	86·8	87·2	86·3	85·5	85·6	88·6
28	86·3	85·4	85·1	84·9	86·2	87·3	87·2	87·6	88·1	89·2	87·6	88·4	89·0	89·0	89·1	86·9	88·7	90·8	89·1	88·0	86·4	85·8	85·1	84·6	87·3
29	83·4	83·2	82·7	82·8	83·6	84·5	85·6	85·3	85·6	85·0	87·1	87·1	87·5	88·0	87·6	87·0	85·2	84·0	83·5	83·5	83·2	83·1	82·8	82·8	84·8
30	83·1	82·7	82·7	82·9	83·0	83·8	84·4	85·4	86·5	86·2	86·8	88·0	87·8	87·4	86·4	86·4	87·5	87·0	86·0	85·4	85·1	84·8	84·7	84·7	85·3
Mean ...	82·6	82·4	82·3	**82·1**	82·6	83·5	84·3	84·6	85·2	85·5	85·8	85·8	86·0	**86·0**	85·9	85·4	85·5	85·2	84·9	84·4	83·9	83·5	83·1	82·9	84·3
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

90. Aberdeen : North Wall Screen on Tower : h_t (height of thermometer bulb above ground) = 12·5 metres. **July, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	84·8	84·9	84·5	84·5	84·6	84·6	85·2	86·0	86·5	87·9	88·5	88·8	88·8	88·5	87·6	87·7	87·3	86·5	86·5	86·5	86·4	86·0	85·9	85·5	86·4
2	85·4	85·1	84·6	84·8	84·8	85·1	85·3	85·6	86·6	87·6	89·1	89·2	89·5	90·8	89·9	89·3	88·0	87·3	87·6	87·2	87·1	86·8	85·8	84·4	87·0
3	84·2	83·2	82·3	82·7	85·2	85·4	86·9	86·7	88·0	88·3	87·6	87·0	87·2	87·7	88·4	87·6	90·0	87·6	87·5	87·2	87·3	88·2	87·6	87·0	86·6
4	86·5	86·4	86·3	86·0	85·8	86·3	87·2	88·4	89·9	89·7	90·5	90·6	90·8	90·5	91·3	90·0	89·1	88·7	89·3	89·4	87·3	87·1	86·8	86·2	88·4
5	86·3	84·8	84·4	85·3	85·5	86·0	88·0	88·0	89·0	88·3	89·7	89·5	90·1	90·4	89·5	89·2	89·4	88·3	87·7	87·3	87·0	86·3	85·6	84·6	87·5
6	84·4	84·3	84·1	83·8	83·8	84·2	84·0	84·0	84·8	84·8	85·4	85·5	85·5	86·4	85·9	85·9	86·1	86·0	86·4	86·4	86·2	86·1	86·0	85·8	85·2
7	86·0	85·8	85·8	85·8	86·0	86·4	87·1	87·5	88·1	88·3	88·3	86·4	87·0	86·8	86·9	87·4	87·3	87·4	87·2	86·6	86·3	86·3	86·2	86·2	86·8
8	86·2	86·4	86·2	86·1	85·6	86·5	86·7	87·0	88·0	88·4	88·8	88·2	88·5	88·3	88·0	88·6	88·6	89·6	89·2	87·9	87·4	87·4	87·3	87·1	87·6
9	87·0	87·2	87·6	87·4	87·4	87·8	88·3	88·0	87·4	87·6	89·4	90·3	89·0	88·8	89·4	88·6	88·4	86·4	85·7	85·1	84·5	84·2	83·8	83·6	87·3
10	83·4	83·4	83·4	83·0	82·6	83·5	83·5	83·6	84·4	84·4	84·0	84·5	84·9	86·1	86·8	86·8	86·4	85·6	85·3	84·9	84·5	84·3	84·1	83·8	84·5
11	83·7	83·7	83·6	83·5	83·6	84·0	84·4	84·6	85·1	85·5	86·3	86·6	86·5	86·0	85·0	84·8	84·9	85·0	85·2	85·3	85·2	85·2	85·1	84·9	84·9
12	85·0	85·0	84·8	84·9	84·7	85·0	85·0	85·2	85·2	85·4	86·4	86·6	87·1	87·9	87·0	86·5	86·2	86·0	86·3	86·0	85·8	85·8	86·1	85·4	85·8
13	85·4	85·6	85·5	85·5	85·7	85·7	87·9	88·1	89·0	88·5	88·0	89·4	90·1	90·4	88·8	88·8	88·1	88·0	88·8	87·4	87·6	87·2	86·6	86·2	87·6
14	85·3	85·2	84·2	84·3	85·2	87·0	88·3	89·4	90·0	89·1	88·2	89·6	88·5	88·3	88·1	87·8	86·4	85·7	85·4	85·2	85·0	84·7	84·7	85·0	86·7
15	85·2	85·4	85·3	85·2	85·2	85·3	85·7	85·8	85·8	86·0	87·6	86·5	86·8	87·0	87·0	86·4	86·4	87·7	86·5	86·4	86·3	86·0	85·7	85·6	86·1
16	85·7	85·6	85·6	85·6	85·6	85·8	86·2	86·5	87·8	86·8	87·5	87·5	87·2	87·3	87·0	87·0	87·3	86·7	86·3	86·1	86·0	85·9	85·7	85·6	86·4
17	85·4	85·1	85·1	85·0	85·0	85·3	85·5	85·5	86·1	87·0	88·0	88·4	87·8	88·4	87·6	87·5	87·1	86·3	86·3	86·8	86·7	86·4	86·1	85·7	86·4
18	85·6	85·4	85·5	85·5	85·6	85·4	85·3	85·3	85·5	85·6	85·3	86·3	86·2	86·0	87·3	88·1	87·3	86·6	86·7	86·6	86·2	85·9	86·0	85·6	86·0
19	85·3	85·0	84·9	84·5	84·6	84·7	85·5	86·2	85·0	84·2	85·6	86·1	86·4	87·5	88·2	86·7	85·1	85·3	84·5	83·7	83·4	83·4	83·2	82·4	85·1
20	82·4	82·1	81·7	81·7	81·4	81·6	82·0	82·8	83·4	83·5	83·3	84·8	84·4	85·4	86·2	86·5	87·1	87·4	87·4	86·4	84·0	82·9	82·8	83·4	**83·9**
21	83·1	82·6	82·4	82·3	83·2	84·3	85·3	86·0	86·6	87·5	88·1	89·3	88·4	88·3	87·3	87·4	87·9	87·8	88·2	86·5	86·1	85·5	85·4	85·3	86·0
22	85·4	85·6	86·2	86·2	86·3	87·2	88·2	90·1	91·5	92·7	94·0	92·4	92·3	92·0	92·3	90·5	90·5	89·5	90·1	89·3	87·8	88·4	88·6	88·4	**89·3**
23	87·9	87·9	87·0	86·5	86·4	87·4	88·2	89·0	89·5	90·2	91·3	91·3	91·2	90·8	91·1	89·9	89·5	89·8	89·9	89·2	88·4	87·9	87·4	87·3	89·0
24	87·3	86·7	86·4	85·7	85·7	86·0	86·6	87·5	88·4	88·4	88·8	88·8	88·9	88·9	88·3	87·7	87·6	87·1	86·7	86·2	86·6	86·0	86·1	85·8	87·2
25	85·9	85·4	85·1	84·4	84·6	84·8	85·3	86·3	87·2	86·7	86·5	86·4	86·4	86·3	86·4	86·6	86·0	86·0	86·0	86·3	86·3	86·2	86·2	86·2	86·0
26	86·3	86·3	86·3	86·4	86·4	86·4	86·4	86·2	86·2	86·7	86·8	86·9	86·8	86·8	86·9	86·5	86·4	86·1	86·0	85·9	85·8	85·7	85·4	85·3	86·3
27	85·4	85·4	85·3	85·2	85·1	85·1	85·4	85·7	86·7	87·4	88·7	89·3	90·3	90·1	88·6	88·7	88·5	88·1	88·1	87·4	86·5	86·5	86·2	86·0	87·1
28	86·0	86·2	86·3	86·5	86·4	86·5	87·1	87·7	88·0	87·3	87·3	86·7	86·9	86·9	86·8	87·8	87·4	86·8	86·8	86·9	86·5	86·4	86·4	85·9	86·8
29	85·7	85·5	85·4	84·9	84·5	84·7	86·7	86·5	87·2	88·3	87·5	88·3	88·3	88·4	88·0	87·0	87·3	86·3	86·4	86·0	85·9	86·0	86·5	86·5	86·6
30	86·2	85·7	85·7	85·5	85·6	85·6	86·4	88·2	89·9	89·0	89·7	89·8	89·4	90·1	87·2	87·3	86·8	87·1	86·8	86·6	86·9	86·9	86·8	86·8	87·3
31	86·5	86·5	86·3	86·0	85·8	85·8	86·1	86·4	87·0	87·5	88·2	88·2	88·2	88·1	87·5	87·8	87·2	87·2	87·5	87·3	87·0	87·0	86·5	86·0	87·0
Mean ...	85·4	85·3	85·1	**85·0**	85·1	85·5	86·1	86·6	87·2	87·4	87·9	88·0	88·0	**88·2**	87·9	87·7	87·5	87·1	87·0	86·6	86·3	86·1	85·9	85·6	86·6

91. Aberdeen : North Wall Screen on Tower : h_t = **12·5** metres. **August, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	85·5	85·3	84·6	84·4	83·9	84·2	85·5	87·3	87·7	88·5	88·9	89·3	90·3	90·0	89·0	89·3	88·9	89·3	89·0	88·9	88·8	88·7	88·5	88·3	**87·6**
2	88·2	88·0	87·7	87·6	87·5	87·3	87·2	87·3	87·8	88·3	88·3	88·4	88·1	88·0	87·7	87·6	87·9	87·8	87·0	86·4	86·3	86·3	86·1	85·9	87·5
3	85·9	85·6	85·4	85·3	85·2	84·8	84·9	85·1	85·4	85·4	85·7	86·0	86·3	86·5	85·8	85·6	85·4	85·3	84·9	84·8	84·6	84·4	84·4	84·3	85·3
4	84·3	84·2	84·0	83·9	83·4	83·2	83·7	84·0	84·5	85·0	85·5	85·9	85·7	85·5	85·4	85·4	85·1	84·8	84·4	84·3	84·0	84·1	83·8	83·5	84·5
5	83·5	83·4	82·9	82·9	83·0	82·9	82·6	83·0	84·2	84·4	84·6	84·8	84·8	85·1	84·8	84·8	84·8	84·7	84·6	83·9	84·1	83·9	83·5	83·4	83·9
6	82·8	82·4	82·6	83·4	83·6	83·9	84·2	85·0	85·6	86·8	86·9	87·6	88·5	90·3	91·0	90·2	89·5	88·9	87·9	87·5	87·1	86·1	85·5	85·2	86·3
7	84·8	84·5	83·7	83·5	83·6	84·3	85·0	85·5	86·5	86·5	87·6	88·3	88·2	87·6	87·9	88·0	88·0	87·8	86·9	85·3	84·6	83·4	82·6	82·9	85·8
8	83·1	82·7	82·4	81·9	82·6	83·4	84·4	84·4	85·3	85·3	85·7	85·2	85·6	85·0	84·7	84·8	84·6	84·1	83·4	82·4	82·3	81·5	81·8	81·6	83·7
9	81·4	80·9	80·8	81·0	80·7	81·3	81·6	82·5	83·1	83·3	84·0	84·5	84·8	84·8	85·5	84·8	85·0	84·1	83·7	83·4	82·9	82·1	81·6	81·7	82·9
10	81·6	81·6	81·7	81·8	81·9	82·5	83·1	84·5	85·2	85·9	86·3	86·2	86·3	86·9	86·7	85·9	85·5	85·4	84·1	83·3	82·0	81·9	82·4	82·6	83·9
11	82·6	82·0	82·4	81·8	81·5	83·4	84·9	85·8	86·6	86·7	88·3	88·5	88·2	88·1	86·8	88·2	87·7	88·1	88·1	86·8	86·6	86·0	85·4	85·9	85·8
12	85·8	85·9	85·7	85·5	85·5	85·6	86·3	86·5	87·2	88·3	88·4	88·9	89·0	87·4	87·3	86·4	86·6	86·0	85·8	85·6	85·8	86·2	86·2	86·0	86·6
13	85·9	85·5	85·2	85·0	85·0	84·7	84·6	84·7	85·0	85·1	85·1	85·5	84·9	85·6	86·4	86·4	85·8	85·4	85·2	84·8	84·5	84·2	84·3	84·1	85·2
14	83·9	84·1	84·1	84·0	84·0	84·3	84·6	84·9	85·5	85·8	85·7	85·5	85·4	85·5	85·7	85·2	85·3	85·5	84·5	84·4	84·2	83·6	82·9	82·5	84·7
15	82·5	82·6	82·4	81·8	81·4	81·7	83·5	84·9	85·1	85·7	85·5	85·9	86·0	86·1	86·0	85·8	85·7	85·6	85·5	85·4	85·3	85·3	85·2	85·2	84·5
16	85·2	85·1	85·4	85·3	85·3	85·4	85·9	86·0	86·1	86·3	86·8	86·8	87·0	86·9	86·8	86·6	86·6	86·3	86·3	86·3	86·3	86·2	86·3	86·2	86·1
17	86·2	86·2	86·1	86·2	86·2	86·2	86·2	86·3	86·8	86·5	87·0	88·2	87·5	87·6	87·3	87·1	87·3	87·0	86·9	86·5	86·6	86·4	86·4	86·0	86·7
18	85·7	85·3	84·5	84·5	84·4	85·2	86·3	86·7	87·5	87·5	87·4	87·1	87·1	87·5	86·8	86·1	85·9	85·5	85·6	85·5	85·5	85·4	85·4	85·4	86·0
19	85·4	85·4	85·4	85·3	85·2	85·3	85·4	85·6	86·0	86·0	86·6	86·5	86·5	86·2	85·9	85·9	86·0	85·7	85·6	85·7	85·5	85·7	85·4	85·1	85·7
20	84·9	85·2	85·2	85·2	85·2	85·2	85·4	85·4	85·2	85·3	85·2	85·3	85·3	85·4	85·5	85·4	85·4	85·2	85·0	85·0	85·0	85·0	84·9	84·8	85·2
21	84·6	84·4	84·5	84·5	84·8	85·2	85·3	85·0	85·1	84·5	84·5	85·4	85·2	85·3	84·3	84·5	84·4	84·2	83·5	82·9	82·7	82·6	81·4	81·1	84·2
22	80·9	80·4	80·4	80·5	79·5	79·7	81·0	82·5	83·2	82·5	84·2	83·6	84·1	84·5	84·9	84·7	84·0	83·7	82·9	81·5	81·9	79·9	79·3	80·1	82·1
23	79·6	79·7	79·3	79·5	79·2	80·0	81·6	82·3	82·5	83·6	83·5	84·4	84·9	84·8	85·3	84·2	84·2	83·2	82·7	81·7	80·6	80·2	79·5	79·6	**81·9**
24	79·0	79·2	79·2	79·6	80·5	80·8	81·9	83·0	83·6	83·4	84·7	84·8	85·1	85·4	85·9	85·5	85·4	85·0	84·3	83·1	82·8	83·0	82·7	82·0	82·9
25	82·3	82·3	82·3	81·7	81·4	82·3	83·3	84·0	85·0	85·5	86·6	85·0	85·3	85·3	85·4	84·8	84·6	84·5	84·1	83·9	83·6	83·1	82·7	83·0	83·8
26	82·9	82·8	82·9	82·8	82·3	83·0	83·7	85·2	86·4	87·2	88·0	87·6	88·2	87·8	87·6	87·9	87·4	87·6	86·8	85·9	85·6	85·0	84·6	83·9	85·5
27	83·3	82·3	81·6	81·3	80·3	80·3	82·5	86·0	88·0	89·4	90·1	90·3	89·4	89·2	89·4	89·3	88·4	88·0	87·4	86·4	86·1	86·0	85·6	85·4	86·1
28	84·8	84·4	84·3	83·8	84·2	84·4	85·0	85·9	86·2	86·2	86·8	87·1	87·9	87·8	87·7	87·4	87·1	86·7	85·8	85·0	83·7	83·5	82·8	82·4	85·5
29	81·9	82·4	83·2	83·4	83·5	84·6	85·4	86·0	87·5	87·3	87·2	86·8	87·1	86·6	86·5	86·5	86·5	86·7	85·8	84·9	83·4	82·1	81·6	80·6	84·9
30	79·4	79·4	79·7	80·1	80·1	80·3	81·3	82·4	83·4	84·6	84·6	84·6	85·1	85·4	85·3	85·0	84·7	84·8	84·3	82·7	81·5	80·2	80·3	80·1	82·5
31	80·2	81·0	80·2	80·0	79·9	79·5	79·8	80·2	81·2	81·4	82·8	83·0	84·0	84·8	85·1	85·4	85·5	85·2	83·8	83·1	82·1	80·4	80·2	79·8	82·0
Mean ...	83·5	83·4	83·2	83·1	**83·1**	83·4	84·1	84·8	85·4	85·7	86·2	86·4	86·5	**86·5**	86·5	86·3	86·1	85·9	85·3	84·8	84·4	83·9	83·7	83·5	84·8
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

92. Aberdeen : North Wall Screen on Tower : h_t (height of thermometer bulb above ground) = 12·5 metres. **September, 1931.**

Hour. G.M.T. / Day.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	80·3	80·3	81·5	81·9	82·0	82·4	82·8	83·0	83·0	84·6	85·0	85·2	84·9	85·3	85·0	84·8	84·4	84·4	84·1	84·1	84·1	84·2	84·3	84·3	83·5
2	84·1	83·5	83·5	83·6	83·9	83·8	83·9	83·2	83·1	82·9	82·7	83·2	83·3	83·2	84·0	83·9	84·0	82·9	82·5	82·6	82·4	82·6	82·6	82·7	83·3
3	82·5	82·5	82·4	82·0	82·2	82·4	83·1	83·7	84·1	84·7	85·2	85·4	85·2	85·0	85·0	85·0	84·5	84·0	82·8	82·2	81·6	81·8	81·9	82·0	83·4
4	81·8	82·2	81·6	81·8	81·7	82·1	82·4	83·4	84·5	83·2	85·2	85·7	85·1	85·5	85·3	85·0	84·6	84·3	83·3	82·6	82·6	82·6	82·9	82·9	83·4
5	82·8	82·8	82·5	82·2	81·9	82·3	82·6	83·5	84·1	84·8	84·9	85·3	84·1	84·5	84·8	85·0	83·8	83·6	82·4	81·6	80·8	81·0	80·3	80·6	83·1
6	80·3	80·0	80·1	79·6	79·7	80·0	80·8	81·7	82·3	83·5	83·4	83·8	84·9	84·3	83·4	83·4	83·7	83·3	81·4	80·4	80·0	80·2	80·1	80·4	81·7
7	80·5	80·8	80·3	80·8	80·7	81·1	81·7	82·0	82·7	82·3	83·5	83·8	84·0	83·9	85·2	84·3	84·2	83·2	82·1	81·8	81·5	81·4	81·5	80·4	82·2
8	80·1	80·3	81·3	81·4	81·5	81·4	82·0	84·4	83·8	85·1	85·0	86·0	86·4	86·8	85·5	83·6	83·8	83·5	83·0	81·6	81·5	81·4	80·3	80·0	82·9
9	79·4	78·6	79·1	78·5	78·4	78·6	80·0	80·7	81·9	82·2	82·9	82·5	83·0	83·0	84·1	83·9	83·0	83·3	80·6	79·4	78·5	77·7	78·2	77·6	80·7
10	77·4	77·2	76·6	77·0	76·5	77·0	77·4	80·0	81·6	83·0	83·3	83·3	83·8	84·6	84·7	84·4	83·9	83·6	81·5	80·5	78·1	78·4	78·6	78·4	80·4
11	77·4	76·7	76·2	75·8	78·2	79·7	80·5	80·8	83·8	84·2	85·9	86·0	86·1	83·2	84·7	83·3	83·5	83·0	81·4	79·8	79·2	78·4	77·8	77·6	81·0
12	78·1	77·7	77·6	77·5	77·1	76·8	78·1	80·2	82·0	82·9	83·3	83·5	83·8	83·8	83·4	83·4	82·6	82·4	80·2	78·4	78·0	77·7	77·5	78·3	**80·2**
13	77·4	77·6	78·0	78·4	77·6	77·0	78·4	80·2	81·7	82·7	83·5	83·7	84·4	84·4	84·5	84·2	83·4	82·8	82·4	82·3	82·3	82·0	81·6	81·8	81·3
14	82·0	82·1	82·0	82·1	82·1	82·0	82·4	83·1	84·5	85·4	88·0	89·9	90·0	91·2	91·4	91·5	91·4	90·9	90·2	89·8	88·6	89·0	88·2	87·8	86·8
15	88·2	87·8	87·3	87·6	87·4	87·3	88·0	89·2	88·9	89·4	88·6	89·0	87·7	87·3	86·6	86·4	86·1	85·6	85·5	85·5	85·5	85·5	85·4	85·5	87·2
16	85·5	85·5	85·5	85·5	85·2	85·3	85·5	86·0	86·3	87·7	87·4	86·6	87·2	87·1	86·6	86·7	86·4	86·6	86·5	86·4	85·9	86·1	85·7	85·5	86·2
17	85·6	85·5	85·4	85·4	85·7	85·9	85·7	87·0	88·7	89·4	89·8	89·9	90·0	90·1	90·1	90·1	89·8	86·5	86·4	85·9	86·3	85·9	85·2	84·8	**87·3**
18	83·7	83·9	82·7	82·4	81·8	82·0	82·4	84·9	86·7	87·0	87·1	88·0	89·8	90·2	89·2	87·6	87·4	86·3	86·0	85·5	85·3	85·4	85·8	85·9	85·7
19	85·5	85·2	84·8	84·8	85·0	84·5	84·5	84·9	85·9	86·7	87·1	87·2	87·7	88·6	87·9	87·9	87·0	85·8	84·9	83·9	82·2	82·9	82·7	82·5	85·5
20	82·4	82·8	83·0	83·1	82·9	82·8	83·3	84·4	84·8	85·5	85·8	84·4	84·4	86·0	85·4	85·1	84·7	83·7	83·0	82·0	81·4	80·5	79·6	79·6	83·4
21	79·4	79·1	79·3	79·1	78·9	79·0	79·6	81·4	82·4	83·2	83·5	84·0	83·9	84·3	83·8	83·2	82·4	81·5	81·1	79·2	78·2	78·5	78·9	79·2	81·0
22	78·4	78·6	79·4	80·1	81·1	81·4	82·0	83·4	84·9	86·2	86·9	87·6	88·4	89·1	89·1	88·5	86·9	85·9	85·6	85·5	85·6	84·9	84·8	84·4	84·4
23	84·2	83·9	83·9	83·8	83·8	83·8	84·0	84·6	84·5	85·1	85·6	85·4	86·2	86·4	85·9	85·4	85·1	84·7	84·3	83·9	83·6	83·4	83·3	83·0	84·5
24	83·0	82·7	82·6	82·5	82·5	82·5	82·5	83·3	83·7	84·2	84·6	84·8	85·4	86·4	86·5	86·2	85·6	84·9	84·6	84·4	84·3	83·9	83·2	83·3	84·1
25	82·7	83·5	83·9	83·9	84·2	84·2	84·4	84·8	85·1	86·0	86·9	87·3	87·4	88·0	88·3	87·9	86·9	85·4	84·4	84·4	84·4	84·0	84·0	83·8	85·2
26	83·7	83·6	83·6	83·8	84·0	83·9	84·0	84·1	84·4	84·8	84·7	84·6	84·8	84·8	84·8	84·8	84·8	84·6	84·3	84·4	84·3	84·2	84·5	84·4	84·3
27	84·2	83·5	83·7	83·5	83·6	83·7	84·4	85·2	85·7	86·4	86·7	86·9	87·1	87·2	87·1	86·5	86·4	86·0	85·8	85·6	85·5	85·4	85·5	85·4	85·4
28	85·4	85·5	85·4	84·9	85·2	85·3	85·3	85·6	85·3	85·1	84·2	85·7	86·5	87·4	86·9	87·0	86·7	86·1	85·4	85·3	85·0	85·0	85·0	84·7	85·6
29	84·4	84·4	84·5	84·4	84·4	84·4	84·4	84·6	84·9	85·8	86·4	86·5	86·9	86·3	85·7	85·6	85·5	85·1	85·0	84·6	84·4	84·4	84·3	84·4	85·1
30	84·4	84·4	84·4	84·3	84·2	84·2	84·3	84·5	84·9	84·7	84·8	85·5	85·5	85·3	85·3	85·3	85·2	85·0	85·0	84·9	84·6	84·5	84·7	84·7	84·8
Mean ...	82·2	82·1	82·1	**82·1**	82·1	82·2	82·7	83·6	84·3	85·0	85·4	85·7	85·9	**86·1**	86·0	85·7	85·3	84·6	83·9	83·3	82·9	82·8	82·6	82·5	83·8

93. Aberdeen : North Wall Screen on Tower : h_t = 12·5 metres. **October, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	84·8	85·0	84·6	84·4	84·2	84·2	84·4	84·9	85·0	85·0	85·4	84·5	84·8	85·3	85·9	85·8	85·4	85·4	85·5	86·5	86·5	87·4	87·5	87·8	85·4
2	87·9	88·2	88·5	88·4	88·3	87·5	86·4	85·6	85·0	85·2	86·2	86·9	84·8	85·3	81·9	84·3	81·4	82·0	81·4	80·8	80·5	81·2	81·2	81·2	84·7
3	81·4	81·6	82·0	82·1	81·7	81·9	81·5	83·2	84·4	85·5	86·4	86·7	86·7	87·2	87·0	86·9	86·0	83·8	82·7	82·3	82·0	82·9	83·3	83·2	83·8
4	83·3	84·0	84·4	84·5	84·6	84·6	85·2	85·6	87·4	88·6	89·2	90·0	91·0	91·6	90·2	89·9	88·2	87·3	86·5	85·6	85·7	86·2	86·5	86·5	86·9
5	88·2	89·7	89·7	89·4	89·2	89·2	89·2	89·7	90·0	91·7	92·4	89·7	90·0	89·9	90·0	89·4	88·6	86·8	85·3	85·0	85·8	85·0	84·7	84·3	**88·5**
6	85·2	85·5	85·6	86·0	85·7	86·3	86·2	86·0	86·2	86·8	86·7	86·5	86·8	86·8	86·9	86·5	86·2	86·3	86·4	86·1	86·1	85·8	85·7	85·5	86·1
7	84·6	84·2	83·5	83·2	82·7	81·7	81·6	82·4	83·1	84·3	84·6	84·9	86·0	85·5	85·3	84·4	83·5	82·6	81·6	80·8	80·6	80·4	81·5	81·3	83·2
8	81·0	81·6	82·1	81·3	81·3	81·4	82·5	83·5	85·1	85·4	86·4	87·1	88·1	88·3	87·7	87·4	86·9	86·3	86·0	86·6	86·0	85·9	86·5	86·5	84·9
9	86·5	86·6	86·4	86·4	86·1	86·0	85·7	86·3	86·8	86·2	85·8	87·0	87·4	87·4	87·6	87·4	86·8	86·2	85·5	84·4	82·9	82·7	83·0	82·3	85·9
10	81·3	81·4	80·7	80·8	80·5	79·5	80·0	81·8	83·4	84·8	85·7	86·9	87·0	87·3	87·2	87·0	86·0	84·8	84·6	84·4	84·3	83·2	83·4	84·1	83·7
11	83·5	84·3	84·0	84·3	83·7	84·1	84·4	84·6	84·8	85·2	85·6	85·7	86·6	86·6	86·4	86·3	85·3	84·5	84·3	83·5	83·1	81·8	81·5	80·8	84·4
12	80·7	81·0	81·3	81·4	81·4	81·4	81·5	83·2	83·4	84·2	85·0	85·9	85·6	85·4	85·5	85·5	85·5	85·1	85·0	84·5	84·4	83·8	83·1	82·6	83·6
13	81·7	81·6	80·7	79·4	80·0	80·0	78·5	80·7	82·4	84·2	84·3	84·3	85·0	84·5	84·5	84·3	83·4	83·0	82·6	82·6	82·4	82·3	82·0	81·4	82·3
14	80·8	80·7	80·4	80·0	80·5	80·5	80·7	81·2	82·2	83·0	84·3	84·7	85·2	85·8	86·2	85·6	85·3	84·8	85·2	85·0	84·9	85·0	85·0	85·0	83·3
15	84·7	84·5	84·4	84·0	83·8	84·3	83·6	83·8	85·0	85·4	86·2	86·5	86·4	86·3	85·9	84·8	84·4	83·6	82·9	83·9	82·2	81·4	81·3	80·9	84·3
16	81·3	80·0	80·0	79·5	79·5	79·8	79·0	78·6	80·2	82·5	84·0	84·1	84·5	84·5	84·5	84·1	83·3	82·1	81·7	80·2	79·3	78·8	78·4	78·3	81·2
17	78·0	78·5	78·5	78·5	78·7	79·2	79·5	80·4	80·7	82·3	82·5	84·5	85·0	85·2	85·0	85·2	84·4	84·3	83·8	83·7	83·4	82·6	82·6	82·5	82·0
18	82·2	81·9	81·5	81·3	81·2	80·8	81·0	81·4	81·7	82·4	82·6	83·0	82·8	82·9	82·8	82·5	81·8	81·1	80·7	80·5	81·5	82·2	82·2	82·6	81·9
19	82·4	82·4	82·5	82·5	82·3	82·0	82·0	81·5	82·6	84·5	85·7	86·5	86·5	86·4	85·9	85·6	85·6	85·1	85·0	84·6	84·4	84·6	83·4	82·4	84·0
20	79·6	78·9	77·8	77·2	76·8	76·9	76·6	78·4	80·0	79·9	79·0	78·5	80·2	79·9	78·7	78·4	78·5	78·0	78·0	78·0	77·8	77·1	76·4	76·8	78·3
21	76·7	76·3	75·0	75·4	75·3	75·4	75·8	76·1	76·6	77·4	76·9	77·0	77·4	77·6	77·7	77·8	77·5	77·4	77·2	77·4	77·3	76·6	77·0	76·6	76·7
22	76·5	76·3	76·5	76·9	77·0	77·0	78·2	78·8	78·8	79·3	80·3	81·0	81·8	82·0	81·9	81·4	81·5	81·3	81·0	81·3	80·7	81·3	81·3	80·4	79·6
23	79·9	79·7	79·1	78·4	77·9	77·4	77·9	78·6	79·1	79·5	79·5	80·4	81·0	80·8	81·0	80·3	78·5	77·2	77·0	77·2	76·7	76·6	76·5	76·4	78·7
24	76·4	76·0	77·4	76·2	76·8	76·0	76·1	75·8	76·0	77·4	76·1	77·5	76·1	78·1	74·9	75·5	74·9	74·4	74·5	73·8	73·9	74·0	73·8	74·1	75·7
25	74·4	73·5	73·4	73·3	72·9	73·1	73·1	73·4	73·6	74·7	75·0	75·6	76·8	76·7	76·6	76·0	75·0	74·4	74·0	73·4	72·4	72·2	71·8	71·9	**74·1**
26	72·4	73·7	74·4	74·4	74·5	74·6	74·5	75·0	76·0	78·4	79·6	80·4	81·1	81·7	81·7	81·3	80·3	79·5	79·1	79·0	78·6	78·6	78·5	78·4	77·6
27	78·3	78·4	79·1	79·5	79·5	79·5	79·7	80·1	80·4	81·3	81·9	82·5	83·4	83·8	83·3	83·0	82·6	82·5	82·2	81·6	81·4	80·8	81·1	80·6	81·1
28	80·7	80·5	80·1	79·4	78·2	78·9	78·6	78·5	78·9	79·5	79·7	80·4	79·4	80·5	81·3	79·6	78·4	78·4	77·6	77·5	76·3	77·1	76·5	76·0	78·9
29	76·0	75·8	76·0	75·8	76·1	75·2	75·2	75·4	75·6	77·0	77·9	78·4	78·0	77·4	77·1	76·6	76·6	76·3	76·2	75·9	75·6	75·2	75·4	74·7	76·3
30	74·8	75·0	74·1	73·6	73·4	73·4	73·5	74·5	74·5	75·4	77·0	77·4	77·5	77·3	77·5	76·4	75·5	75·2	75·3	75·3	75·2	75·2	74·7	75·4	75·3
31	75·5	75·7	75·8	75·8	76·0	75·9	75·9	76·2	76·6	77·4	78·4	79·4	80·4	80·4	81·4	81·3	81·4	81·1	81·5	81·5	81·3	81·4	81·9	82·0	78·8
Mean ...	80·7	80·7	80·6	80·4	80·3	**80·3**	80·3	80·8	81·5	82·4	82·9	83·4	83·7	**83·8**	83·5	83·2	82·5	82·0	81·6	81·4	81·0	80·9	80·9	80·7	81·7
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

94. Aberdeen : North Wall Screen on Tower : h_t (height of thermometer bulb above ground) = 12·5 metres. **November, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	82·4	82·0	82·0	82·0	81·4	82·4	82·5	82·3	82·9	83·4	84·3	84·4	84·7	85·2	84·4	84·3	83·9	83·4	83·7	83·5	83·8	83·6	83·6	83·5	83·3
2	83·4	83·4	83·5	83·5	84·0	84·2	83·5	83·6	83·7	84·6	84·1	84·4	84·5	84·4	84·6	84·4	84·3	84·0	84·3	84·5	84·4	84·0	84·0	84·4	84·1
3	84·6	85·0	85·0	84·6	84·4	84·7	84·6	85·0	84·8	85·0	85·4	86·4	86·7	86·9	86·6	84·9	84·5	84·6	84·5	84·1	84·4	83·8	84·8	84·1	**85·0**
4	84·0	84·2	84·1	84·0	83·9	83·4	82·5	82·1	82·5	83·0	84·0	84·7	84·5	84·1	83·7	83·0	82·7	82·5	83·2	82·4	81·8	81·6	81·4	81·2	83·2
5	80·6	79·6	79·4	78·7	78·4	78·2	77·9	78·4	79·0	80·7	81·9	82·4	83·6	82·9	82·5	82·4	81·6	81·1	80·6	80·4	80·4	80·1	79·7	79·7	80·5
6	81·8	82·3	82·6	82·6	82·8	82·8	82·8	82·7	82·9	82·7	82·8	83·0	83·0	83·1	83·2	83·0	83·0	83·0	82·6	82·9	83·0	82·8	83·0	82·9	82·7
7	82·7	82·5	82·4	82·0	81·5	81·3	81·4	81·6	81·9	82·4	82·4	82·7	83·0	82·9	83·0	82·6	82·5	82·4	82·3	82·9	82·8	82·8	82·9	83·0	82·4
8	82·8	81·5	80·0	79·2	79·3	79·4	79·4	81·9	82·4	82·7	83·1	83·4	83·4	83·1	83·0	82·8	82·9	83·0	82·8	82·6	82·6	82·5	82·4	82·3	82·0
9	82·1	82·2	82·2	82·3	82·4	82·4	82·4	82·5	81·9	82·4	82·5	82·7	82·8	82·8	83·1	83·0	82·9	83·0	83·0	82·6	82·6	83·0	81·6	81·6	82·5
10	81·4	81·4	81·2	80·9	80·5	80·2	80·0	79·6	80·0	82·0	82·2	82·5	82·5	82·6	82·7	82·6	82·7	82·9	83·0	83·1	82·9	83·1	83·0	83·0	81·9
11	82·8	82·7	82·6	82·3	82·5	82·5	82·5	82·5	82·5	82·7	83·0	83·1	83·1	82·0	81·4	81·4	81·4	81·4	81·5	81·4	81·0	80·6	80·4	80·4	82·0
12	80·4	80·1	80·3	79·3	78·9	78·9	78·8	80·2	80·5	81·6	82·3	83·2	83·2	83·1	83·1	82·5	82·0	81·3	80·9	80·5	81·2	80·5	79·9	79·6	80·9
13	79·0	78·9	78·4	78·0	78·2	78·5	79·3	79·2	79·7	80·4	81·4	82·6	81·9	81·6	81·6	80·6	80·4	81·2	81·4	81·5	81·5	81·5	81·5	81·5	80·4
14	81·6	81·5	81·6	81·5	81·6	81·5	81·2	81·4	81·5	81·4	81·4	81·4	81·5	81·4	81·4	81·5	81·7	82·0	82·1	81·9	81·6	81·3	80·7	80·7	81·5
15	80·2	80·3	79·9	79·7	79·6	79·5	79·3	79·4	79·7	79·8	80·0	80·2	80·4	80·6	80·6	80·2	80·0	79·9	79·6	79·4	79·6	79·4	79·4	79·2	79·9
16	79·3	79·3	79·3	78·6	78·4	78·5	77·8	76·5	77·7	79·0	79·6	80·4	80·4	80·4	80·2	79·5	79·4	79·1	79·3	80·9	81·0	81·1	81·0	81·3	79·5
17	81·3	81·2	80·3	79·6	78·7	78·7	79·4	80·5	81·3	81·3	81·4	81·5	81·4	81·3	81·1	81·0	81·1	81·0	81·0	81·1	81·2	81·3	81·3	81·2	80·8
18	81·1	81·0	81·0	80·9	81·0	81·1	81·1	80·9	80·4	80·0	79·6	79·7	79·9	79·6	79·6	79·5	79·4	79·4	79·5	79·4	79·4	79·4	79·5	79·3	80·1
19	79·1	79·0	79·0	78·8	78·6	78·5	78·2	77·2	77·1	78·2	78·4	79·0	79·4	79·5	79·3	78·4	78·0	77·8	81·0	81·3	81·4	81·6	81·8	81·8	79·2
20	81·8	81·8	81·8	82·0	82·1	81·9	81·7	82·0	81·9	82·0	81·7	81·9	81·8	81·9	82·0	81·5	81·5	81·8	82·0	81·6	81·4	81·1	81·0	81·1	81·7
21	80·8	80·4	79·8	78·6	78·0	77·6	77·8	77·9	77·9	77·9	78·4	78·9	79·6	79·7	79·7	78·9	78·4	78·4	78·0	77·4	77·1	77·2	77·2	76·9	78·5
22	76·6	76·8	76·8	76·3	76·6	76·4	76·4	76·4	76·1	77·0	78·2	79·4	79·6	78·9	78·6	78·2	78·3	79·5	80·1	80·6	80·6	81·0	81·0	81·1	78·3
23	81·3	81·3	81·4	81·8	81·8	81·8	81·4	81·1	81·1	81·0	81·1	81·2	81·3	81·4	81·4	81·5	81·5	81·5	81·6	81·6	81·6	81·6	81·7	81·7	81·4
24	81·9	82·0	81·9	80·4	79·9	79·5	79·5	79·2	78·7	78·7	79·6	79·5	79·6	80·2	80·0	79·3	79·3	80·0	80·3	80·6	81·0	81·4	81·4	81·4	80·2
25	81·4	81·5	81·9	82·3	81·3	81·0	81·1	81·0	81·0	81·3	81·6	82·3	82·3	82·4	82·1	81·6	81·5	82·0	82·0	82·5	82·5	82·3	82·7	82·9	81·8
26	82·8	82·7	82·5	82·4	82·2	82·1	82·2	82·2	82·2	82·3	82·2	82·3	82·4	82·5	82·5	82·6	82·6	82·9	83·0	83·2	83·2	83·1	83·2	83·2	82·6
27	82·2	81·4	81·4	80·8	80·6	79·4	79·7	79·4	80·0	80·0	80·6	81·2	81·5	81·5	81·3	81·3	81·3	81·3	81·4	81·4	81·4	81·5	81·7	81·9	81·0
28	81·7	81·8	81·7	81·6	81·8	81·6	81·5	81·5	81·8	82·1	82·2	82·0	82·1	82·1	82·1	82·1	82·1	82·1	82·2	82·3	82·1	82·1	82·0	82·0	81·9
29	81·8	81·9	81·9	81·9	81·9	82·0	81·6	81·5	81·5	81·5	81·6	81·5	81·7	81·4	81·4	80·6	80·5	80·5	80·5	80·5	80·4	80·1	78·7	78·4	81·1
30	76·5	76·4	76·6	76·8	76·4	76·9	76·7	77·4	76·4	76·4	78·3	79·2	80·1	79·6	78·8	77·5	76·7	75·3	75·4	74·8	74·3	74·0	73·5	73·5	**76·7**
Mean ...	81·3	81·2	81·1	80·8	80·6	80·6	**80·5**	80·6	80·7	81·1	81·5	81·9	**82·1**	82·0	81·8	81·4	81·3	81·3	81·4	81·4	81·4	81·3	81·2	81·2	81·2

95. Aberdeen : North Wall Screen on Tower : h_t = 12·5 metres. **December, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	73·8	73·5	74·0	74·6	74·8	76·3	77·3	77·6	78·0	77·6	77·7	78·5	78·7	79·3	79·3	79·5	79·4	79·2	78·9	78·9	78·8	78·5	78·3	78·4	77·4
2	78·4	79·4	79·5	80·0	80·5	81·4	81·5	81·2	81·5	81·1	81·1	81·1	81·0	81·3	81·0	81·4	81·5	81·5	81·5	81·0	81·2	81·0	81·3	81·5	80·9
3	81·6	81·6	81·6	81·6	81·5	81·5	81·4	81·1	81·1	81·4	80·9	81·5	81·6	81·1	81·1	81·2	82·5	83·1	83·1	83·1	83·2	82·6	83·1	82·5	81·9
4	82·4	82·3	82·4	81·6	81·4	81·8	81·1	80·4	80·7	81·5	81·4	81·4	81·4	81·8	81·6	81·4	81·4	80·7	80·3	79·6	79·3	78·6	78·9	79·2	81·0
5	79·4	77·8	78·7	79·1	79·4	77·9	77·6	77·6	76·9	77·4	78·3	79·2	79·5	78·9	79·7	80·5	81·0	80·9	80·5	80·3	79·8	79·3	78·5	77·5	79·0
6	77·0	76·8	77·4	77·1	76·9	77·2	77·1	77·1	76·8	77·0	77·6	78·4	78·5	78·4	78·1	77·3	76·6	77·1	77·0	76·4	77·0	77·1	76·9	77·2	77·3
7	77·0	77·0	77·1	76·5	77·1	77·4	78·2	77·8	77·6	78·1	78·2	78·2	79·4	79·2	78·5	78·5	78·6	78·8	79·1	79·0	79·4	79·5	80·4	80·3	78·3
8	80·2	80·4	79·6	79·6	77·9	77·9	78·2	78·2	77·8	78·0	78·5	79·8	80·3	80·3	79·8	78·7	78·5	78·4	77·8	77·7	77·5	77·1	77·6	77·2	78·7
9	77·3	78·0	78·2	78·1	77·9	77·6	78·3	78·2	78·4	79·1	80·5	81·4	81·3	81·5	80·7	80·8	80·8	81·0	80·9	80·5	80·4	80·4	80·1	80·4	79·6
10	80·4	80·4	80·4	80·4	83·7	84·5	84·4	84·5	84·7	84·6	85·0	85·1	85·0	84·4	84·1	84·0	84·2	84·3	83·8	83·1	81·5	80·0	80·0	80·1	83·0
11	78·0	77·9	77·5	76·6	76·5	77·3	77·3	79·0	79·6	80·5	81·4	81·4	81·5	82·3	83·0	80·6	81·2	79·6	78·0	78·0	76·4	78·5	78·6	78·7	79·2
12	78·6	78·8	77·9	84·3	83·6	82·0	84·4	84·5	84·2	84·1	84·5	82·1	82·1	82·3	84·4	84·3	82·8	82·7	82·2	82·9	82·5	82·5	82·1	81·6	82·5
13	80·5	81·9	82·0	81·1	79·6	78·6	78·9	78·6	77·4	77·9	78·1	79·6	80·7	81·0	80·3	79·3	78·5	77·8	77·4	77·3	77·6	77·8	78·6	78·3	79·2
14	78·4	79·4	80·3	81·1	80·8	81·4	81·0	81·4	81·3	83·0	83·9	84·1	84·6	84·5	84·4	85·0	84·9	83·9	84·8	84·6	84·5	81·7	80·6	80·2	82·5
15	79·6	79·2	78·4	77·4	77·3	77·2	77·2	77·0	76·8	76·7	77·5	78·1	78·5	78·2	77·9	77·4	77·2	76·9	76·4	76·2	76·5	76·8	76·5	76·0	77·5
16	76·0	76·0	75·9	76·2	76·1	76·0	76·0	76·0	76·5	76·5	76·9	76·8	77·2	76·9	77·0	76·6	76·4	75·8	74·5	73·5	72·6	72·4	72·5	72·2	75·6
17	71·7	72·3	72·5	71·9	73·1	73·5	74·2	75·2	75·2	75·9	76·5	76·7	77·2	76·9	76·7	76·5	77·2	77·3	77·4	77·3	76·5	76·4	76·5	76·5	75·4
18	76·4	76·2	75·5	75·1	74·2	74·4	75·3	75·6	76·2	77·4	78·4	78·5	78·5	79·6	79·0	78·9	78·6	78·6	78·1	79·0	80·1	79·5	79·4	79·4	77·5
19	79·5	79·6	79·3	79·6	79·3	79·1	79·2	78·6	78·6	79·0	79·2	79·5	79·6	79·5	79·5	78·3	77·4	75·4	75·2	74·4	74·4	74·2	74·1	75·0	77·9
20	74·7	75·0	74·5	75·6	75·2	75·7	75·6	75·4	76·1	75·6	76·6	77·5	77·9	78·2	78·2	78·4	78·4	78·2	78·1	77·8	77·7	77·8	77·7	77·7	76·8
21	77·8	78·4	78·6	79·3	79·4	79·3	79·2	79·1	79·0	79·2	79·3	79·5	79·2	78·9	78·2	77·4	78·1	77·6	77·4	78·0	77·3	77·1	76·6	76·0	78·4
22	76·6	77·0	76·8	76·7	76·8	77·2	76·9	76·6	76·4	76·0	75·8	76·4	77·3	77·5	77·1	76·3	75·9	76·1	76·5	76·5	76·6	76·9	77·2	77·7	76·7
23	78·2	78·7	79·0	79·4	80·6	80·4	80·6	80·6	80·6	80·8	80·7	80·9	81·0	80·7	80·6	80·5	80·8	80·9	81·0	81·1	81·1	81·1	81·5	81·7	80·4
24	82·0	82·4	82·8	83·9	84·1	84·5	84·9	85·5	86·3	85·6	85·8	88·3	88·4	88·1	87·7	86·6	84·8	83·6	82·0	81·5	80·8	80·2	79·6	78·9	84·2
25	78·2	76·8	77·6	78·4	78·1	78·0	78·9	79·2	80·2	80·6	80·8	81·5	81·8	81·4	81·1	80·5	80·7	80·5	80·4	80·2	79·5	79·5	79·1	79·1	79·7
26	79·5	79·9	80·6	79·0	77·5	77·7	77·2	78·0	78·6	80·0	80·0	80·8	83·4	85·0	85·4	84·5	84·3	83·8	83·8	85·4	85·4	85·5	85·0	85·1	81·8
27	85·4	85·5	85·2	85·2	85·1	85·1	85·1	84·6	85·0	84·0	84·5	84·5	84·0	84·1	84·1	83·5	83·6	83·6	85·1	85·2	84·5	84·0	82·7	79·6	**84·4**
28	78·6	77·7	77·8	75·9	75·4	75·5	74·9	74·4	74·4	74·4	75·1	75·0	75·3	73·0	73·1	72·6	72·4	72·3	72·4	72·3	70·8	71·2	72·4	73·3	74·3
29	72·8	72·5	73·3	73·8	74·5	75·0	75·3	75·5	74·7	74·5	74·6	74·4	75·2	75·5	74·3	74·5	74·8	74·8	74·7	75·2	75·4	74·4	74·2	74·3	74·5
30	74·2	73·9	74·4	74·4	75·0	74·6	74·2	74·5	74·7	74·4	74·0	73·4	73·6	73·6	74·0	73·1	73·4	72·7	72·0	71·8	71·9	71·8	71·8	71·7	73·5
31	71·7	71·8	72·4	72·4	72·5	72·2	72·5	72·5	72·1	73·5	73·0	73·8	73·4	73·4	73·2	72·5	72·5	73·0	72·4	72·0	72·4	73·5	72·5	73·4	**72·7**
Mean ...	**77·9**	78·0	78·1	78·3	78·3	78·3	78·5	78·6	78·6	78·9	79·2	79·6	**79·9**	79·9	79·8	79·4	79·3	79·0	78·8	78·7	78·5	78·3	78·2	78·1	78·8
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

TEMPERATURE: ANNUAL MEANS OF HOURLY VALUES.

From readings in degrees absolute at exact hours, Greenwich Mean Time.

96. Aberdeen: North Wall Screen on Tower: h_t = 12·5 metres. **1931.**

Hour. 1.	G.M.T 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
79·82	79·74	79·64	**79·53**	79·54	79·79	80·14	80·55	81·07	81·52	81·96	82·28	82·48	**82·55**	82·40	82·08	81·80	81·48	81·15	80·81	80·51	80·30	80·13	79·98	80·88

TEMPERATURE: MONTHLY MEANS AND DIURNAL INEQUALITIES.

The departures from the mean of the day are adjusted for non-cyclic change.

97. Aberdeen: North Wall Screen on Tower: h_t = 12·5 metres. **1931.**

Month	Mean	Hour. 1.	G.M.T 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	A°
Jan.	276·13	−0·42	−0·51	**−0·53**	−0·50	−0·48	−0·30	−0·25	−0·25	−0·18	+0·08	+0·43	+0·82	+1·11	**+1·19**	+1·00	+0·63	+0·27	−0·06	−0·13	−0·37	−0·35	−0·46	−0·36	−0·33
Feb.	275·99	−0·52	−0·59	−0·70	−0·84	**−0·89**	−0·68	−0·65	−0·69	−0·38	+0·14	+0·57	+1·18	+1·49	**+1·53**	+1·31	+1·03	+0·71	+0·22	−0·15	−0·30	−0·38	−0·43	−0·55	−0·47
Mar.	**275·38**	−0·87	−0·93	−1·03	−1·31	−1·56	**−1·66**	−1·59	−1·08	−0·35	+0·22	+1·01	+1·57	+1·86	**+1·93**	+1·78	+1·51	+1·09	+0·71	+0·31	+0·16	−0·15	−0·26	−0·52	−0·79
April	279·30	−1·56	−1·59	−1·73	−1·83	**−1·92**	−1·58	−0·93	−0·25	+0·54	+1·17	+1·65	+1·80	+1·84	**+1·91**	+1·90	+1·68	+1·21	+1·01	+0·50	−0·17	−0·47	−0·80	−1·09	−1·36
May	282·35	−1·70	−1·94	−2·16	**−2·33**	−2·10	−1·41	−0·67	−0·07	+0·71	+1·24	+1·50	+1·84	+1·90	**+1·99**	+1·81	+1·54	+1·41	+1·24	+0·77	+0·15	−0·39	−0·82	−1·11	−1·37
June	284·30	−1·65	−1·82	−1·95	**−2·12**	−1·70	−0·77	−0·02	+0·29	+0·93	+1·23	+1·46	+1·47	**+1·65**	**+1·65**	+1·57	+1·11	+1·13	+0·93	+0·52	+0·09	−0·47	−0·87	−1·21	−1·47
July	**286·61**	−1·14	−1·32	−1·50	**−1·60**	−1·51	−1·14	−0·48	−0·03	+0·62	+0·76	+1·27	+1·43	+1·44	**+1·62**	+1·33	+1·07	+0·85	+0·47	+0·42	+0·02	−0·37	−0·55	−0·74	−1·03
Aug.	284·82	−1·42	−1·54	−1·67	−1·74	**−1·82**	−1·49	−0·79	−0·08	+0·58	+0·91	+1·38	+1·53	+1·70	**+1·75**	+1·67	+1·49	+1·32	+1·10	+0·59	0·00	−0·36	−0·79	−1·08	−1·22
Sept.	283·78	−1·55	−1·64	−1·65	**−1·67**	−1·62	−1·51	−1·07	−0·16	+0·58	+1·19	+1·63	+1·91	+2·14	**+2·32**	+2·21	+1·85	+1·45	+0·81	+0·03	−0·55	−0·98	−1·09	−1·24	−1·33
Oct.	281·65	−1·02	−0·95	−1·05	−1·25	−1·35	**−1·42**	−1·38	−0·85	−0·19	+0·74	+1·26	+1·70	+2·00	**+2·18**	+1·89	+1·60	+0·91	+0·33	−0·01	−0·24	−0·61	−0·67	−0·72	−0·88
Nov.	281·24	−0·06	−0·16	−0·27	−0·55	−0·70	−0·75	**−0·83**	−0·72	−0·57	−0·14	+0·26	+0·66	**+0·83**	+0·75	+0·62	+0·23	+0·09	+0·11	+0·27	+0·28	+0·28	+0·19	+0·09	+0·06
Dec.	278·75	**−0·82**	−0·75	−0·65	−0·50	−0·50	−0·42	−0·24	−0·19	−0·12	+0·13	+0·47	+0·84	**+1·16**	+1·15	+1·03	+0·62	+0·55	+0·29	+0·06	−0·05	−0·28	−0·46	−0·55	−0·66
Year	280·88	−1·06	−1·15	−1·24	**−1·35**	−1·35	−1·09	−0·74	−0·34	+0·18	+0·64	+1·07	+1·40	+1·59	**+1·66**	+1·51	+1·20	+0·92	+0·60	+0·27	−0·08	−0·38	−0·58	−0·76	−0·90

ABSOLUTE EXTREMES OF TEMPERATURE FOR EACH DAY.

Maximum and Minimum for the interval 0h. to 24h., Greenwich Mean Time.

98. Aberdeen: North Wall Screen on Tower: h_t = 12·5 metres. **1931.**

Month	Jan.		Feb.		Mar.		April.		May.		June.	
Day.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	76·4	71·7	77·3	73·7	74·9	68·9	78·4	75·7	84·4	76·7	82·4	79·6
2	78·5	74·4	77·2	73·6	74·5	67·4	78·5	74·3	83·0	75·6	83·9	79·4
3	76·2	72·5	77·7	75·7	72·4	73·9	81·3	74·0	81·2	74·4	82·4	78·6
4	76·4	73·7	76·7	74·1	75·7	**62·0**	83·2	74·0	81·9	77·1	82·0	79·9
5	76·2	74·0	77·2	73·9	76·6	74·0	81·3	74·1	83·2	77·8	83·1	79·7
6	75·8	70·9	76·6	73·9	75·0	70·4	81·4	74·3	85·5	79·6	81·7	79·8
7	75·0	**70·0**	77·6	73·6	74·5	70·2	82·4	75·5	83·0	77·6	83·3	79·0
8	77·1	73·4	80·7	76·6	75·0	72·7	80·7	78·5	84·6	78·0	84·5	81·6
9	76·9	74·5	82·5	77·1	75·1	71·8	85·5	79·6	83·0	76·2	84·2	81·6
10	81·9	75·8	80·1	75·6	76·4	73·0	87·4	75·3	84·9	79·8	87·0	82·8
11	82·9	75·4	77·9	75·0	75·9	73·0	**88·4**	82·6	88·5	82·7	90·6	81·6
12	77·4	74·0	78·0	74·1	76·4	71·6	84·3	76·6	89·1	81·3	87·6	81·2
13	75·4	71·3	77·3	74·0	75·4	70·1	83·4	76·1	87·3	82·2	87·0	80·8
14	80·3	71·9	76·6	73·2	75·9	68·8	83·4	78·0	87·1	81·8	84·5	82·9
15	83·5	77·9	78·9	74·4	77·9	66·3	84·0	77·9	88·6	81·6	91·8	82·7
16	**83·9**	74·3	76·2	**71·0**	79·2	75·5	83·3	76·1	87·7	80·2	91·8	84·0
17	77·3	73·7	77·9	73·9	78·4	76·0	80·3	75·3	83·6	79·0	88·6	82·8
18	74·7	72·7	76·9	73·3	78·3	76·2	80·4	76·7	84·5	77·9	89·0	82·6
19	77·6	73·1	76·7	73·4	80·5	76·8	80·3	77·2	82·5	77·5	85·0	78·3
20	80·1	75·4	82·3	74·5	82·9	78·2	80·4	76·0	82·7	75·4	87·4	78·2
21	79·1	74·3	77·1	72·7	85·0	76·0	82·3	75·0	83·7	**73·8**	93·6	84·4
22	78·7	76·0	77·6	71·5	**85·7**	77·5	80·0	75·2	83·2	79·4	88·5	81·9
23	80·5	77·4	77·4	71·4	80·6	77·4	81·2	**72·8**	86·3	80·7	85·4	80·5
24	78·7	75·0	81·4	72·6	80·4	74·0	82·8	78·3	85·1	81·9	84·2	**77·9**
25	77·4	74·5	**86·6**	77·4	79·6	74·2	80·0	79·3	**89·3**	82·9	89·2	80·4
26	77·5	74·4	78·5	74·2	79·0	73·5	80·0	78·9	89·0	82·7	**94·4**	82·9
27	77·5	74·8	78·7	73·9	83·3	72·3	80·4	76·7	87·3	81·0	94·2	85·1
28	78·1	74·5	74·8	71·7	76·8	74·7	81·9	76·4	85·8	81·6	91·8	84·1
29	77·4	72·9	—	—	78·7	75·1	84·9	77·4	88·3	82·0	88·6	82·6
30	75·7	72·0	—	—	78·0	75·8	83·1	77·8	87·8	81·3	88·3	82·6
31	76·4	73·0	—	—	78·0	75·7	—	—	84·1	81·7	—	—
Mean	78·1	73·9	78·4	73·9	77·9	72·7	82·2	76·5	85·4	79·4	87·2	81·3

Month	July.		Aug.		Sept.		Oct.		Nov.		Dec.	
Day.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	89·9	84·3	90·4	83·8	85·4	79·6	87·9	84·0	85·3	81·3	79·6	73·0
2	91·0	84·3	88·6	85·9	84·1	82·3	88·6	80·3	84·8	83·3	81·6	78·2
3	90·1	81·6	86·6	84·2	85·5	81·5	87·4	80·0	**87·2**	83·7	83·3	80·9
4	91·4	85·8	86·2	83·0	86·0	81·5	92·0	83·1	84·9	81·2	82·5	78·5
5	90·4	84·2	85·3	82·5	85·4	80·2	**92·6**	84·2	83·7	77·1	81·1	76·8
6	86·6	83·7	**91·3**	82·3	85·1	79·3	87·0	84·3	83·4	79·7	78·5	76·4
7	88·6	85·7	88·5	82·3	85·2	80·2	86·3	80·4	83·2	80·8	80·4	76·3
8	89·8	85·6	86·1	81·5	86·8	79·7	88·3	80·5	83·5	79·0	80·4	76·7
9	90·5	83·6	85·5	80·7	84·4	76·8	87·6	81·9	83·2	81·4	81·7	77·2
10	87·1	82·5	87·0	81·5	85·1	76·2	87·4	79·4	83·2	79·4	85·2	79·4
11	86·7	83·3	88·6	81·3	86·7	**75·8**	87·0	80·8	83·2	79·8	83·2	75·6
12	88·0	84·7	89·1	85·4	84·2	76·5	86·1	80·6	83·5	78·3	84·8	77·6
13	90·8	85·3	86·5	84·1	85·0	76·9	85·4	78·3	82·6	77·5	82·2	76·8
14	90·0	83·5	86·1	82·4	**91·6**	81·8	86·4	79·8	82·2	80·6	85·4	78·1
15	88·1	85·0	86·4	81·3	89·4	85·4	86·5	80·6	80·7	79·2	80·3	76·0
16	88·2	85·5	87·2	85·0	87·8	85·0	84·6	77·7	81·3	75·8	77·2	71·8
17	88·8	84·9	88·4	85·9	90·4	84·8	85·5	77·6	81·5	78·4	77·6	71·3
18	88·2	85·0	88·1	84·3	90·4	81·5	83·0	80·3	81·2	79·3	80·2	73·4
19	88·5	82·4	87·4	85·0	88·6	82·0	86·6	81·5	82·0	76·3	80·0	73·7
20	87·5	**81·3**	85·5	84·6	86·1	79·4	82·4	76·3	82·3	81·0	78·5	74·3
21	89·4	82·0	86·0	80·7	84·3	78·1	78·2	74·7	81·1	76·5	79·6	76·0
22	**94·5**	85·2	85·5	79·2	89·5	78·4	82·1	75·8	81·1	75·3	77·7	75·7
23	92·0	86·0	85·3	79·0	86·6	83·0	81·1	76·4	82·0	81·0	81·7	77·7
24	89·4	85·5	85·9	**78·6**	86·5	82·4	78·1	73·7	82·0	78·5	**88·5**	78·9
25	87·3	84·4	86·8	81·3	88·4	82·6	77·0	**71·4**	82·9	80·6	81·9	76·7
26	87·0	85·2	88·4	81·8	85·2	83·5	82·0	71·9	83·3	82·0	85·7	77·0
27	90·6	85·0	90·4	79·6	87·3	83·4	84·0	78·1	83·2	79·3	85·7	79·6
28	88·1	85·8	88·1	82·0	87·8	84·1	81·4	76·0	82·4	81·4	79·6	**70·5**
29	88·6	84·5	87·7	80·6	87·0	84·1	78·5	74·6	82·1	78·2	76·5	72·5
30	90·7	85·4	85·4	79·2	85·9	84·0	78·6	73·0	80·4	**72·5**	75·3	71·4
31	88·5	85·7	85·7	79·4	—	—	82·4	75·4	—	—	74·6	71·5
Mean	89·2	84·4	87·2	82·2	86·7	81·0	84·6	78·5	82·8	79·3	81·0	75·8

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Percentages at exact hours, Greenwich Mean Time.

99. Aberdeen : North Wall Screen on Tower : h_t (height of thermometer bulbs above the ground) = 12·5 metres. **January, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure.*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	94	94	93	93	92	90	87	83	79	82	80	80	79	76	79	82	82	80	79	84	82	82	82	84	84·3	5·7
2	85	82	89	85	81	81	84	78	78	78	78	76	76	73	70	76	79	79	77	80	78	81	85	89	79·8	6·3
3	87	89	92	91	88	85	87	82	84	87	89	87	87	83	83	87	89	92	93	93	93	92	91	92	88·4	5·9
4	92	94	94	94	94	94	94	92	94	91	91	88	90	90	91	89	93	93	93	91	91	93	91	95	92·1	6·6
5	93	91	91	94	91	93	91	90	82	75	70	70	73	74	77	79	80	74	76	78	78	85	85	89	82·6	6·0
6	91	90	89	89	89	89	90	90	89	90	85	82	82	82	82	85	89	92	92	92	88	90	90	88	88·1	5·6
7	88	90	90	89	90	91	90	87	87	81	79	75	75	77	79	76	77	80	80	81	81	81	83	84	83·0	**5·0**
8	85	86	87	86	83	82	83	84	87	84	82	81	83	87	90	90	85	83	80	79	77	79	82	80	83·6	6·0
9	79	84	75	79	77	82	82	89	85	84	83	82	80	83	83	83	85	87	85	84	87	87	87	84	83·1	6·2
10	87	82	87	85	87	85	84	85	80	82	84	76	76	73	72	72	69	70	71	73	84	76	75	83	79·1	7·4
11	83	81	83	85	85	85	82	80	91	85	81	88	83	88	76	73	78	74	68	71	77	80	79	78	80·7	8·0
12	80	80	82	82	84	84	87	82	80	81	82	83	82	82	85	90	93	87	84	87	90	87	85	82	84·1	6·4
13	84	84	83	89	96	82	89	97	99	96	82	79	76	78	89	89	87	85	88	83	95	91	88	90	87·3	5·3
14	85	83	80	71	70	71	72	72	81	91	90	89	89	83	87	85	83	87	79	76	74	79	73	74	80·5	5·9
15	76	82	83	77	79	80	81	76	73	78	76	83	79	76	76	81	80	87	83	79	71	67	69	73	77·7	**8·1**
16	73	72	72	71	72	68	65	73	74	70	67	73	76	68	69	70	79	85	68	98	89	81	67	69	73·8	8·0
17	79	80	90	89	94	91	85	80	82	73	70	70	68	70	78	72	72	77	79	82	88	92	91	83	80·3	6·1
18	74	76	75	80	82	77	74	81	85	77	78	74	71	67	74	74	76	88	90	93	93	94	94	95	80·7	5·6
19	96	96	96	96	97	93	94	96	98	98	98	94	94	94	96	96	96	98	100	100	100	98	98	92	96·5	6·7
20	89	92	94	96	90	93	96	94	97	97	96	85	70	70	70	79	78	74	72	80	72	83	83	85	84·9	7·4
21	85	91	87	88	90	93	92	92	93	92	87	85	86	85	85	86	89	91	88	88	90	91	91	96	89·0	7·6
22	96	96	97	99	97	96	97	87	88	88	82	79	72	74	78	82	84	84	82	84	80	80	83	86	86·5	7·5
23	87	90	87	90	90	87	86	82	81	81	78	79	72	72	79	83	81	83	84	83	83	85	87	86	83·2	7·7
24	90	87	87	93	91	88	88	85	85	84	82	89	77	79	75	71	68	70	73	72	70	70	67	68	79·9	6·5
25	65	64	68	68	66	68	66	65	68	70	64	65	65	69	65	66	65	65	66	70	67	68	73	78	67·0	5·2
26	78	71	69	66	69	69	75	71	66	65	68	66	79	72	69	75	79	80	77	72	75	81	83	85	73·2	5·4
27	87	85	87	85	91	87	84	86	82	80	77	72	73	71	72	81	85	85	82	73	78	77	79	79	80·9	6·2
28	79	81	81	87	97	90	89	76	69	70	76	84	80	80	83	82	85	83	81	85	85	89	66	66	81·3	6·6
29	63	63	74	84	85	60	70	66	82	80	87	73	63	63	63	78	77	78	87	93	90	92	95	95	76·9	5·6
30	95	95	95	95	95	94	89	88	83	81	79	78	75	80	84	85	89	93	94	93	92	92	90	84	88·5	5·6
31	85	88	90	81	80	82	80	75	78	76	78	82	87	85	87	85	89	91	98	93	93	94	89	88	85·5	6·1
Mean	84·2	84·5	85·4	85·7	**86·2**	84·2	84·3	82·7	83·2	82·2	80·6	79·6	78·0	**77·5**	78·9	80·7	82·0	83·1	82·2	83·5	83·6	84·4	83·3	83·9	82·7	6·4†
Vapour Pressure* ...	mb. 6·2	mb. **6·2**	mb. 6·3	mb. 6·3	mb. 6·4	mb. 6·3	mb. 6·3	mb. 6·2	mb. 6·3	mb. 6·3	mb. 6·4	mb. 6·4	mb. 6·5	mb. 6·5	mb. **6·5**	mb. 6·5	mb. 6·4	mb. 6·3	mb. 6·2	mb. 6·2	mb. 6·3	mb. 6·3	mb. 6·2	mb. 6·3	mb. 6·3‡	

100. Aberdeen : North Wall Screen on Tower : h_t = 12·5 metres. **February, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure.*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	90	92	93	90	93	88	92	97	93	94	93	91	88	83	82	82	75	70	77	65	64	66	70	74	83·7	6·4
2	66	73	76	85	85	84	82	84	80	82	78	74	73	83	93	96	96	93	93	87	84	87	88	85	83·4	6·1
3	80	77	73	71	73	71	72	80	81	70	65	64	67	77	71	77	82	82	85	83	83	83	72	69	75·7	6·1
4	67	70	68	85	84	82	80	78	78	82	90	93	92	94	93	91	91	93	92	91	91	91	91	92	85·3	6·1
5	98	92	91	90	90	90	91	93	91	90	88	88	87	87	85	87	84	78	78	77	77	77	80	78	86·4	6·5
6	78	85	87	89	88	90	91	91	93	98	96	95	96	93	91	92	93	93	93	93	93	91	96	90	91·2	6·6
7	92	92	85	85	80	80	82	84	88	90	91	87	87	87	82	84	85	87	80	82	82	82	87	85	85·4	6·4
8	88	93	93	93	95	95	92	89	87	87	86	87	87	94	94	94	93	93	94	93	93	93	87	90	91·1	8·2
9	90	93	94	81	86	85	79	81	84	85	90	86	75	67	67	73	83	87	86	85	86	88	86	82	83·5	8·2
10	83	85	92	93	92	95	95	91	82	85	82	72	68	75	68	69	71	63	70	71	71	69	71	70	78·7	6·4
11	72	69	72	77	82	77	79	84	79	80	82	79	86	90	85	84	80	80	76	79	79	74	77	84	79·1	6·1
12	88	87	98	93	91	96	86	79	76	73	66	67	60	61	80	72	66	75	71	71	66	66	66	72	76·3	5·7
13	74	79	66	87	67	57	59	75	78	74	74	73	67	63	82	89	84	89	85	83	80	73	77	80	75·5	5·4
14	87	90	87	86	86	86	86	86	85	85	79	74	78	73	73	70	69	72	89	92	91	88	88	85	82·6	5·7
15	88	87	87	89	88	84	75	75	73	66	70	60	66	61	66	73	67	71	74	69	80	82	82	73	75·5	5·8
16	72	81	73	76	75	78	76	76	75	70	63	59	63	67	70	72	73	76	82	84	86	71	68	70	73·2	4·8
17	70	79	85	92	94	85	83	90	84	80	85	68	68	66	67	69	76	74	84	90	85	87	91	87	80·4	6·1
18	87	88	94	94	93	76	70	73	68	66	63	64	62	63	63	62	63	69	76	77	81	79	78	75	74·6	5·5
19	74	75	74	75	75	76	76	80	85	81	77	73	78	73	78	81	83	83	85	88	90	92	93	90	80·3	5·7
20	93	92	90	93	92	89	82	80	89	88	79	70	63	60	49	45	52	60	62	68	70	75	78	75	75·1	6·6
21	78	78	75	71	76	79	74	74	71	62	58	51	43	47	57	68	64	63	66	69	72	76	77	77	67·7	4·7
22	82	84	81	78	78	77	81	84	80	69	65	60	66	73	83	85	83	85	88	84	78	77	73	76	77·9	5·2
23	77	84	80	70	73	75	81	81	81	78	76	70	70	70	72	72	91	94	94	91	92	89	89	88	80·5	5·4
24	87	85	83	79	73	64	63	63	80	92	100	96	94	94	92	93	86	90	85	87	86	86	84	82	84·5	6·4
25	87	90	90	96	96	97	95	86	77	86	81	78	75	65	65	64	67	67	81	85	89	89	89	86	82·5	**8·8**
26	74	70	78	75	76	69	68	65	57	55	54	57	57	59	60	70	77	91	89	94	94	91	91	91	73·3	5·8
27	93	91	94	94	96	96	94	88	84	79	72	68	63	60	62	59	72	75	76	75	82	82	80	81	80·0	5·9
28	72	71	74	66	66	64	64	63	62	59	58	55	52	47	45	49	50	77	85	88	82	87	96	96	67·5	**4·2**
Mean	81·7	83·3	83·3	**84·0**	83·7	81·6	80·3	81·1	80·0	78·8	77·2	73·5	**72·5**	72·6	74·1	75·8	77·0	79·6	82·0	82·2	82·4	81·8	82·3	81·5	79·7	6·1†
Vapour Pressure* ...	mb. 6·0	mb. 6·1	mb. 6·0	mb. 6·0	mb. 6·0	mb. 5·9	mb. **5·8**	mb. 5·9	mb. 5·9	mb. 6·0	mb. 6·0	mb. 6·0	mb. 6·1	mb. 6·1	mb. 6·1	mb. **6·2**	mb. 6·1	mb. 6·1	mb. 6·1	mb. 6·1	mb. 6·1	mb. 6·0	mb. 6·0	mb. 5·9	mb. 6·0‡	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	

* Computed from the mean temperature and mean relative humidity. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

101. Aberdeen : North Wall Screen on Tower : h_t (height of thermometer bulbs above the ground) = 12·5 metres. **March, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure.*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	81	75	77	97	97	96	96	96	96	92	70	63	65	52	48	72	72	77	75	83	81	82	85	80	79·8	4·7
2	75	60	63	60	60	63	68	69	49	51	52	55	60	81	93	94	94	94	94	89	88	86	83	86	73·5	4·0
3	90	88	89	89	92	94	93	91	92	86	83	75	73	69	69	71	77	87	89	91	90	91	91	92	85·4	3·7
4	92	91	92	92	91	91	87	91	89	87	86	83	78	68	54	54	56	58	59	60	64	64	65	65	76·3	**3·5**
5	61	63	65	65	62	62	63	64	65	61	61	60	65	64	66	67	66	62	69	67	78	70	70	80	65·4	4·8
6	69	65	66	92	76	70	69	67	90	84	60	73	70	66	73	86	82	85	92	91	62	63	60	58	74·2	4·6
7	81	83	85	71	66	85	84	67	84	87	70	73	67	73	67	75	73	89	85	71	85	74	65	69	76·0	4·5
8	66	61	61	63	66	72	75	81	91	87	70	62	63	64	63	72	74	77	68	73	69	64	92	80	71·2	4·6
9	85	70	64	61	57	64	62	59	55	65	74	67	70	90	75	80	76	89	94	92	92	84	87	89	74·9	4·8
10	87	89	90	89	89	89	90	90	89	89	84	86	83	83	89	85	84	89	87	85	84	84	85	89	87·0	6·1
11	90	90	74	78	76	71	78	80	82	80	77	72	73	78	68	82	81	73	80	84	80	85	85	93	79·5	5·3
12	94	84	84	82	85	86	86	82	77	75	70	67	66	63	63	59	62	67	69	70	72	74	73	70	74·6	4·9
13	75	78	77	80	80	92	98	98	98	97	98	94	78	72	74	78	82	83	86	89	89	88	88	88	85·5	4·9
14	87	86	87	87	88	88	88	87	81	81	80	80	79	75	77	78	80	85	89	92	91	92	93	93	85·1	4·9
15	93	94	94	95	95	96	97	95	94	91	87	78	76	76	78	82	84	90	92	92	92	95	93	93	89·7	5·6
16	95	98	97	96	96	98	93	96	94	94	92	94	91	87	88	86	87	85	79	78	75	70	83	68	88·9	7·4
17	67	68	68	69	68	70	66	70	70	71	69	72	71	67	71	70	74	75	75	75	75	80	73	75	71·1	5·8
18	78	78	75	75	77	77	73	74	76	74	73	75	75	78	80	81	84	84	81	84	86	87	89	·89	79·0	6·6
19	89	88	88	88	90	92	93	93	90	92	91	88	88	88	87	86	84	90	94	91	94	96	94	94	90·2	8·0
20	96	94	94	93	91	91	94	91	91	86	83	80	82	83	81	85	83	85	86	87	86	91	91	92	88·2	8·8
21	94	94	94	96	95	92	93	92	94	93	86	79	80	76	80	82	86	89	88	93	94	93	91	93	89·4	8·8
22	93	94	93	93	96	96	96	87	82	74	69	65	69	68	69	73	82	71	84	70	74	78	83	86	81·2	**9·2**
23	93	96	93	94	96	96	94	91	93	87	87	80	77	77	73	74	68	63	76	63	64	62	62	65	80·6	7·6
24	66	65	67	73	77	81	75	73	78	71	63	70	71	71	67	65	72	79	78	76	79	73	85	88	73·0	6·2
25	91	89	92	91	94	93	93	92	82	72	76	71	72	72	77	74	77	78	82	84	85	86	85	85	83·1	6·8
26	85	85	85	87	87	85	87	84	82	84	80	79	78	79	81	80	84	88	92	95	94	94	93	94	85·7	6·6
27	89	94	95	95	92	89	82	75	74	71	73	62	61	78	87	86	81	87	91	91	93	94	96	90	84·5	7·3
28	90	87	78	79	78	73	73	73	65	62	59	52	51	54	56	54	54	55	57	59	62	66	66	68	65·9	4·9
29	65	63	65	63	63	63	62	63	65	62	64	62	63	65	67	68	71	75	77	77	78	80	80	82	68·2	5·5
30	80	82	77	76	77	81	77	78	76	73	76	71	79	79	84	65	78	79	74	72	72	70	72	67	75·9	6·2
31	70	67	65	67	67	64	66	69	62	65	68	63	66	63	64	67	66	68	69	72	70	69	71	71	67·0	5·3
Mean	**82·8**	81·3	80·5	81·8	81·4	82·6	82·3	81·2	80·8	78·8	75·2	72·6	**72·3**	72·9	73·2	75·2	76·6	79·2	81·0	80·5	80·6	80·2	81·6	81·7	79·0	5·9†
Vapour Pressure* ...	mb. 5·6	mb. 5·6	mb. 5·4	mb. 5·4	mb. **5·3**	mb. 5·3	mb. 5·3	mb. 5·4	mb. 5·7	mb. 5·8	mb. 5·9	mb. 5·9	mb. 6·0	mb. 6·1	mb. 6·0	mb. **6·1**	mb. 6·0	mb. 6·1	mb. 6·0	mb. 5·9	mb. 5·8	mb. 5·7	mb. 5·7	mb. 5·6	mb. 5·7‡	

102. Aberdeen : North Wall Screen on Tower : h_t = 12·5 metres. **April, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure.*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	70	72	69	71	69	69	65	67	64	63	63	62	62	64	62	65	66	67	65	66	66	66	66	66	66·1	**5·2**
2	64	66	68	70	73	69	72	73	73	71	69	79	82	90	90	91	93	91	91	96	96	96	98	98	81·0	6·3
3	98	98	98	96	98	96	93	93	86	80	71	61	60	58	60	59	56	59	70	78	76	84	82	87	79·3	6·5
4	78	71	73	70	63	70	70	60	57	54	57	59	50	50	49	53	87	76	71	73	71	73	75	89	66·6	6·0
5	91	80	69	68	61	62	67	70	64	62	58	59	50	57	42	54	60	74	68	66	82	77	78	75	66·7	5·7
6	74	79	77	80	85	80	77	73	74	71	65	61	67	66	60	64	64	70	77	73	74	77	77	82	72·6	6·3
7	88	90	87	84	82	82	80	77	71	71	72	63	73	78	79	83	87	86	87	85	87	90	91	91	81·6	7·5
8	93	94	94	94	94	94	94	94	93	93	91	90	90	87	88	90	90	90	93	91	91	93	93	90	91·9	8·8
9	91	91	91	93	90	88	79	78	70	68	63	70	61	64	61	64	66	67	67	70	71	70	74	77	74·6	8·6
10	81	77	84	85	85	86	87	84	79	68	71	69	57	63	57	65	73	71	64	68	74	80	77	82	74·4	8·6
11	82	82	86	87	87	87	91	93	88	88	79	82	73	68	69	73	68	65	74	77	73	76	81	84	79·7	**11·3**
12	89	85	77	80	83	80	76	77	72	63	56	50	48	67	71	60	69	73	68	75	80	74	73	73	71·9	7·4
13	75	75	71	73	71	72	69	65	60	59	53	54	49	51	56	56	59	61	69	76	74	75	77	79	65·7	6·7
14	72	72	72	72	74	77	76	72	73	66	67	72	79	80	82	80	79	78	79	90	85	83	86	87	77·0	8·1
15	82	90	92	90	94	97	94	97	94	88	83	82	87	71	70	76	80	89	79	76	73	73	72	71	83·7	8·6
16	73	70	70	71	71	70	67	63	60	65	67	61	59	64	67	71	73	63	78	81	78	78	78	78	69·7	7·0
17	76	80	76	73	79	78	74	79	77	72	72	62	75	92	89	92	90	87	97	93	92	90	89	88	82·0	6·8
18	90	84	88	88	84	82	86	76	75	77	74	76	76	76	74	72	75	66	76	84	87	94	90	92	80·8	7·4
19	90	89	85	85	85	87	86	79	76	69	74	74	78	77	79	71	72	73	80	85	84	86	86	86	80·8	7·3
20	78	79	79	82	85	84	78	85	76	75	74	70	84	74	79	78	80	79	81	85	87	87	87	90	80·6	7·1
21	91	91	93	89	91	90	81	74	79	77	73	78	82	73	74	87	91	91	85	87	87	87	92	93	84·8	7·6
22	94	92	88	82	76	79	80	79	74	72	74	71	71	69	73	72	70	74	70	87	80	85	87	84	78·6	6·6
23	90	89	89	90	89	87	82	79	80	86	72	72	84	87	90	94	83	85	87	91	91	91	94	96	86·3	7·5
24	94	94	94	96	94	94	93	93	93	89	87	87	88	90	88	88	88	91	90	89	90	88	88	93	90·9	9·2
25	94	91	93	91	93	93	93	94	94	93	96	93	94	94	94	93	94	96	94	94	96	94	96	94	93·8	9·2
26	93	91	93	93	94	94	94	94	94	94	93	93	94	91	93	96	97	99	97	97	97	97	97	99	94·6	9·0
27	97	96	96	97	96	96	96	91	90	93	86	87	89	85	82	83	78	80	79	83	83	80	82	87	88·3	8·3
28	81	81	80	83	85	82	79	79	79	74	72	77	79	83	88	82	81	78	82	86	91	89	94	94	82·3	7·7
29	94	90	92	92	90	88	86	81	67	64	57	58	57	56	58	58	59	58	67	79	83	82	83	82	74·5	8·2
30	85	85	84	83	83	83	82	74	62	61	71	65	79	68	74	79	81	85	83	86	83	87	82	67	78·3	8·2
Mean	84·9	84·1	83·6	83·6	83·5	83·2	81·6	79·8	76·5	74·2	72·0	**71·2**	72·6	73·1	73·3	75·0	77·0	77·4	78·9	82·2	82·7	83·4	84·2	**85·1**	79·3	7·6†
Vapour Pressure* ...	mb. 7·3	mb. 7·2	mb. 7·1	mb. 7·0	mb. **7·0**	mb. 7·1	mb. 7·3	mb. 7·5	mb. 7·6	mb. 7·7	mb. 7·7	mb. 7·7	mb. 7·8	mb. 8·0	mb. 8·0	mb. **8·0**	mb. 8·0	mb. 7·9	mb. 7·8	mb. 7·8	mb. 7·7	mb. 7·6	mb. 7·5	mb. 7·4	mb. 7·6‡	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	

* Computed from the mean temperature and mean relative humidity. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

103. Aberdeen : North Wall Screen on Tower : h_t (height of thermometer bulbs above the ground) = 12·5 metres. **May, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure.*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	70	70	73	77	71	73	76	77	74	57	56	51	46	59	68	57	63	75	72	76	75	81	81	80	68·8	**6·6**
2	82	82	82	82	80	87	71	66	62	65	64	61	75	67	71	74	69	70	79	80	76	84	82	84	74·7	7·1
3	91	88	89	85	91	84	85	77	75	82	80	82	82	86	89	89	86	82	86	93	91	94	91	91	86·1	8·0
4	94	96	95	94	97	95	99	96	98	99	99	94	89	89	87	84	84	83	84	94	94	90	88	89	92·2	9·2
5	77	79	74	78	78	75	71	73	74	76	74	76	76	74	73	73	82	81	85	87	86	87	90	86	78·6	8·2
6	83	86	88	94	93	91	90	86	78	73	72	73	73	77	77	82	81	80	83	83	86	88	89	90	83·1	9·6
7	93	93	92	92	94	97	94	94	92	86	84	83	88	92	94	86	87	89	88	89	92	91	92	92	90·5	9·6
8	93	93	94	93	93	89	88	78	76	75	87	83	79	82	83	78	79	78	75	76	78	84	86	89	83·8	9·3
9	90	90	93	92	93	89	87	79	71	69	70	70	66	69	72	74	81	86	83	86	88	88	88	89	81·8	8·2
10	90	91	94	94	94	96	98	98	99	98	98	96	94	94	91	88	89	89	88	90	92	92	91	93	93·1	10·8
11	91	91	93	91	91	93	93	91	88	67	57	55	55	48	45	50	51	56	56	58	63	62	65	66	70·4	9·9
12	70	76	73	70	71	72	76	75	74	73	67	64	60	60	60	57	59	65	68	71	67	74	76	77	68·7	9·6
13	83	84	84	82	80	83	81	82	82	78	83	77	75	73	74	77	79	78	90	94	94	91	89	88	82·3	10·9
14	87	87	88	89	89	84	87	83	82	80	76	78	85	78	81	85	71	68	68	75	78	79	83	86	81·2	10·9
15	87	86	83	86	82	76	74	71	68	61	58	55	56	53	52	57	56	54	57	62	71	72	76	84	68·3	9·6
16	81	79	80	86	86	80	83	73	71	60	63	63	62	66	64	84	80	60	82	85	85	85	86	86	76·2	10·0
17	89	94	91	90	90	91	87	83	78	75	86	83	82	83	78	75	73	80	89	89	91	90	89	91	85·2	9·6
18	91	92	92	89	88	86	86	70	67	72	69	68	74	58	79	77	79	82	72	75	65	71	69	73	77·2	8·4
19	70	70	73	76	77	86	88	78	68	74	73	68	74	64	60	60	62	52	57	62	61	71	74	75	69·7	7·3
20	77	74	77	75	78	72	63	69	61	60	62	52	55	56	59	67	63	60	62	69	73	81	83	91	68·0	6·7
21	89	85	89	90	85	77	72	71	63	63	55	58	51	60	57	66	66	67	67	71	73	69	72	71	70·7	7·2
22	72	74	73	77	82	80	85	89	87	89	91	89	89	88	87	84	86	89	91	91	91	93	93	92	85·5	9·4
23	93	93	96	94	94	96	94	91	89	84	79	79	78	79	80	80	86	88	93	93	93	95	95	96	89·0	10·7
24	98	98	99	99	99	99	96	93	95	94	92	92	87	92	96	94	95	95	95	87	82	79	85	85	93·0	11·6
25	87	83	84	84	87	81	80	81	80	77	70	69	65	64	65	72	69	75	71	72	78	77	81	77	76·4	11·0
26	82	83	84	83	86	81	76	77	74	74	73	73	71	72	74	69	72	63	69	72	79	84	85	87	76·6	11·3
27	88	89	89	91	91	86	85	87	88	86	89	83	93	85	85	86	78	81	86	89	94	94	95	92	87·8	**11·7**
28	92	92	91	88	84	80	78	76	77	78	80	82	75	75	77	79	81	85	88	89	91	95	96	95	84·3	10·9
29	96	95	96	98	96	92	83	77	74	74	69	70	83	82	81	74	71	74	74	78	83	83	87	89	82·6	11·4
30	89	88	89	89	89	89	88	89	95	92	94	93	93	91	91	89	82	76	88	91	93	95	96	96	90·1	11·5
31	98	100	100	100	100	97	97	98	96	95	92	90	91	96	94	99	100	100	100	100	100	100	100	100	97·5	11·7
Mean	86·2	86·5	87·0	87·4	**87·4**	85·7	84·2	81·5	79·2	77·0	76·2	**74·5**	74·9	74·6	75·6	76·3	76·1	76·2	78·9	81·5	82·7	84·5	85·6	86·5	81·1	9·6†
Vapour Pressure* ...	mb. 9·0	mb. 8·9	mb. 8·8	mb. **8·7**	mb. 8·9	mb. 9·1	mb. 9·4	mb. 9·5	mb. 9·8	mb. 9·8	mb. 9·9	mb. 9·9	mb. 10·0	mb. 10·0	mb. **10·0**	mb. 10·0	mb. 9·9	mb. 9·8	mb. 9·8	mb. 9·7	mb. 9·5	mb. 9·4	mb. 9·4	mb. 9·3	mb. 9·5‡	

104. Aberdeen : North Wall Screen on Tower : h_t = 12·5 metres. **June, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	100	100	100	100	100	99	98	98	96	96	98	93	94	93	93	91	92	92	92	93	94	93	91	84	95·3	10·5
2	83	83	84	83	83	78	74	76	73	70	69	61	63	71	74	69	74	79	76	77	79	82	83	80	76·1	8·2
3	83	83	81	78	76	72	65	70	61	67	68	66	64	65	66	65	64	66	66	71	71	73	78	85	70·9	7·6
4	88	88	94	98	99	100	100	100	100	100	100	94	87	88	81	79	76	78	77	72	73	73	70	71	87·2	9·2
5	72	70	68	68	67	67	66	66	65	66	64	63	63	64	68	66	63	66	66	68	67	69	68	68	66·6	**7·3**
6	70	69	71	73	71	73	72	76	75	75	78	78	76	76	76	78	79	81	86	86	77	84	88	93	77·0	8·1
7	73	86	91	96	96	91	85	83	74	76	80	86	77	76	76	75	80	84	86	87	88	88	89	89	83·9	9·3
8	89	89	91	92	92	92	91	94	88	88	85	85	83	84	84	84	84	88	92	95	97	99	97	97	89·8	10·8
9	99	100	100	99	100	100	100	100	100	100	96	97	94	95	99	99	96	98	99	98	99	99	98	98	98·4	11·9
10	99	99	99	99	99	98	95	95	90	90	87	91	86	87	85	87	94	95	97	97	99	99	99	100	94·4	12·8
11	100	100	100	99	100	99	99	94	80	76	92	72	72	68	69	73	70	70	72	76	89	89	87	87	85·0	13·2
12	86	87	92	91	89	84	79	72	69	67	65	61	63	73	61	58	62	70	72	86	91	89	92	96	77·1	10·7
13	99	96	95	96	98	91	80	80	78	81	86	88	89	91	87	86	81	89	90	93	92	93	92	94	89·4	12·1
14	93	94	94	95	95	96	95	95	95	95	95	94	93	94	93	94	93	94	94	92	98	96	95	98	94·5	12·2
15	100	99	98	96	92	87	76	73	68	57	46	43	44	44	45	52	55	63	68	74	79	80	82	85	71·4	11·4
16	86	89	90	92	94	93	91	91	89	90	84	84	79	76	54	80	61	56	57	62	72	74	80	82	79·5	12·6
17	84	87	89	89	85	76	81	73	72	74	69	82	71	74	89	80	84	64	75	81	85	72	80	76	79·7	11·3
18	78	81	82	83	79	76	68	67	67	62	61	63	77	66	78	81	85	87	82	84	89	91	86	84	77·2	10·9
19	86	86	84	84	84	86	89	79	78	79	89	94	82	87	71	72	69	69	73	72	82	87	90	94	81·7	9·7
20	94	90	84	81	76	78	73	71	64	62	60	63	63	65	73	76	77	70	61	66	73	76	83	86	73·7	9·3
21	87	89	92	89	86	83	78	66	59	58	63	65	61	61	55	55	56	64	63	62	68	70	77	77	70·4	13·0
22	81	79	72	92	95	70	61	57	52	45	49	43	58	43	51	54	59	64	67	69	76	76	83	81	65·6	9·8
23	76	81	86	89	81	76	70	67	71	69	75	71	69	69	79	75	78	78	80	86	81	87	87	84	77·6	9·6
24	85	91	91	92	91	83	80	67	72	64	72	71	68	73	74	65	69	71	77	79	75	76	79	78	76·9	8·2
25	83	91	82	83	79	77	76	70	66	68	67	66	65	71	68	70	68	70	72	70	77	82	79	75	74·0	10·7
26	71	80	82	85	84	79	79	75	73	73	67	70	67	67	68	71	78	77	81	81	83	84	83	85	76·6	**14·2**
27	88	88	85	82	82	74	74	78	61	62	51	75	83	82	85	82	73	80	78	79	72	78	83	81	77·4	13·7
28	70	79	78	75	75	75	74	61	59	56	67	61	61	65	72	75	75	46	45	51	53	58	64	70	65·7	10·7
29	72	66	68	68	67	66	62	65	64	71	56	56	56	52	56	62	79	87	90	82	87	88	91	89	70·4	9·7
30	87	88	86	88	87	83	84	76	66	71	67	63	66	71	77	73	62	66	77	79	75	81	83	84	76·8	11·0
Mean	85·4	86·9	87·0	**87·8**	86·7	83·4	80·5	77·8	74·2	73·6	73·5	73·3	**72·5**	73·0	73·6	74·5	74·5	76·0	77·0	78·9	81·4	82·9	84·6	85·0	79·3	10·7†
Vapour Pressure* ...	mb. 10·2	mb. 10·3	mb. 10·2	mb. **10·2**	mb. 10·4	mb. 10·6	mb. 10·7	mb. 10·6	mb. 10·6	mb. 10·7	mb. 10·8	mb. 10·8	mb. 10·8	mb. 10·9	mb. **10·9**	mb. 10·7	mb. 10·8	mb. 10·8	mb. 10·7	mb. 10·6	mb. 10·6	mb. 10·5	mb. 10·5	mb. 10·4	mb. 10·6‡	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	

* Computed from the mean temperature and mean relative humidity. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

105. Aberdeen : North Wall Screen on Tower : h_t (height of thermometer bulbs above the ground) = 12·5 metres. **July, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure.*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	84	83	87	87	87	87	88	85	83	73	70	68	67	67	73	77	78	89	89	90	89	89	88	89	81·9	12·6
2	85	85	92	93	95	94	93	91	89	87	82	74	71	57	63	69	80	83	86	91	92	78	85	92	83·6	13·4
3	88	87	88	87	82	82	79	79	73	73	78	80	82	82	80	83	82	86	88	90	92	90	90	93	83·9	13·1
4	97	96	94	95	97	94	92	84	73	78	72	71	68	68	56	67	73	73	67	66	75	76	77	78	78·9	13·8
5	76	81	83	83	87	83	78	75	74	77	69	69	64	66	69	70	69	76	80	85	88	91	96	100	78·3	12·9
6	100	99	99	100	100	99	99	100	98	98	99	99	99	97	98	97	98	97	97	97	96	97	96	96	98·2	14·0
7	95	96	96	96	95	93	91	90	88	90	89	95	95	95	94	90	90	94	94	97	97	97	98	98	93·8	14·8
8	97	98	98	97	98	97	97	95	92	90	87	91	89	88	88	87	86	83	81	86	87	85	83	84	90·5	15·0
9	82	80	80	83	83	83	81	83	85	87	81	79	77	81	75	78	69	78	78	80	81	80	85	85	80·6	13·1
10	87	84	82	87	94	84	87	85	83	82	83	80	80	69	66	63	64	70	75	80	82	78	74	76	79·1	10·7
11	76	72	77	80	80	76	77	77	78	77	76	75	79	85	94	96	93	96	94	93	95	97	98	100	84·5	11·8
12	100	100	100	100	100	100	100	100	100	100	99	97	95	92	93	97	96	97	97	99	100	100	100	100	98·4	14·5
13	100	100	100	99	98	96	80	70	67	77	82	79	64	71	81	80	84	77	79	83	78	82	83	88	83·5	13·9
14	91	91	90	88	93	84	83	74	70	79	81	76	80	81	87	90	97	100	100	100	100	100	100	100	88·7	13·9
15	100	98	97	94	93	91	89	90	89	87	80	86	81	84	88	93	95	87	91	91	90	94	95	96	90·9	13·7
16	96	93	95	93	91	93	89	88	81	86	87	88	90	88	88	88	86	88	93	94	94	95	96	98	90·7	14·0
17	94	94	91	89	89	95	86	88	87	80	77	79	74	75	78	78	80	89	91	92	92	95	96	98	87·0	13·4
18	97	98	97	97	96	95	95	95	94	91	91	88	86	82	68	67	82	85	86	87	87	87	85	87	88·7	13·3
19	90	93	89	91	91	89	83	78	84	85	82	71	71	65	56	94	89	71	77	89	89	88	90	88	83·0	11·7
20	87	84	88	83	79	84	83	75	69	68	76	63	66	62	53	54	54	58	56	63	73	78	79	78	71·6	**9·3**
21	80	80	80	83	79	76	70	63	60	55	55	51	58	58	70	78	77	82	64	76	81	89	90	91	72·5	10·9
22	91	91	88	89	89	88	83	78	73	69	60	73	75	80	75	80	80	80	83	87	90	90	89	82	82·0	**15·2**
23	88	89	90	80	88	80	75	72	70	63	56	58	58	57	56	62	63	63	61	65	68	71	76	77	70·4	12·8
24	78	86	89	91	92	93	94	87	83	80	79	77	74	75	82	87	87	90	93	95	97	98	98	99	87·2	14·1
25	99	99	98	99	98	98	98	96	91	95	98	97	97	97	98	98	99	99	100	97	96	98	98	98	97·6	14·6
26	97	97	97	96	96	96	96	97	97	95	95	95	96	96	94	98	96	98	97	97	97	96	95	95	96·3	14·7
27	95	95	95	96	97	96	94	89	82	77	74	64	62	66	83	80	81	84	83	88	90	89	91	94	85·2	13·7
28	96	94	91	89	90	90	85	82	81	86	87	92	91	92	91	85	85	90	88	80	82	81	78	75	87·1	13·7
29	74	72	72	75	77	79	71	80	80	76	87	81	81	83	87	95	93	95	96	95	96	95	94	95	84·1	13·1
30	94	97	95	94	95	96	95	91	77	79	78	81	85	75	97	97	97	97	97	98	97	97	97	96	91·7	15·0
31	97	97	95	97	96	97	97	94	93	82	76	80	82	84	90	89	93	90	90	88	92	92	95	95	90·9	14·5
Mean	90·7	90·6	90·7	90·7	**91·1**	89·9	87·4	84·9	82·1	81·4	80·2	79·3	78·6	**78·0**	79·7	82·8	83·7	85·3	85·5	87·7	89·1	89·5	90·2	91·0	85·8	13·4†
Vapour Pressure* ...	mb. 13·1	mb. 12·9	mb. 12·8	mb. **12·7**	mb. 12·9	mb. 13·0	mb. 13·2	mb. 13·2	mb. 13·3	mb. 13·3	mb. 13·6	mb. 13·5	mb. 13·4	mb. 13·5	mb. 13·6	mb. **13·8**	mb. 13·8	mb. 13·7	mb. 13·7	mb. 13·7	mb. 13·6	mb. 13·4	mb. 13·4	mb. 13·3	mb. 13·4‡	

106. Aberdeen : North Wall Screen on Tower : h_t = 12·5 metres. **August, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure.*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	99	97	96	96	95	95	94	91	88	87	87	88	80	85	89	85	84	83	87	92	93	94	96	96	90·7	**15·1**
2	96	96	97	98	99	99	99	96	89	84	82	83	88	85	87	87	84	84	88	90	90	89	90	90	90·5	15·0
3	91	93	94	94	94	97	96	95	95	93	92	91	89	89	93	93	93	94	95	96	97	98	97	97	93·9	13·4
4	98	98	99	98	99	97	99	99	97	94	94	94	92	94	94	93	95	98	100	99	100	99	99	100	97·0	13·1
5	100	99	99	100	99	100	100	96	94	93	92	91	91	93	96	97	97	97	98	97	97	98	98	98	96·7	12·6
6	98	98	98	96	99	95	95	96	96	91	92	90	86	77	72	74	78	80	84	86	92	86	83	80	88·8	13·6
7	78	78	82	84	83	78	78	75	72	66	63	59	60	68	64	63	68	69	72	86	80	88	86	87	74·3	11·0
8	84	83	82	86	89	91	97	92	78	71	67	72	71	72	62	57	61	66	70	74	75	81	78	77	76·7	9·9
9	74	88	90	89	90	87	86	76	78	72	56	52	54	56	49	58	59	64	70	74	78	83	87	87	73·0	**8·9**
10	88	91	91	91	91	91	89	78	72	64	60	63	63	55	53	58	67	68	83	85	91	89	87	87	77·3	10·1
11	88	91	87	88	88	87	77	75	72	73	64	65	71	75	93	89	90	80	76	85	83	86	90	87	81·7	12·1
12	89	87	88	86	85	87	81	75	77	71	78	75	77	87	96	98	97	97	98	99	99	98	96	97	88·0	13·7
13	97	100	100	100	100	100	100	100	99	100	100	99	97	93	81	85	81	76	76	80	81	76	74	73	90·8	12·9
14	74	70	74	73	76	76	77	76	73	74	77	76	77	75	74	74	74	73	80	80	79	85	88	88	76·5	10·5
15	87	86	87	87	88	89	85	72	71	69	71	73	74	74	76	76	76	77	81	80	83	85	87	88	80·1	10·9
16	90	93	93	94	95	95	94	94	94	91	92	92	93	93	95	98	96	97	97	96	96	95	94	96	94·1	14·2
17	97	96	97	94	94	94	94	93	93	95	90	79	93	93	94	93	92	92	93	91	89	85	78	85	91·6	14·4
18	87	89	89	93	95	93	90	92	87	87	90	91	92	88	93	97	97	98	97	97	96	95	95	95	92·4	13·8
19	95	97	97	97	98	97	95	96	94	95	97	93	91	93	95	95	96	97	98	97	96	96	95	95	95·6	14·1
20	97	97	98	99	99	99	97	98	99	99	99	100	100	100	100	100	98	98	98	98	98	97	97	97	98·4	14·0
21	98	98	99	98	97	95	95	95	94	98	95	94	78	85	91	86	82	81	84	86	86	83	86	88	90·7	12·1
22	93	89	89	91	90	93	90	78	72	78	66	65	70	75	64	62	70	71	75	86	78	93	93	90	80·0	9·3
23	96	94	91	94	93	91	87	86	88	85	72	65	63	65	62	68	66	72	76	83	86	89	93	93	81·5	9·3
24	91	90	91	93	91	94	89	84	81	88	74	72	68	70	67	73	76	76	82	87	91	91	92	93	83·5	10·2
25	93	95	93	96	96	91	88	84	78	71	63	79	78	75	73	75	87	89	90	92	95	95	96	95	86·1	11·2
26	95	95	95	94	91	91	90	80	72	69	62	76	69	71	69	71	76	69	76	90	89	86	86	89	81·4	11·8
27	90	93	92	87	88	91	88	74	68	59	63	64	66	64	66	66	68	68	72	77	78	81	85	86	76·5	11·5
28	90	93	93	97	97	97	94	90	86	82	78	75	74	73	74	78	81	83	89	94	98	99	98	98	87·7	12·7
29	96	98	94	94	96	86	78	77	71	77	80	84	81	87	86	88	90	91	96	97	95	98	100	100	89·1	12·4
30	100	100	100	100	100	100	100	99	96	91	87	86	87	83	85	86	88	84	84	91	92	91	94	93	92·5	11·0
31	91	92	91	93	93	94	91	90	87	86	82	82	79	78	78	76	71	75	85	88	91	94	93	94	86·4	9·9
Mean	91·6	92·4	92·5	92·9	**93·2**	92·6	90·7	87·2	84·2	82·4	79·5	79·6	**79·1**	79·7	79·7	80·6	81·9	82·2	85·5	88·8	89·4	90·4	90·7	90·9	86·6	12·1†
Vapour Pressure* ...	mb. 11·6	mb. 11·6	mb. 11·5	mb. 11·5	mb. **11·5**	mb. 11·7	mb. 12·0	mb. 12·0	mb. 12·2	mb. 12·1	mb. 12·1	mb. 12·2	mb. 12·3	mb. **12·4**	mb. 12·3	mb. 12·3	mb. 12·3	mb. 12·2	mb. 12·3	mb. 12·3	mb. 12·0	mb. 11·8	mb. 11·6	mb. 11·5	mb. 12·0‡	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	

* Computed from the mean temperature and mean relative humidity. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

107. Aberdeen: North Wall Screen on Tower : h_t (height of thermometer bulbs above the ground) = 12·5 metres.

September, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure.*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	94	94	98	98	96	98	95	94	98	85	80	75	79	78	83	73	83	84	89	89	85	84	84	87	87·8	11·2
2	94	95	95	97	95	90	90	91	86	84	86	84	78	79	79	74	71	84	82	83	86	82	83	82	85·5	10·7
3	79	80	83	84	80	79	78	77	75	72	65	68	70	69	66	66	72	73	80	81	84	84	83	87	76·4	9·6
4	87	83	89	92	91	88	86	82	76	84	70	66	72	67	65	67	69	72	75	79	76	76	76	74	77·9	9·8
5	78	78	74	76	77	79	82	74	76	74	73	73	80	74	71	67	75	73	79	84	88	86	88	83	77·4	9·6
6	86	82	78	86	86	85	83	81	74	71	70	65	62	70	74	73	71	70	82	89	91	90	91	88	79·0	8·9
7	93	90	93	92	89	91	86	87	84	88	79	75	71	79	70	68	73	76	86	84	84	86	86	88	83·3	9·7
8	86	88	79	77	76	78	81	75	82	72	76	62	62	61	82	91	87	92	91	95	93	87	90	88	81·3	9·9
9	87	89	84	86	87	88	82	82	77	78	65	62	66	67	58	55	68	65	79	84	85	89	87	90	77·5	8·1
10	90	89	93	90	93	90	90	81	78	68	60	63	65	59	66	60	57	62	74	74	85	85	85	85	76·9	**7·9**
11	84	90	90	94	84	74	72	75	65	68	62	59	60	87	81	83	74	75	81	87	88	89	92	94	79·3	8·5
12	90	94	92	94	92	93	90	86	72	63	57	67	65	58	65	63	66	66	77	86	89	89	89	89	78·9	8·0
13	96	90	90	91	92	92	86	79	74	68	61	56	55	60	63	63	70	74	74	75	75	80	84	83	76·4	8·4
14	81	79	86	91	91	93	95	91	87	89	78	72	73	66	68	70	75	78	84	85	92	87	91	94	82·9	13·1
15	91	94	93	93	94	93	93	91	89	86	89	89	91	93	97	96	96	97	98	99	99	99	98	98	93·9	**15·2**
16	98	94	94	89	91	88	87	85	87	81	85	87	90	90	95	95	96	95	95	93	95	90	89	93	91·0	13·8
17	93	94	95	95	95	93	92	87	80	76	79	77	76	71	71	71	74	93	94	95	93	95	97	96	86·7	14·2
18	98	97	98	99	99	99	99	95	87	86	85	86	81	84	87	88	88	95	95	96	96	97	95	88	92·6	13·6
19	93	94	98	94	88	92	86	83	72	68	61	59	53	55	61	59	61	68	75	76	87	79	79	79	76·0	11·0
20	78	75	74	78	75	74	73	69	71	69	68	81	81	65	70	69	74	74	80	86	87	91	93	93	76·7	9·7
21	94	94	94	94	93	93	91	82	75	68	64	69	65	59	60	64	70	76	78	88	90	93	91	90	80·7	8·7
22	91	91	91	90	82	81	78	81	81	78	77	75	70	68	72	74	82	87	89	90	91	93	90	89	83·0	11·2
23	92	95	93	95	97	95	94	91	91	87	86	88	81	80	86	90	89	88	88	93	93	91	92	94	90·3	12·2
24	94	96	96	96	95	96	96	92	93	85	88	86	82	77	79	80	83	87	92	93	93	94	93	94	90·0	11·9
25	96	94	92	92	90	90	89	87	89	87	75	72	70	71	70	73	72	83	86	88	83	87	89	90	84·0	11·9
26	93	92	91	89	83	83	84	85	83	80	85	85	83	83	83	84	84	87	91	89	89	90	88	88	86·4	11·5
27	88	82	80	80	77	77	75	68	69	62	61	61	62	61	62	64	64	65	65	70	73	74	75	78	70·7	10·2
28	78	79	80	86	84	87	89	89	95	95	93	87	83	72	76	77	75	82	83	83	85	88	83	86	83·8	12·2
29	89	88	87	89	91	96	96	91	89	80	75	79	73	81	86	87	89	79	72	76	79	79	82	81	84·0	11·9
30	82	82	83	82	81	81	80	78	79	81	83	77	78	80	86	88	90	93	95	95	95	93	93	91	85·0	11·8
Mean	89·1	88·7	88·8	**89·6**	88·1	87·9	86·6	83·6	81·1	77·8	74·5	73·5	72·6	**72·1**	74·4	74·4	76·6	79·8	83·6	86·2	87·6	87·6	87·9	88·0	82·5	10·8†
Vapour Pressure* ...	mb. 10·3	mb. 10·2	mb. **10·2**	mb. 10·3	mb. 10·2	mb. 10·2	mb. 10·4	mb. 10·7	mb. 10·9	mb. 10·9	mb. 10·7	mb. 10·7	mb. 10·8	mb. 10·9	mb. **11·2**	mb. 10·9	mb. 10·9	mb. 10·9	mb. 10·9	mb. 10·8	mb. 10·7	mb. 10·6	mb. 10·5	mb. 10·5	mb. 10·7‡	

108. Aberdeen: North Wall Screen on Tower : h_t = 12·5 metres.

October, 1931.

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure.*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	94	94	94	91	90	90	91	84	82	94	78	87	87	82	77	81	88	90	93	89	91	93	94	94	88·6	12·8
2	94	93	90	91	92	99	99	91	84	79	67	56	60	60	84	58	74	68	73	78	76	73	70	71	78·8	10·8
3	73	77	72	71	72	71	77	67	66	60	54	52	56	49	53	52	55	69	73	71	71	69	71	82	65·7	8·5
4	89	87	88	89	88	82	93	95	87	77	63	60	57	55	62	65	70	72	76	87	88	88	89	91	78·9	12·5
5	90	82	84	85	84	85	86	84	84	57	57	69	58	56	55	55	60	69	80	84	80	89	87	91	75·5	13·3
6	89	90	98	96	96	91	91	94	94	90	88	90	87	87	87	88	91	91	89	93	95	97	97	97	91·8	**13·8**
7	86	86	88	90	96	98	87	79	73	71	68	69	62	67	60	66	64	71	76	78	80	80	73	74	77·2	9·6
8	78	71	70	75	75	76	74	72	67	61	52	50	56	59	68	71	78	85	85	81	85	88	87	86	72·7	10·1
9	85	82	85	83	87	89	91	85	80	87	94	88	87	87	80	71	72	77	77	79	86	83	79	80	83·2	12·4
10	86	79	85	81	83	86	82	77	70	67	63	64	55	56	58	61	70	76	75	73	72	79	82	76	73·3	9·4
11	81	77	80	79	87	85	87	94	94	93	78	69	68	62	62	67	69	76	71	73	73	83	84	82	78·0	10·5
12	82	81	78	87	87	89	92	91	98	98	94	90	88	86	86	85	75	76	79	82	65	68	68	71	83·4	10·6
13	77	74	80	86	78	77	85	75	71	66	66	66	57	63	58	55	58	60	65	69	72	72	81	86	70·4	8·3
14	92	86	88	90	88	86	85	87	80	79	71	74	74	74	74	82	86	86	79	82	83	82	82	82	82·3	10·3
15	84	87	83	83	85	78	85	84	78	77	76	74	74	72	78	91	84	93	92	94	89	94	96	98	84·2	11·3
16	99	98	96	99	99	98	98	99	99	92	85	84	85	81	81	81	86	92	89	90	91	93	92	89	91·7	10·0
17	92	94	94	94	94	91	93	89	94	89	88	82	83	82	83	83	88	89	93	94	99	96	91	88	90·1	10·3
18	84	81	79	77	77	82	79	79	77	74	73	69	69	68	70	74	81	85	86	88	86	81	81	79	78·5	8·9
19	80	79	79	80	78	80	78	84	79	75	71	69	65	64	66	63	61	64	62	64	64	62	76	80	71·8	9·4
20	91	79	61	55	60	65	90	85	67	76	78	82	62	67	77	80	76	76	76	76	81	88	88	87	75·8	6·8
21	82	85	94	91	93	91	88	85	83	77	90	88	85	82	82	86	87	85	87	87	84	85	82	80	85·9	6·8
22	80	76	77	72	72	75	66	66	69	68	68	67	60	62	67	70	66	69	69	69	75	70	71	83	70·2	6·8
23	84	90	88	85	90	90	89	85	84	84	83	70	67	69	68	76	85	87	90	89	95	97	96	95	84·6	7·7
24	95	95	79	87	77	79	73	80	74	71	79	68	81	74	91	84	88	94	91	96	96	96	94	89	84·7	6·3
25	87	92	94	96	90	89	98	91	89	77	84	82	75	75	73	74	77	78	79	80	82	83	83	81	83·9	**5·5**
26	76	75	78	78	80	85	89	89	87	71	76	72	66	61	60	55	61	68	68	67	74	73	72	69	73·2	6·2
27	71	72	75	77	81	80	84	86	86	82	83	82	76	79	86	87	83	87	87	91	81	82	79	85	81·5	8·8
28	82	80	78	84	86	81	83	80	81	83	83	82	87	83	78	83	96	87	86	82	87	85	87	88	83·8	7·8
29	87	89	88	89	88	87	89	89	89	84	79	77	75	82	90	90	90	93	92	91	94	91	91	96	87·7	6·8
30	93	82	83	94	92	92	84	78	80	82	75	77	84	76	78	83	85	87	85	84	80	80	82	72	83·3	6·0
31	75	72	72	70	71	71	71	71	73	77	78	79	76	77	84	84	86	86	88	99	96	99	96	96	80·6	7·4
Mean	85·1	83·4	83·2	84·0	84·4	84·5	**85·7**	83·7	81·3	78·0	75·5	73·8	71·7	**70·9**	73·4	74·2	77·1	80·2	81·0	82·6	82·9	83·8	83·9	84·5	80·4	9·2†
Vapour Pressure* ...	mb. 8·9	mb. 8·8	mb. 8·7	mb. 8·7	mb. 8·6	mb. **8·6**	mb. 8·8	mb. 8·9	mb. 9·0	mb. 9·2	mb. 9·2	mb. 9·3	mb. 9·2	mb. 9·2	mb. **9·3**	mb. 9·3	mb. 9·2	mb. 9·2	mb. 9·1	mb. 9·1	mb. 8·9	mb. 9·0	mb. 8·9	mb. 8·9	mb. 9·0‡	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	

* Computed from the mean temperature and mean relative humidity. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

109. Aberdeen : North Wall Screen on Tower : h_t (height of thermometer bulbs above the ground) = 12·5 metres.

November, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour. Pressure.*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	93	96	99	97	100	93	95	93	94	92	84	83	79	78	79	82	84	82	79	81	79	80	83	87	87·4	10·9
2	87	88	88	90	84	81	90	90	90	75	81	79	82	82	80	84	84	87	85	87	88	90	90	91	85·5	11·3
3	89	89	89	82	96	94	98	94	95	93	89	89	86	75	78	96	97	89	87	86	82	83	81	89	88·6	**12·4**
4	92	93	94	95	95	98	99	95	94	89	87	74	75	72	67	69	74	75	60	60	67	64	63	62	80·3	10·0
5	68	71	71	73	74	74	79	77	84	82	81	86	79	82	84	87	92	92	91	94	89	90	94	96	82·2	8·5
6	93	92	92	94	94	92	89	91	88	91	88	87	84	88	86	79	80	87	92	91	88	91	89	89	89·1	10·7
7	92	91	89	93	93	94	94	98	98	96	98	94	89	94	92	98	92	96	98	98	99	100	100	100	95·0	11·2
8	100	98	93	90	90	93	96	93	93	96	95	94	94	96	95	96	96	96	98	98	95	91	88	88	94·5	10·9
9	87	87	89	89	88	89	96	95	98	95	92	91	92	91	86	86	91	92	91	94	92	92	93	89	91·0	10·8
10	89	87	89	93	93	89	88	90	91	87	88	87	86	87	86	87	88	88	89	89	94	91	94	92	89·2	10·2
11	94	92	95	89	95	95	96	96	94	96	94	92	92	96	94	93	96	94	93	91	90	90	88	88	93·1	10·7
12	85	88	85	90	91	90	87	79	85	83	79	76	78	78	78	84	84	86	85	86	79	86	84	83	83·8	8·9
13	82	83	85	86	83	85	86	84	86	80	78	74	78	83	78	88	86	81	81	83	78	83	79	79	82·1	8·5
14	78	81	81	84	83	86	91	89	91	92	93	96	96	94	94	93	89	84	83	86	87	91	94	94	88·4	9·8
15	96	93	96	98	98	98	96	93	94	94	93	91	93	90	91	91	93	93	96	96	94	94	94	93	94·1	9·4
16	94	93	94	94	94	97	94	99	96	93	94	90	91	91	94	96	96	96	94	83	82	81	81	77	91·7	8·9
17	81	77	88	86	94	91	87	79	77	79	74	76	76	77	74	71	68	68	63	63	62	62	62	63	75·2	7·2
18	66	69	67	69	65	64	68	73	85	87	93	87	88	96	91	88	91	91	93	96	94	93	96	93	82·8	8·2
19	94	94	94	97	99	99	98	100	97	94	91	88	88	86	86	86	90	94	86	86	87	87	88	84	91·6	8·7
20	88	88	88	88	88	88	91	89	86	87	86	84	83	81	83	87	87	84	87	79	89	76	82	82	85·5	9·6
21	88	88	91	89	90	89	87	84	84	86	85	86	77	77	76	77	80	82	76	77	77	77	77	80	82·5	7·5
22	83	80	82	85	83	85	85	83	88	85	77	75	77	79	83	86	86	87	80	74	79	78	78	78	81·5	7·3
23	78	78	81	84	78	81	87	91	92	93	93	93	96	94	94	93	96	96	96	98	98	98	98	98	90·6	10·0
24	95	95	96	94	93	87	86	82	83	86	84	87	84	77	79	81	84	81	83	86	94	94	96	98	87·9	8·9
25	98	98	91	78	88	89	88	89	88	82	84	80	79	82	84	86	86	93	92	89	99	99	99	96	89·0	10·1
26	95	96	95	92	91	91	89	88	88	91	91	89	91	92	92	95	96	94	93	93	94	94	96	96	92·5	11·1
27	96	96	96	98	99	98	96	90	91	85	85	77	78	78	81	77	81	81	87	86	86	86	86	83	87·6	9·4
28	86	84	86	86	87	86	86	84	80	75	80	80	79	80	81	81	84	88	89	89	89	89	91	89	84·5	9·6
29	88	89	89	88	88	83	87	87	87	88	87	87	86	88	89	94	93	91	91	90	91	91	96	92	89·1	9·6
30	97	95	97	93	92	90	88	85	87	85	80	76	74	77	82	84	83	87	85	91	89	90	98	94	87·4	**7·0**
Mean	88·4	88·3	89·0	88·8	89·5	89·0	**89·9**	88·7	89·5	87·9	86·8	84·9	**84·3**	84·7	84·6	86·5	87·6	87·8	86·8	86·7	87·0	87·0	87·9	87·4	87·5	9·2†
Vapour Pressure* ...	mb. 9·7	mb. 9·6	mb. 9·6	mb. 9·4	mb. 9·4	mb. 9·3	mb. 9·3	mb. **9·2**	mb. 9·4	mb. 9·5	mb. 9·6	mb. 9·7	mb. **9·7**	mb. 9·7	mb. 9·6	mb. 9·6	mb. 9·6	mb. 9·6	mb. 9·6	mb. 9·6	mb. 9·6	mb. 9·5	mb. 9·6	mb. 9·5	mb. 9·5‡	

110. Aberdeen : North Wall Screen on Tower : h_t = 12·5 metres.

December, 1931.

	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	92	96	90	93	90	87	85	86	87	92	90	86	90	87	88	91	93	93	94	93	93	91	89	86	90·3	7·6
2	87	91	99	98	98	89	87	85	81	83	83	82	83	86	86	86	86	86	86	90	89	90	89	88	87·8	9·4
3	87	87	87	88	88	87	88	92	93	86	82	77	76	79	82	88	75	71	69	66	66	71	66	66	80·3	9·2
4	62	60	50	59	60	63	66	73	72	71	71	73	62	64	68	62	61	73	74	77	75	79	77	72	67·5	7·3
5	72	81	74	68	57	65	74	76	80	84	78	76	75	84	84	79	68	61	59	61	64	72	80	84	72·9	7·0
6	88	92	84	90	92	87	88	88	85	82	78	68	64	59	61	71	73	71	67	68	72	72	75	71	77·2	6·4
7	73	72	71	80	77	71	68	71	73	74	74	77	72	75	79	88	80	79	86	90	90	70	76	82	76·8	6·8
8	84	85	90	70	86	79	72	71	79	78	79	68	65	66	68	73	72	72	78	76	78	74	78	76	75·8	6·9
9	76	78	77	78	79	82	82	80	83	81	74	71	73	76	85	83	82	81	81	91	94	94	94	96	81·7	8·0
10	99	100	100	100	95	85	82	81	78	75	72	69	69	75	74	75	73	77	73	78	86	90	88	88	82·7	10·2
11	92	90	90	95	93	89	89	88	88	88	84	87	84	79	75	88	79	87	84	80	97	93	85	88	87·2	8·3
12	85	91	94	77	81	92	78	81	81	81	85	99	99	98	78	71	78	75	72	68	71	72	73	77	81·8	9·7
13	80	73	74	77	86	88	86	88	90	90	89	84	82	81	88	90	86	89	90	90	90	90	86	87	85·4	8·1
14	91	90	88	85	90	88	92	88	88	82	75	76	70	70	70	67	67	75	72	76	77	88	85	74	80·4	9·5
15	74	75	78	84	85	87	87	90	92	88	82	83	71	72	70	68	68	70	75	78	70	60	69	74	77·1	6·5
16	74	74	76	71	73	74	76	74	69	75	75	75	71	75	75	77	71	77	82	82	92	90	84	85	76·7	5·7
17	88	82	82	83	87	84	83	77	80	78	75	78	79	80	80	82	74	80	84	85	87	88	90	88	82·2	6·0
18	88	92	91	93	96	94	94	91	90	84	85	80	82	78	81	84	89	91	94	93	81	87	88	90	88·1	7·4
19	93	94	96	96	91	93	91	96	97	91	90	93	96	98	96	97	96	100	96	96	94	92	94	91	94·4	8·2
20	91	91	93	91	89	93	93	89	93	94	90	89	94	92	92	94	96	94	94	96	97	97	97	98	93·1	7·5
21	98	97	96	87	84	81	81	83	84	72	72	67	69	74	78	84	82	86	87	83	85	85	90	90	83·3	7·5
22	92	93	92	90	88	80	84	85	83	87	89	90	80	79	79	82	86	88	88	90	87	87	89	87	86·5	6·9
23	84	85	82	83	76	79	77	80	83	83	86	86	83	88	88	89	92	94	96	94	92	96	92	91	86·5	6·9
24	89	91	92	90	92	87	85	83	76	85	87	67	66	67	69	69	68	62	67	65	67	69	74	71	77·0	**10·2**
25	78	83	74	74	78	80	72	71	65	60	64	64	67	73	77	82	76	77	79	77	78	77	79	78	74·1	7·3
26	75	70	64	74	84	84	89	87	88	79	81	83	73	69	70	76	72	73	76	72	72	70	73	71	76·2	8·6
27	69	69	71	70	71	71	69	73	69	77	72	65	69	68	68	65	65	70	63	65	72	54	64	70	68·3	9·2
28	65	64	52	78	80	67	77	74	74	72	69	61	65	75	71	80	80	94	96	98	100	100	100	94	78·1	5·2
29	94	94	87	90	85	84	84	85	90	89	87	87	84	82	92	94	93	91	93	84	80	89	92	91	88·4	6·0
30	92	96	94	89	82	82	89	82	71	76	79	81	82	71	70	70	67	69	65	71	75	75	75	74	78·6	5·0
31	76	75	80	84	84	79	80	80	74	67	69	68	70	72	74	74	72	71	74	79	78	80	78	81	75·6	**4·5**
Mean	83·5	**84·2**	82·8	83·4	83·8	82·3	82·2	82·2	81·8	80·8	79·6	77·7	**76·3**	77·2	77·9	80·0	78·1	79·9	80·5	81·0	82·2	82·0	82·9	82·5	81·0	7·5†
Vapour Pressure* ...	mb. **7·2**	mb. 7·3	mb. 7·3	mb. 7·4	mb. 7·4	mb. 7·3	mb. 7·4	mb. 7·5	mb. 7·5	mb. 7·5	mb. 7·6	mb. 7·6	mb. 7·6	mb. 7·7	mb. **7·7**	mb. 7·7	mb. 7·5	mb. 7·5	mb. 7·4	mb. 7·4	mb. 7·4	mb. 7·3	mb. 7·3	mb. 7·3	mb. 7·5‡	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	

* Computed from the mean temperature and mean relative humidity. † Mean of the column. ‡ Mean of the row.

HUMIDITY: ANNUAL MEANS FROM HOURLY VALUES.

For exact hours, Greenwich Mean Time.

111. Aberdeen: North Wall Screen on Tower: h_t (height of thermometer bulbs above the ground) = 12·5 metres. **1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Relative Humidity ...	% 86·2	% 86·2	% 86·2	% **86·7**	% 86·6	% 85·6	% 84·7	% 82·9	% 81·2	% 79·4	% 77·6	% 76·2	% **75·5**	% 75·5	% 76·6	% 78·0	% 79·0	% 80·6	% 81·9	% 83·5	% 84·3	% 84·8	% 85·4	% 85·7	% 82·1
Vapour Pressure, in millibars*	mb. 8·5	mb. 8·5	mb. 8·4	mb. **8·4**	mb. 8·4	mb. 8·5	mb. 8·6	mb. 8·6	mb. 8·8	mb. 8·8	mb. 8·9	mb. 8·9	mb. 9·0	mb. 9·0	mb. **9·0**	mb. 9·0	mb. 9·0	mb. 8·9	mb. 8·9	mb. 8·8	mb. 8·7	mb. 8·7	mb. 8·6	mb. 8·6	mb. 8·7

* Computed from the mean temperature and mean relative humidity.

RELATIVE HUMIDITY: MONTHLY MEANS AND DIURNAL INEQUALITIES.

The departures from the mean of the day are adjusted for non-cyclic change.

112. Aberdeen: North Wall Screen on Tower: h_t = 12·5 metres. **1931.**

Month.	Mean.	Hour. 1.	GMT. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Jan.	82·7	+1·5	+1·7	+2·7	+3·0	**+3·5**	+1·5	+1·6	0·0	+0·5	−0·5	−2·1	−3·1	−4·7	**−5·1**	−3·7	−1·9	−0·7	+0·4	−0·4	+0·9	+1·0	+1·8	+0·7	+1·3
Feb.	79·7	+2·1	+3·7	+3·7	**+4·5**	+4·1	+2·0	+0·7	+1·4	+0·4	−0·9	−2·5	−6·1	**−7·1**	−7·1	−5·6	−3·9	−2·7	−0·1	+2·2	+2·4	+2·6	+2·0	+2·5	+1·7
Mar.	**79·0**	**+3·4**	+1·9	+1·1	+2·5	+2·2	+3·4	+3·1	+2·1	+1·7	−0·3	−3·9	−6·4	**−6·7**	−6·1	−5·7	−3·7	−2·3	+0·4	+2·2	+1·8	+1·9	+1·5	+2·9	+3·1
April	79·3	+5·6	+4·8	+4·3	+4·3	+4·1	+3·9	+2·2	+0·5	−2·8	−5·1	−7·3	**−8·1**	−6·7	−6·2	−6·0	−4·3	−2·3	−1·9	−0·3	+3·0	+3·5	+4·2	+4·9	**+5·9**
May	81·1	+5·7	+5·9	+6·4	**+6·6**	+6·6	+4·9	+3·4	+0·7	−1·7	−4·0	−4·8	−6·5	−6·2	**−6·6**	−5·6	−4·9	−5·2	−5·2	−2·5	+0·1	+1·2	+3·0	+4·0	+4·9
June	79·3	+5·8	+7·3	+7·4	**+8·3**	+7·2	+3·9	+1·0	−1·6	−5·3	−5·8	−5·8	−6·1	**−6·9**	−6·3	−5·7	−4·8	−4·7	−3·2	−2·2	−0·2	+2·2	+3·7	+5·5	+5·9
July	85·8	+5·0	+4·9	+5·0	+5·0	**+5·4**	+4·2	+1·6	−0·9	−3·7	−4·5	−5·6	−6·6	−7·2	**−7·9**	−6·2	−3·1	−2·2	−0·6	−0·4	+1·8	+3·2	+3·5	+4·2	+5·0
Aug.	86·6	+5·0	+5·8	+5·9	+6·3	**+6·6**	+6·0	+4·2	+0·6	−2·3	−4·2	−7·1	−7·0	**−7·5**	−6·9	−6·9	−5·9	−4·7	−4·4	−1·1	+2·3	+2·9	+3·9	+4·1	+4·4
Sept.	82·5	+6·5	+6·2	+6·3	**+7·1**	+5·6	+5·3	+4·1	+1·1	−1·4	−4·7	−8·0	−9·0	−9·9	**−10·4**	−8·1	−8·1	−5·9	−2·7	+1·1	+3·7	+5·2	+5·1	+5·4	+5·5
Oct.	80·4	+4·8	+3·1	+2·9	+3·7	+4·1	+4·1	**+5·4**	+3·4	+0·9	−2·3	−4·8	−6·5	−8·7	**−9·5**	−7·0	−6·2	−3·3	−0·2	+0·6	+2·2	+2·5	+3·4	+3·5	+4·0
Nov.	**87·5**	+0·9	+0·8	+1·5	+1·3	+2·1	+1·5	**+2·4**	+1·2	+2·0	+0·4	−0·7	−2·5	**−3·1**	−2·7	−2·9	−0·9	+0·1	+0·4	−0·7	−0·8	−0·4	−0·4	+0·5	0·0
Dec.	81·0	+2·3	**+3·0**	+1·6	+2·2	+2·6	+1·1	+1·1	+1·1	+0·7	−0·3	−1·5	−3·3	**−4·7**	−3·9	−3·1	−1·0	−1·9	−1·0	−0·5	+0·1	+1·3	+1·1	+2·0	+1·7
Year	82·1	+4·0	+4·1	+4·1	**+4·6**	+4·5	+3·5	+2·6	+0·8	−0·9	−2·7	−4·5	−5·9	**−6·6**	−6·5	−5·5	−4·1	−3·0	−1·5	−0·1	+1·4	+2·3	+2·7	+3·4	+3·6

RAINFALL: ANNUAL TOTALS OF HOURLY VALUES.

Amounts, in millimetres, durations, in hours, for periods of sixty minutes between the exact hours, Greenwich Mean Time.

113. Aberdeen: H_r = 11·4 metres + 0·6 metres. **1931.**

Hour. G.M.T.	0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to Noon	Noon to 13	13 to 14	14 to 15	15 to 16	16 to 17	17 to 18	18 to 19	19 to 20	20 to 21	21 to 22	22 to 23	23 to 24	0 to 24
Amount	mm. **47·0**	mm. 32·0	mm. 33·1	mm. 28·3	mm. 34·5	mm. 24·5	mm. 21·5	mm. 23·0	mm. 27·0	mm. 20·6	mm. 27·9	mm. 25·0	mm. 23·2	mm. **17·7**	mm. 39·4	mm. 38·4	mm. 35·9	mm. 29·8	mm. 24·4	mm. 28·4	mm. 40·0	mm. 37·4	mm. 34·4	mm. 43·2	mm. 736·6
Duration	hr. 35·5	hr. 34·9	hr. **36·2**	hr. 30·7	hr. 33·0	hr. 28·2	hr. 30·9	hr. 24·0	hr. 25·7	hr. 18·3	hr. 20·2	hr. **17·9**	hr. 22·0	hr. 19·4	hr. 25·3	hr. 27·7	hr. 32·2	hr. 29·1	hr. 20·5	hr. 21·9	hr. 23·6	hr. 26·2	hr. 23·3	hr. 29·6	hr. 636·3

NOTES ON RAINFALL.

114. Aberdeen. **1931.**

Notable Falls of the Year.—The only fall calling for remark was that of June 14th, when, out of a total of 33 mm., 30 mm. fell in 6 hr. 20 min. During this fall the greatest intensities of the year were recorded, 5 mm. falling in 10 min. and 13 mm. in 35 min.

Dry Periods.—(Periods of 7 days or over with no rainfall or with trifling falls).

Mar. 14—26. 13 days with 0·5 mm.
Aug. 1—7. 7 days with no rain.
Aug. 26—Sept. 1 7 days with no rain (0·2 mm. was recorded from dew on the 30th Aug.).
Sept. 21—27. 7 days with no rain.

Wet Periods.—(With notes of the heavier rates of fall).

May 28—June 1. 53 mm. were recorded, of which 28 mm. fell in 4 hrs. 20 min. during the night of 28—29th May.
June 14. 33 mm. fell. (See "Notable Falls" above).
Nov. 23—24. 41 mm. fell in 21½ hrs.

Amounts in millimetres, for periods of sixty minutes, between the exact hours, Greenwich Mean Time.

115. Aberdeen : H_r (height of receiving surface above M.S.L.) = H (Height of station above M.S.L.) + h_r (height of receiving surface above ground) = **11·4** metres + **0·6** metres. **January, 1931.**

Hour G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0-24
Day	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	(·1)	...	...	...	...	...	...	...	...	...	...	...	0·1	(0·4)
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	·3	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	·1	...	...	...	...	·1	0·6	0·9
5	·1	·1	...	...	...	·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6	0·8
6	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·4
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	·6	·9	·2	...	...	...	...	...	...	2·0	2·3
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	...	...	...	0·6	0·9
11	...	...	...	...	...	...	...	...	·4	·1	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	0·7	0·7
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·7	·5	...	...	·2	·2	...	...	1·6	1·3
13	...	...	...	...	(·2)	(·1)	(·1)	(·4)	(·8)	...	...	...	...	...	(*)	(*)	(·2)	(*)	...	...	(·2)	(·1)	...	...	2·1	(2·6)
14	...	...	...	...	...	...	...	...	(·2)	(1·0)	(·3)	(·1)	...	...	·1	·1	...	...	...	...	...	...	...	...	1·8	(3·0)
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·8	1·5	·1	1·0	·3	·6	...	...	4·3	2·1
17	·1	...	·4	·7	2·3	·5	·2	·1	·1	...	...	...	...	...	...	...	...	...	...	·3	·4	·9	·7	·2	6·9	6·0
18	...	...	...	...	...	...	...	...	·1	...	·2	...	...	...	...	...	...	...	...	·6	·5	·3	·2	·6	2·5	5·0
19	·8	1·4	·5	·4	(·3)	(·2)	(·2)	(·2)	(·2)	(·2)	·1	·1	...	...	·4	...	...	...	...	...	...	...	...	...	5·0	**(10·6)**
20	...	...	...	...	...	...	·3	·1	3·4	·7	·4	...	...	...	...	...	...	...	...	...	...	...	...	...	4·9	2·0
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	0·1	0·1
22	2·0	1·2	·6	·2	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	3·7	**8·3**	6·0
23	2·4	1·4	·2	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	4·4	3·1
24	...	...	...	...	1·2	·7	·5	...	·1	...	...	·6	...	...	...	...	...	...	...	...	...	...	...	...	3·1	3·5
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	0·1	0·2
27	...	...	·1	...	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	0·9
28	...	...	...	...	·3	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	0·7
29	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·2
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	·4	·5	·7	·4	·9	2·1	2·8	2·8	4·1	3·5	2·2	1·4	21·8	11·9
Sum.	5·9	4·2	1·8	1·3	5·2	2·2	1·3	0·8	5·3	2·1	1·2	0·8	0·5	0·7	1·5	1·1	3·5	4·4	3·0	4·7	6·0	5·6	3·6	**6·1**	72·8	65·6
Total Duration.	hr. 4·0	hr. 3·4	hr. 3·1	hr. 1·9	hr. **5·8**	hr. 3·7	hr. 2·7	hr. 1·7	hr. 3·9	hr. 2·7	hr. 1·5	hr. 1·0	hr. 1·4	hr. 1·3	hr. 2·1	hr. 1·6	hr. 3·0	hr. 2·3	hr. 1·6	hr. 2·7	hr. 3·2	hr. 3·9	hr. 3·2	hr. 3·9	hr. 65·6	

116. Aberdeen : H_r = **11·4** metres + **0·6** metres. **February, 1931.**

Day	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0-24
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	1·0	1·0	·9	·7	·4	·9	·1	...	·1	·2	·1	·5	·2	...	...	...	...	...	...	...	...	...	...	...	6·1	8·2
2	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	1·8	·9	·6	...	·2	...	...	...	...	...	3·9	3·3
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	...	...	0·3	0·3
4	...	...	...	...	...	...	...	...	...	...	·1	·7	·7	·7	·6	·3	...	·4	·1	...	...	...	...	...	3·6	(5·9)
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	0·1	0·3
6	...	...	·3	·2	·3	·1	1·1	·8	5·4	3·6	2·0	·3	·8	...	...	...	...	...	...	...	...	...	...	...	**14·9**	**8·5**
7	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·2
8	...	...	...	...	...	...	...	...	·5	·3	·2	·1	...	·5	...	...	...	...	...	...	...	...	...	...	1·6	2·2
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	·4	·6	·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·5	1·7
11	...	...	...	...	...	...	...	...	...	...	...	...	...	2·3	·3	...	...	...	...	...	...	...	...	·2	2·8	2·0
12	·4	·1	1·2	(2·0)	(·5)	(1·3)	·5	·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6·6	5·1
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(·2)	(·7)	(·7)	(·3)	(·2)	(...)	(·1)	(·1)	(...)	(·3)	(2·6)	(3·1)
14	(·3)	(·3)	(·2)	(...)	(·1)	(·1)	...	(·2)	...	...	...	...	...	...	...	...	...	...	·1	·3	·4	·3	·1	...	(2·4)	(5·6)
15	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·2
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	·1	·2	2·4	2·2	·3	·1	·1	...	...	·1	·3	...	...	...	...	...	...	...	...	...	...	...	...	5·8	4·3
18	...	·2	3·0	·9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4·1	1·4
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	0·2	0·2
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·6	...	...	...	...	...	...	...	0·6	0·4
24	...	...	...	...	...	...	...	...	·1	(1·2)	(2·1)	(1·4)	(1·7)	(·3)	...	...	...	...	...	...	...	...	...	...	(6·8)	(5·1)
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·4	...	...	0·5	0·9
26	...	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·4
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(·5)	(1·5)	(2·0)	(1·5)
Sum.	1·8	2·1	**6·7**	**6·7**	3·5	2·7	1·8	1·7	6·1	5·3	4·6	3·4	3·4	4·2	3·1	1·9	2·0	0·7	0·6	0·3	0·6	1·1	0·6	2·0	66·9	60·8
Total Duration.	hr. 2·3	hr. 2·2	hr. **5·3**	hr. 4·3	hr. 3·7	hr. 2·7	hr. 2·1	hr. 2·0	hr. 2·8	hr. 3·1	hr. 3·2	hr. 4·6	hr. 2·8	hr. 3·3	hr. 3·1	hr. 2·3	hr. 2·0	hr. 1·2	hr. 1·0	hr. 0·6	hr. 1·3	hr. 2·3	hr. 0·7	hr. 1·9	hr. 60·8	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts in millimetres, for periods of sixty minutes, between the exact hours, Greenwich Mean Time.

117. Aberdeen: H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 11·4 metres + 0·6 metres. **March, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	(1·4)	(1·2)	(1·4)	(1·2)	(1·3)	(1·2)	(1·5)	(2·0)	(1·0)	(·1)	...	...	...	...	...	(·2)	...	...	...	...	...	...	...	...	**(12·5)**	**(9·3)**
2	...	...	...	...	...	...	...	...	...	...	...	...	...	(·1)	(3·5)	(2·5)	(·1)	...	...	...	...	...	...	...	(6·2)	(2·5)
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	(·1)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(0·1)	(0·2)
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	(✻)	(✻)	(✻)	(·1)	(·1)	(·1)	...	(·1)	(·4)	...	...	(·3)	(·3)	...	(·4)	(·3)	(·3)	(·3)	(·1)	...	(·1)	(✻)	(✻)	(·1)	(3·0)	(3·3)
7	(·1)	(·1)	(·1)	(✻)	(✻)	(·1)	(·1)	(·2)	(✻)	(·2)	(✻)	(·2)	(✻)	(·2)	(✻)	(·1)	(·1)	(·2)	(·4)	(✻)	(·2)	(·4)	(✻)	(·2)	(2·9)	(3·4)
8	...	...	...	...	...	...	(·1)	(·1)	(·1)	(✻)	...	...	...	...	(✻)	(✻)	(·1)	(·1)	...	...	...	...	...	(·1)	(0·6)	(3·4)
9	...	...	...	...	...	...	...	(✻)	(✻)	(✻)	(✻)	(·1)	(·1)	(·1)	(·1)	(✻)	(·1)	(·1)	(·1)	...	...	...	...	...	(0·7)	(1·4)
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	·1	·2	·5	·1	·3	·1	·2	·2	1·8	2·3
11	·1	·2	...	...	...	...	...	...	·1	·2	...	·5	·1	...	...	...	·2	...	...	...	...	...	...	(·1)	(1·5)	(1·6)
12	(·1)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(0·1)	(0·2)
13	...	...	...	...	...	(·1)	(·2)	(1·2)	(1·4)	(1·2)	(·4)	(·1)	...	...	...	...	...	...	...	...	...	...	...	...	(4·6)	(5·8)
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	·2	·1	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	0·8
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	...	...	...	...	...	...	·1	·8	·5	1·7	2·3
28	1·2	·6	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·0	2·4
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	2·9	2·1	1·7	1·3	1·4	1·7	2·0	**3·6**	3·2	1·8	0·4	1·2	0·5	0·4	4·4	3·1	1·0	0·9	1·1	0·1	0·6	0·6	1·0	1·2	38·2	38·9
Total Duration.	hr. 2·6	hr. 2·3	hr. 1·7	hr. 1·2	hr. 1·2	hr. 2·1	hr. 3·2	hr. 3·3	hr. **3·8**	hr. 1·6	hr. 1·0	hr. 1·2	hr. 0·6	hr. 0·6	hr. 1·9	hr. 1·4	hr. 1·5	hr. 1·2	hr. 1·2	hr. 0·1	hr. 0·7	hr. 0·8	hr. 1·3	hr. 2·4	hr 38·9	

118. Aberdeen: H_r = 11·4 metres + 0·6 metres. **April, 1931.**

Day	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	·4	·8	·4	·9	1·2	1·5	1·5	1·3	·8	·9	·4	·4	**10·5**	**11·9**
3	·2	·1	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	1·5
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·7	...	...	...	...	...	·3	1·0	0·6
5	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·5
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	0·1	0·3
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	·7	·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·2	1·5
12	·2	·1	...	...	·1	...	...	...	...	...	...	...	...	...	·1	·1	·1	·3	...	...	·2	...	...	...	1·2	1·8
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	0·2	0·3
14	...	...	...	...	...	...	...	...	...	...	...	...	·3	...	...	...	·1	...	...	...	...	...	...	...	0·4	0·3
15	...	·4	·1	·1	...	...	...	...	...	...	...	...	·2	...	...	...	·2	1·1	...	...	...	...	...	...	2·1	2·7
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	·3	·6	...	·1	...	...	·1	...	...	1·5	1·7
17	...	...	...	...	...	...	...	...	...	...	·1	...	...	·7	·1	·2	·2	·1	1·6	1·5	·8	·4	·6	·8	7·1	7·4
18	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·3
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·1	...	...	...	...	...	...	...	...	0·2	0·5
20	...	...	...	...	...	...	...	·1	...	...	...	...	·7	·1	·1	...	·4	...	...	·2	...	...	...	...	1·6	1·4
21	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	1·0	1·2	·1	...	...	...	...	·1	·5	3·1	2·8
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	0·1	(0·3)
23	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	0·1	0·3
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	0·4	0·4
25	·6	·1	·1	...	...	...	·1	·1	·2	·1	·3	·5	·2	...	...	·1	...	·1	...	...	...	...	...	...	2·5	4·1
26	...	...	...	·2	·3	·3	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	1·2	1·6
27	...	...	·1	·1	...	...	...	...	...	...	·2	·3	·6	·2	...	·2	·1	...	...	...	...	...	...	...	1·8	3·5
28	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	0·2	0·3
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	·1	...	...	·4	...	1·0	...	...	...	·2	...	·1	...	...	...	...	...	1·8	1·9
Sum.	1·3	0·7	0·4	0·4	0·4	0·3	1·0	0·8	0·2	0·1	1·0	0·8	3·8	1·9	1·2	2·9	**4·4**	3·9	3·3	3·0	1·8	1·5	1·3	2·6	39·0	47·9
Total Duration.	hr. 2·4	hr. 1·5	hr. 1·1	hr. 1·0	hr. 0·4	hr. 0·6	hr. 1·5	hr. 1·5	hr. 0·4	hr. 0·1	hr. 1·6	hr. 1·2	hr. 4·1	hr. 2·6	hr. 2·3	hr. 3·9	hr. **4·8**	hr. 2·8	hr. 2·3	hr. 2·2	hr. 2·2	hr. 2·5	hr. 2·0	hr. 2·9	hr. 47·9	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts in millimetres, for periods of sixty minutes, between the exact hours, Greenwich Mean Time.

119. Aberdeen: H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 11·4 metres + 0·6 metres. **May, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	·3	...	...	·2	·5	...	...	·2	...	·1	...	...	...	...	1·3	1·5
2	...	...	...	...	...	...	...	...	...	...	...	...	·3	...	...	·1	·2	...	...	...	...	...	...	...	0·6	0·6
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	·3	1·0	1·1	2·2	4·7	1·1	·8	·1	...	·6	1·1	...	·1	...	...	...	...	...	...	...	...	...	...	...	13·1	7·9
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	...	...	...	...	...	...	...	0·4	0·4
6	...	·1	·5	·6	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·4	2·9
7	...	...	...	...	...	...	...	...	...	...	...	...	·4	1·0	·2	...	...	...	...	...	...	...	...	...	1·6	1·0
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	·1	...	·1	·5	1·0	2·1	1·9	·7	·1	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	6·7	5·7
11	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·4
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·8	·3	...	...	...	1·2	1·4
14	...	...	...	...	...	...	...	...	...	...	...	·2	1·1	...	·7	3·1	...	...	...	...	...	...	...	...	5·1	1·2
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	1·3	·1	...	...	...	...	...	...	2·4	1·5
17	·1	·9	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·1	1·2
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	·2	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	0·5
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·8	1·4	·4	2·6	2·3
23	·2	·2	·3	·7	1·0	1·2	·6	·6	·1	...	...	...	...	...	...	...	...	...	...	·2	...	...	1·1	1·9	8·1	7·8
24	·8	·2	·1	·1	·4	·9	·3	...	...	...	...	...	...	...	·3	1·0	5·7	2·1	1·5	·2	·1	...	...	...	13·7	**8·6**
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·8	6·2	9·4	**18·4**	2·5
29	8·9	·7	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9·7	1·9
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·9	3·7	3·5	2·6	2·6	2·8	16·1	5·9
Sum.	10·3	3·2	2·1	3·7	6·9	4·4	4·2	2·6	0·8	0·7	1·4	0·2	2·1	1·2	1·7	5·2	7·6	2·4	2·5	5·0	3·9	6·2	11·3	**14·5**	104·1	55·2
Total Duration.	hr. 3·1	hr. 4·0	hr. 3·0	hr. 3·2	hr. 4·3	hr. 4·0	hr. **5·0**	hr. 1·8	hr. 1·2	hr. 0·7	hr. 1·0	hr. 0·3	hr. 1·2	hr. 0·6	hr. 1·6	hr. 1·7	hr. 2·5	hr. 1·8	hr. 2·0	hr. 2·8	hr. 1·3	hr. 2·0	hr. 3·3	hr. 2·8	hr. 55·2	

120. Aberdeen: H_r = 11·4 metres + 0·6 metres. **June, 1931.**

Day.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration 0–24
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	2·5	2·0	2·0	2·0	1·8	1·3	·8	·5	·6	·5	·2	...	·3	·4	·8	·5	·2	·3	·1	...	...	...	...	...	16·8	**14·1**
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	·3	·6	·1	·7	·4	·3	·6	·1	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	3·3	5·3
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·1	·3	·3	...	...	0·8	1·8
7	·1	·2	·3	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·9	2·9
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·7	·8	·7	·6	·1	...	2·9	4·3
9	·1	·7	1·6	...	·3	...	...	...	...	...	...	...	...	...	...	·2	1·0	2·7	1·3	...	...	...	...	·5	8·4	6·8
10	·4	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	·6	·4	...	·1	3·0	·1	...	...	4·9	4·9
11	...	...	...	...	·7	...	...	...	...	...	1·6	...	...	...	...	...	...	...	...	...	...	...	...	...	2·3	1·1
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	...	·1	...	...	0·6	0·3
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	·5	1·4	·7	·4	...	...	...	...	...	...	...	1·0	1·6	·8	·6	·1	1·2	12·6	6·8	1·7	3·8	**33·2**	9·6
15	3·2	·9	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4·2	2·3
16	...	...	...	...	·1	·1	...	...	...	...	...	...	...	...	...	·5	·2	...	...	...	...	...	...	...	0·9	1·1
17	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·7	2·7	·2	...	...	...	...	...	...	...	3·7	2·0
18	...	...	...	...	...	...	...	...	...	...	...	...	·5	...	...	...	...	1·3	·4	...	...	...	...	...	2·2	0·9
19	...	...	...	...	...	...	...	...	...	...	...	·5	·2	...	...	...	...	...	...	...	...	...	...	...	0·7	0·9
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	·5	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6	0·9
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	·1	...	...	...	0·4	0·9
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	·4	·2	...	...	0·8	1·7
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	6·3	4·3	4·7	2·9	5·5	2·6	1·5	1·1	0·7	0·5	2·0	0·5	1·0	0·5	2·5	5·5	3·0	5·5	2·7	3·0	**17·1**	8·1	1·8	4·3	87·6	61·8
Total Duration.	hr. 3·8	hr. 4·5	hr. **4·9**	hr. 3·0	hr. 4·5	hr. 3·6	hr. 2·0	hr. 1·5	hr. 1·5	hr. 1·0	hr. 1·4	hr. 0·6	hr. 1·0	hr. 1·1	hr. 1·9	hr. 3·1	hr. 2·9	hr. 3·2	hr. 2·7	hr. 3·2	hr. 4·4	hr. 3·2	hr. 1·1	hr. 1·7	hr. 61·8	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts in millimetres, for periods of sixty minutes, between the exact hours, Greenwich Mean Time.

121. Aberdeen : H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 11·4 metres + 0·6 metres. **July, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	·3	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	(·2)	...	·2	·1	...	...	·1	1·1	(3·4)
2	...	·1	...	...	·9	·2	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	1·3	(1·4)
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	1·0	·9	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·0	1·9
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	·3	·6	1·7	3·2	1·7	·4	·1	·1	·4	...	·1	·2	...	...	...	...	...	8·8	9·5
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	·9	·9	·4	·7	1·5	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4·7	6·0
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	0·1	...
12	...	·1	·1	...	...	...	·1	·1	1·1	·5	·1	...	·3	...	...	1·3	·5	·4	1·8	...	...	...	...	...	6·4	**10·6**
13	·2	·1	...	·4	·1	...	...	...	...	...	·3	·9	...	...	...	...	·4	...	...	...	...	...	...	...	2·4	3·0
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	·1	·5	0·7	1·2
17	·3	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·4	·2	1·2	3·1
18	·4	·3	·5	·7	·3	·1	·1	·5	1·2	·8	...	...	...	...	...	...	...	·1	·3	...	...	...	...	...	5·3	8·6
19	·1	·1	·2	·4	...	·4	·1	...	...	...	...	...	...	...	...	...	·1	·1	...	...	...	...	...	·1	1·6	4·8
20	...	...	·1	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·5
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	1·2	1·8	3·1	2·0
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	·2	·3	·6	·2	·2	·4	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	2·1	5·0
25	...	...	...	...	...	...	·2	·1	...	·1	·4	·4	·3	·1	1·1	2·2	·5	·1	·1	...	·2	·2	·1	...	6·1	6·8
26	...	...	...	...	...	...	...	...	...	...	...	...	·2	·1	...	·8	·5	·8	·6	·5	·1	...	...	...	3·6	4·7
27	...	...	...	·5	·6	2·4	1·1	·2	...	...	...	...	...	...	...	...	...	·5	...	...	...	...	...	...	5·3	4·6
28	1·3	...	...	...	...	...	·1	...	...	1·0	...	·2	·6	·3	·4	...	...	·2	·3	...	...	...	...	...	4·4	4·5
29	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	·2	1·5	·9	·9	...	...	...	...	...	...	3·6	2·8
30	...	...	...	...	...	...	...	·1	...	...	...	...	...	·1	8·2	·6	...	·2	...	...	...	·1	...	...	**9·3**	2·0
31	...	...	·5	·5	·1	·1	·3	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·6	2·2
Sum.	3·3	1·9	2·1	4·2	3·2	3·8	3·1	3·0	3·2	4·1	4·1	3·3	1·9	0·7	**10·0**	6·8	2·9	3·6	3·3	0·8	0·4	0·6	1·8	2·8	74·9	88·6
Total Duration.	hr. 4·3	hr. 4·8	hr. 5·8	hr. 6·0	hr. 4·7	hr. 4·1	hr. 5·5	hr. 5·1	hr. 4·0	hr. 3·1	hr. 3·4	hr. 2·6	hr. 3·2	hr. 1·6	hr. 3·0	hr. 4·8	hr. 4·3	hr. **6·2**	hr. 2·8	hr. 2·0	hr. 1·1	hr. 1·3	hr. 2·2	hr. 2·7	hr. 88·6	

122. Aberdeen : H_r = 11·4 metres + 0·6 metres. **August, 1931.**

Day.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration 0–24
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	·4	·3	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	0·8	1·2
9	...	...	...	...	...	·1	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·7
10	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·4
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·6	...	...	...	...	...	...	...	...	...	1·6	0·4
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·5	·3	...	...	...	...	...	...	...	1·0	1·6
13	...	...	...	...	...	...	·5	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·8	1·4
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	·4	...	...	·7	...	...	·5	·6	·4	...	...	...	...	...	...	2·6	2·4
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·3	...	·4	·5	·1	·6	1·7	3·7	3·0
20	4·1	...	·4	·3	...	·1	...	...	·1	·6	4·3	5·6	·5	1·3	·9	2·4	·1	·2	...	...	·2	·2	1·4	1·2	**23·9**	**12·1**
21	1·9	·8	3·9	1·1	·7	·6	·3	·7	...	·2	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	10·3	7·5
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·1	...	...	0·2	0·4
23	...	...	...	...	...	...	...	...	·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	0·3
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	·4	...	·3	...	...	...	...	1·2	1·2
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	(...)	(·1)	(...)	(·1)	(...)	(...)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	(...)
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	**6·0**	0·9	4·5	1·5	0·7	0·8	1·3	1·2	0·9	1·2	4·3	5·6	1·2	1·3	2·7	3·5	1·6	1·4	...	0·7	0·8	0·4	2·0	2·9	47·4	32·6
Total Duration.	hr. 1·7	hr. 1·0	hr. 1·6	hr. 1·6	hr. 1·0	hr. 1·6	hr. 2·3	hr. 1·4	hr. 1·0	hr. 1·8	hr. 1·0	hr. 1·0	hr. 1·7	hr. 1·0	hr. 1·3	hr. 1·8	hr. **2·5**	hr. 2·1	hr. ...	hr. 0·9	hr. 1·0	hr. 0·7	hr. 1·0	hr. 1·6	hr. 32·6	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts in millimetres, for periods of sixty minutes, between the exact hours, Greenwich Mean Time.

123. Aberdeen : H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 11·4 metres + 0·6 metres. **September, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	·3	1·4	1·8	·7	·5	·2	·3	·3	·2	·3	·5	·5	·3	·4	...	...	...	·1	·1	...	·1	...	...	...	**8·0**	**10·0**
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	·2	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·4
5	...	...	...	...	...	...	...	...	...	...	...	...	·1	·2	·1	...	·2	...	...	...	...	...	...	...	0·6	0·8
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	2·3	·3	·4	...	...	...	...	...	...	3·3	1·6
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	·3	·1	...	...	...	...	...	...	...	...	0·9	1·1
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·9
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(...)	(...)	(·1)	0·1	...
16	...	...	...	...	...	...	...	...	·3	...	·2	·4	·1	·3	2·2	·7	1·4	·1	...	...	...	...	...	...	5·7	4·8
17	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·2
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	·5	·1	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	1·2
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	...	...	...	0·4	0·3
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	·4	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	0·6
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·9	·6	...	...	...	1·5	1·3
Sum.	0·5	1·4	2·5	0·8	0·9	0·2	0·3	0·3	0·9	0·3	0·9	0·9	0·5	1·4	2·9	**3·1**	1·9	0·6	0·1	0·9	1·1	(...)	(...)	(0·1)	22·5	23·2
Total Duration.	hr. 0·6	hr. 1·0	hr. **2·2**	hr. 1·2	hr. 1·9	hr. 0·4	hr. 0·4	hr. 0·4	hr. 1·3	hr. 0·5	hr. 1·7	hr. 1·2	hr. 1·1	hr. 2·0	hr. 2·0	hr. 1·3	hr. 1·5	hr. 0·8	hr. 0·1	hr. 0·7	hr. 0·9	hr. (...)	hr. (...)	hr. (...)	hr. 23·2	

124. Aberdeen : H_r = 11·4 metres + 0·6 metres. **October, 1931.**

Day	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	·3	...	...	...	...	...	...	...	...	...	...	...	0·3	0·3
2	...	...	...	...	...	1·6	1·0	·9	·1	...	...	...	...	...	2·1	...	·9	...	...	...	...	...	...	...	6·6	2·8
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6	0·6
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	·3	·6	·7	·3	2·3	3·6
7	·7	·5	1·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·2	2·8
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·1
12	...	...	...	·1	·3	·5	·5	...	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·7	3·0
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	0·3	0·5
14	·7	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·8	0·3
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	0·1	0·3
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	0·2	0·2
20	1·1	·4	...	...	...	...	·3	·2	...	...	·2	·3	...	...	·1	·5	...	...	...	·3	·5	·2	...	...	4·1	3·7
21	...	·1	·4	·1	·4	·1	...	...	...	...	·4	·3	·3	...	...	...	...	...	...	...	...	...	...	...	2·1	1·8
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	·4	4·5	·3	·6	...	·3	...	...	...	...	...	...	·1	...	1·2	...	...	·5	...	...	·5	·5	...	...	**8·9**	4·6
25	...	...	...	...	...	...	(·4)	(1·1)	(·1)	(·1)	(*)	...	...	...	...	...	...	...	...	...	...	...	...	...	(1·7)	(1·4)
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	0·1	0·2
28	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	·3	·3	·1	...	...	·2	...	...	...	1·0	0·8
29	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·3	·6	·5	·5	...	...	·1	...	...	·5	2·7	**5·7**
30	·2	·1	(*)	(·1)	(·1)	(·1)	...	...	·4	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	1·1	(2·1)
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·7	·2	·1	...	...	2·0	1·2
Sum.	3·7	**5·6**	2·1	0·9	0·8	2·6	2·2	2·3	0·6	0·4	0·6	0·6	0·8	0·3	3·7	1·5	1·8	1·1	...	2·0	1·8	1·4	0·8	1·3	38·9	36·0
Total Duration.	hr. **3·4**	hr. 2·6	hr. 1·7	hr. 1·4	hr. 1·1	hr. 2·0	hr. 2·9	hr. 1·1	hr. 0·9	hr. 0·5	hr. 0·6	hr. 0·5	hr. 1·1	hr. 1·1	hr. 2·0	hr. 1·9	hr. 1·9	hr. 1·5	hr. ...	hr. 0·9	hr. 1·6	hr. 1·9	hr. 1·3	hr. 2·1	hr. 36·0	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts in millimetres, for periods of sixty minutes, between the exact hours, Greenwich Mean Time.

125. Aberdeen: H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = **11·4** metres + **0·6** metres. **November, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	·3	...	...	...	...	...	·1	...	...	...	...	·1	·4	·1	...	...	...	...	...	...	1·0	1·5
4	...	...	...	·1	·8	1·9	1·6	·1	...	...	...	...	...	·7	...	...	...	...	...	...	...	...	...	...	5·2	3·6
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·3
7	...	...	...	...	...	...	...	...	·2	·1	·1	·2	...	...	...	...	...	·4	2·0	1·4	·2	·7	·1	·3	5·7	5·8
8	·1	...	...	...	...	...	...	...	...	·1	...	...	·1	·3	·3	...	1·4	·4	(·1)	...	...	...	...	...	2·8	(3·8)
9	...	...	...	...	...	...	...	...	1·1	...	...	...	...	...	...	...	...	...	...	·9	·5	...	2·5	·5	5·5	2·6
10	·7	·3	·4	·4	...	...	...	...	...	...	·3	...	...	...	...	...	...	...	...	...	...	·1	...	...	2·2	3·4
11	...	...	...	·5	3·6	...	...	·3	...	...	...	...	...	1·9	2·7	·7	...	...	...	...	...	...	...	...	9·7	2·7
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	·2	·1	...	·1	...	...	...	...	·2	1·1	...	...	1·7	1·8
15	·4	...	·1	·3	·2	·3	·1	·1	(·1)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·6	(3·4)
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·2
18	...	...	...	...	...	...	...	...	·2	1·2	2·7	3·0	4·1	·8	·7	·6	·9	1·5	1·4	·9	1·6	1·5	·7	·3	22·1	15·1
19	·3	·1	·7	·6	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·0	5·6
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·6	·8	·3	...	...	1·7	1·6
21	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·4
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	·1	1·0	1·3	2·0	3·8	3·9	2·8	1·0	1·5	1·4	1·7	1·4	1·8	1·9	1·9	2·6	3·1	2·0	**35·2**	**17·3**
24	1·1	1·9	1·2	1·4	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(·1)	...	...	6·0	4·6
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·9	1·0	...	3·9	1·8
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·4	1·1	·5	2·1	2·7
27	·6	·7	·3	·3	...	·1	...	·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·5	4·0
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	3·2	3·4	2·9	3·6	5·4	2·4	1·8	2·0	2·9	3·4	7·0	7·1	7·2	4·8	5·2	2·9	4·4	3·8	5·3	5·7	5·3	**9·7**	8·5	3·6	111·5	82·2
Total Duration.	hr. 4·1	hr. 4·3	hr. 4·2	hr. 4·4	hr. 3·7	hr. 2·3	hr. 1·7	hr. 2·1	hr. 2·7	hr. 2·4	hr. 2·7	hr. 2·3	hr. 2·7	hr. 3·6	hr. 3·4	hr. 2·7	hr. 3·8	hr. 3·5	hr. 3·5	hr. 3·5	hr. 4·0	hr. **5·8**	hr. 4·6	hr. 4·2	hr. 82·2	

126. Aberdeen: H = **11·4** metres + **0·6** metres. **December, 1931.**

Day	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	·1	...	·1	·3	·6	·1	...	1·3	3·2
3	...	...	...	...	...	...	·2	2·3	1·7	·5	...	...	...	...	...	·1	·2	...	...	...	...	...	...	...	5·0	2·9
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	0·4	0·6
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	0·1	0·5
8	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·2
9	...	...	...	...	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	1·2	1·3	3·3	2·6
10	1·3	1·2	·8	·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·8	3·8
11	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
12	...	...	...	...	...	...	...	...	...	...	...	·1	·1	...	...	...	...	...	...	...	...	...	...	...	0·2	0·7
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	...	...	1·0	0·3
15	...	...	...	...	...	·2	·1	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	0·7
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·3	·1	...	...	...	...	·1	0·6	2·9
19	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	2·0
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·2	1·2	·3	...	...	...	2·7	2·7
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	0·1	0·1
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	·2	...	...	...	...	...	...	...	...	(·2)	...	...	...	(·1)	(·9)	(·7)	...	...	...	...	(2·1)	(3·1)
29	...	...	...	(·1)	(·1)	(*)	(·4)	(1·2)	·2	·2	·3	·5	·1	(*)	·4	·8	1·4	1·0	·3	·2	(*)	·1	·4	·3	(8·0)	(12·9)
30	·2	·6	·8	(·4)	(·3)	(·1)	(·1)	...	(·3)	...	(·1)	...	(·1)	(·1)	...	...	...	...	...	...	...	...	...	...	(3·1)	(4·1)
31	...	...	...	...	...	(·2)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(0·2)	(0·2)
Sum.	1·8	2·2	1·6	1·0	0·6	0·8	1·0	3·6	2·2	0·7	0·4	0·6	0·3	0·3	0·5	0·9	1·8	1·5	2·5	2·2	0·6	2·2	1·7	1·8	32·8	43·5
Total Duration.	hr. 3·2	hr. 3·3	hr. 1·6	hr. 1·5	hr. 0·7	hr. 1·1	hr. 1·6	hr. 2·1	hr. 2·2	hr. 0·8	hr. 1·1	hr. 1·4	hr. 1·1	hr. 0·6	hr. 0·7	hr. 1·2	hr. 1·5	hr. 2·5	hr. 3·3	hr. 2·3	hr. 1·9	hr. 1·8	hr. 2·6	hr. **3·4**	hr. 43·5	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

For periods of sixty minutes, between the exact hours of Local Apparent Time.

127. Aberdeen : h_s (height of recorder above ground) = 20·7 metres. **January, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	—	—	—	—	...	·8	·7	1·0	·4	·2	·1	...	—	—	—	—	—	3·2	48
2	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
3	—	—	—	—	—	...	...	...	...	·1	·4	·2	...	—	—	—	—	—	0·7	10
4	—	—	—	—	—	...	·2	·5	·4	·8	·8	·8	...	—	—	—	—	—	3·5	51
5	—	—	—	—	—	...	...	·7	·9	1·0	1·0	·1	...	—	—	—	—	—	3·7	54
6	—	—	—	—	—	...	·3	1·0	·2	·8	1·0	·5	...	—	—	—	—	—	3·8	56
7	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
8	—	—	—	—	—	...	·1	·2	...	...	...	...	...	—	—	—	—	—	0·3	4
9	—	—	—	—	—	...	·3	·7	·6	·3	...	...	...	—	—	—	—	—	1·9	27
10	—	—	—	—	—	...	...	...	...	·1	...	...	...	—	—	—	—	—	0·1	1
11	—	—	—	—	—	...	...	·2	...	...	...	·4	...	—	—	—	—	—	0·6	8
12	—	—	—	—	—	...	...	·1	·3	·4	·7	...	...	—	—	—	—	—	1·5	21
13	—	—	—	—	—	...	·8	1·0	·8	1·0	·3	·3	...	—	—	—	—	—	4·2	58
14	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
15	—	—	—	—	—	...	...	·3	...	...	...	...	...	—	—	—	—	—	0·3	4
16	—	—	—	—	—	...	...	...	...	·6	1·0	·9	...	—	—	—	—	—	2·5	34
17	—	—	—	—	—	...	·7	1·0	1·0	·8	·9	·6	...	—	—	—	—	—	5·0	68
18	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
19	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
20	—	—	—	—	—	...	...	·1	·6	1·0	1·0	1·0	...	—	—	—	—	—	3·7	49
21	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
22	—	—	—	—	—	·1	·8	·9	·6	·6	...	...	...	—	—	—	—	—	3·0	39
23	—	—	—	—	—	...	·8	1·0	1·0	1·0	1·0	·7	...	—	—	—	—	—	5·5	71
24	—	—	—	—	—	...	...	...	...	...	...	...	·2	—	—	—	—	—	0·2	3
25	—	—	—	—	—	·4	1·0	·9	·3	...	...	...	...	—	—	—	—	—	2·6	33
26	—	—	—	—	—	·2	...	·1	·8	·1	·6	1·0	·3	—	—	—	—	—	3·1	39
27	—	—	—	—	—	·3	1·0	1·0	1·0	1·0	1·0	1·0	·1	—	—	—	—	—	**6·4**	**80**
28	—	—	—	—	—	...	...	·3	·3	...	·4	...	...	—	—	—	—	—	1·0	13
29	—	—	—	—	...	...	...	...	...	...	·2	·9	...	...	—	—	—	—	1·1	14
30	—	—	—	—	...	...	1	1·0	1·0	1·0	1·0	·8	...	...	—	—	—	—	4·9	60
31	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
Sum.	—	—	—	—	...	1·0	6·9	**11·7**	10·8	11·0	11·5	9·3	0·6	...	—	—	—	—	62·8	—
Mean	—	—	—	—	...	·03	·22	**·38**	·35	·35	·37	·30	·02	...	—	—	—	—	2·03	27

128. Aberdeen : h_s = 20·7 metres. **February, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
2	—	—	—	—	...	...	...	...	·4	...	...	...	...	...	—	—	—	—	0·4	5
3	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
4	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
5	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
6	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
7	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
8	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
9	—	—	—	—	...	...	·4	...	·1	·3	·4	1·0	·3	...	—	—	—	—	2·5	28
10	—	—	—	—	...	·5	...	...	·3	...	·1	...	·4	...	—	—	—	—	1·3	14
11	—	—	—	—	...	·3	...	...	...	...	...	...	·6	...	—	—	—	—	0·9	10
12	—	—	—	—	...	·4	·7	·8	1·0	1·0	·9	...	...	...	—	—	—	—	4·8	53
13	—	—	—	—	...	·5	1·0	·8	1·0	·9	·6	·4	...	...	—	—	—	—	5·2	57
14	—	—	—	—	...	·7	·1	·1	·6	·1	...	...	...	...	—	—	—	—	1·6	17
15	—	—	—	—	...	·8	·5	·9	·9	·9	·6	·8	·1	...	—	—	—	—	5·5	59
16	—	—	—	—	·1	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·8	...	—	—	—	—	7·9	83
17	—	—	—	—	...	...	...	...	·2	·7	·1	...	...	...	—	—	—	—	1·0	11
18	—	—	—	—	...	...	·2	·4	·9	·8	·9	1·0	·6	...	—	—	—	—	4·8	50
19	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
20	—	—	—	—	...	...	...	·2	·2	...	·1	·8	1·0	...	—	—	—	—	2·3	23
21	—	—	—	—	·5	·5	·9	1·0	1·0	1·0	1·0	1·0	·9	·5	—	—	—	—	8·3	85
22	—	—	—	—	·7	1·0	1·0	·8	·5	...	...	...	...	...	—	—	—	—	4·0	40
23	—	—	—	—	...	·5	1·0	1·0	1·0	1·0	·3	...	...	...	—	—	—	—	4·8	48
24	—	—	—	—	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
25	—	—	—	...	·5	...	...	...	·4	1·0	1·0	1·0	·4	...	...	—	—	—	4·3	42
26	—	—	—	...	·6	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·4	...	—	—	—	**9·0**	**87**
27	—	—	—	...	...	·9	·6	·9	·6	·3	1·0	1·0	·9	·2	...	—	—	—	6·4	62
28	—	—	—	...	·2	·4	1·0	·9	·8	1·0	1·0	·7	...	·7	...	—	—	—	6·7	64
Sum.	—	—	—	...	2·6	8·5	9·4	9·8	**11·9**	11·0	10·0	9·7	7·0	1·8	...	—	—	—	81·7	—
Mean	—	—	—	...	·09	·30	·34	·35	**·43**	·39	·36	·35	·25	·06	...	—	—	—	2·92	31
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.

For periods of sixty minutes, between the exact hours of Local Apparent Time.

129. Aberdeen : h_s (height of recorder above ground) = 20·7 metres. **March, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	—	—	...	...	...	...	·6	1·0	·6	·2	·9	·4	...	...	—	—	—	3·7	35
2	—	—	—	...	...	...	·3	·2	...	...	...	...	...	...	...	—	—	—	0·5	5
3	—	—	—	...	...	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·8	...	—	—	—	8·8	83
4	—	—	—	...	...	·1	...	...	·3	·4	1·0	·9	·5	...	...	—	—	—	3·2	30
5	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
6	—	—	—	...	·1	·3	·3	1·0	·6	1·0	·7	·7	...	...	...	—	—	—	4·7	43
7	—	—	—	...	...	...	·2	·5	·5	·8	·7	·7	·5	...	...	—	—	—	3·9	35
8	—	—	—	...	...	...	·1	·1	·6	·7	·1	·4	...	·1	...	—	—	—	2·1	19
9	—	—	—	...	...	...	·4	·3	·2	·5	·3	·3	·2	·2	...	—	—	—	2·4	21
10	—	—	—	...	...	...	...	...	...	...	·5	...	·1	·1	...	—	—	—	0·7	6
11	—	—	—	...	·2	·4	·7	·2	·6	·6	·6	·2	·2	·2	...	—	—	—	3·9	35
12	—	—	—	...	·5	·7	·9	1·0	1·0	1·0	1·0	1·0	1·0	·9	·1	—	—	—	9·1	80
13	—	—	—	...	...	...	...	...	...	...	...	...	...	·1	...	—	—	—	0·1	1
14	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
15	—	—	—	...	...	...	...	...	·1	·5	1·0	·9	·2	...	...	—	—	—	2·7	23
16	—	—	—	...	...	...	...	...	...	·3	1·0	·1	·1	...	...	—	—	—	1·5	13
17	—	—	—	...	·1	·2	·6	·3	·5	·5	·3	·4	·1	...	...	—	—	—	3·0	25
18	—	—	—	...	...	...	...	...	...	·1	...	·1	...	...	...	—	—	—	0·2	2
19	—	—	—	...	...	...	...	...	...	·3	...	·9	1·0	·1	...	—	—	—	2·3	19
20	—	—	—	...	...	...	·6	·9	1·0	1·0	1·0	·8	·5	·5	...	—	—	—	6·3	52
21	—	—	...	...	...	...	·1	·9	·9	·1	·4	...	...	...	...	...	—	—	2·4	20
22	—	—	...	...	...	...	...	·8	·4	·2	·3	·1	·1	...	...	...	—	—	1·9	16
23	—	—	...	...	...	...	...	...	·1	·1	...	...	...	·1	...	...	—	—	0·3	2
24	—	—	...	·1	·6	1·0	·8	·9	·9	1·0	1·0	1·0	·9	·9	...	...	—	—	9·1	73
25	—	—	...	...	...	·3	·9	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·5	...	—	—	8·7	70
26	—	—	...	·4	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·4	...	—	—	**10·8**	**86**
27	—	—	...	·2	·9	1·0	1·0	·7	·6	·1	...	·1	...	...	...	...	—	—	4·6	37
28	—	—	...	...	·1	...	...	·1	·2	...	...	...	...	...	...	...	—	—	0·4	3
29	—	—	...	·1	·4	·9	1·0	1·0	1·0	·9	·8	1·0	·9	·9	·1	...	—	—	9·0	70
30	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...
31	—	—	...	...	...	...	...	...	...	...	·3	·1	·1	·1	·1	...	—	—	0·7	5
Sum.	—	—	...	0·8	3·9	6·9	9·9	12·5	13·5	13·7	**14·2**	13·6	9·8	7·0	1·2	...	—	—	107·0	—
Mean	—	—	...	·03	·13	·22	·32	·40	·44	·44	**·46**	·44	·32	·23	·04	...	—	—	3·45	29

130. Aberdeen : h_s = 20·7 metres. **April, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	—	...	...	...	·1	·2	·1	...	·4	·8	·9	·9	·3	...	...	—	—	3·7	28
2	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...
3	—	—	...	...	...	·5	·4	·8	1·0	1·0	·8	·5	·3	·1	·2	...	—	—	5·6	42
4	—	—	...	·7	·3	·2	·1	·3	...	·1	·5	·9	·3	...	...	...	—	—	3·4	26
5	—	—	·1	·9	1·0	1·0	1·0	1·0	1·0	·8	1·0	·9	1·0	1·0	·5	...	—	—	**11·2**	**84**
6	—	—	...	·1	...	·9	·9	·5	·6	·9	·9	1·0	1·0	1·0	·8	...	—	—	8·6	64
7	—	—	...	·3	·7	·7	·6	1·0	1·0	1·0	1·0	1·0	1·0	·6	...	...	—	—	8·9	66
8	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...
9	—	—	...	...	...	...	·3	1·0	1·0	1·0	1·0	·9	·6	·4	·2	...	—	—	6·4	47
10	—	—	...	·3	·4	·6	1·0	·7	·1	·7	·7	·3	...	...	...	...	—	—	4·8	35
11	—	—	...	...	...	...	...	·1	·1	...	·1	...	...	...	...	·1	—	—	0·4	3
12	—	—	...	...	...	...	...	...	·5	·3	·1	·1	...	...	...	·2	—	—	1·2	9
13	—	—	·5	1·0	1·0	1·0	·4	·9	·4	·6	·1	·5	·2	...	...	·1	—	—	6·7	48
14	—	—	·3	·3	·1	·1	·2	...	·6	·6	·1	·2	...	...	...	...	—	—	2·5	18
15	—	...	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	—	0·2	1
16	—	...	·2	·2	·3	·3	...	...	...	...	...	...	...	·2	...	...	...	—	1·2	8
17	—	...	·4	·8	·6	·7	·8	·4	·8	·1	...	...	...	...	...	...	...	—	4·6	32
18	—	...	·1	·2	·6	·1	·9	1·0	...	...	...	·9	1·0	1·0	·9	·5	...	—	7·2	50
19	—	...	...	...	...	...	·1	·5	1·0	·6	·5	·2	·5	·4	·7	·2	...	—	4·7	32
20	—	...	·1	·4	·7	·6	·7	·9	·4	·5	·3	...	·1	...	...	...	...	—	4·7	32
21	—	...	...	·2	...	...	...	...	...	·1	·7	·6	...	...	...	...	...	—	1·6	11
22	—	...	·2	·1	·1	·1	·1	...	·2	·1	...	...	·8	·3	·3	·7	...	—	3·0	20
23	—	...	·9	·4	...	...	·1	·3	·1	...	...	...	...	·4	1·0	·5	...	—	3·7	25
24	—	...	...	...	...	...	·3	·7	...	·2	...	...	...	·2	...	...	...	—	1·4	9
25	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...
26	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...
27	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...
28	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·1	—	0·2	1
29	—	...	·8	1·0	1·0	1·0	1·0	·8	·1	·2	...	·2	1·0	1·0	1·0	·5	...	—	9·6	63
30	—	...	...	...	...	·2	·1	...	...	...	·8	·2	...	...	...	...	...	—	1·3	9
Sum.	—	...	3·6	6·9	6·8	8·1	9·2	**11·0**	9·1	9·2	9·4	9·3	8·7	6·9	5·6	2·9	0·1	—	106·8	—
Mean	—	...	·12	·23	·23	·27	·31	**·37**	·30	·31	·31	·31	·29	·23	·19	·10	·00	—	3·56	25
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.

For periods of sixty minutes, between the exact hours of Local Apparent Time.

131. Aberdeen : h_s (height of recorder above ground) = 20·7 metres. **May, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	...	...	...	...	·2	·8	·8	·8	·9	·6	·4	·6	·9	·6	·2	...	—	6·8	44
2	—	·3	1·0	1·0	·4	...	·1	·1	·5	·5	·4	·2	...	·8	·3	...	...	—	5·6	36
3	—	·2	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·5	—	**14·7**	**95**
4	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...
5	—	...	·8	·7	·9	1·0	·9	1·0	·8	1·0	·3	·3	·5	·1	·4	...	...	—	8·7	55
6	—	...	...	...	·2	·9	1·0	·5	·9	·7	·5	·9	·4	·8	·2	...	...	—	7·0	44
7	—	...	...	...	...	·3	·9	1·0	·4	·1	...	...	·3	...	·1	...	...	—	3·1	20
8	—	...	...	...	...	...	...	...	·8	·9	1·0	1·0	1·0	1·0	1·0	·3	...	—	7·0	44
9	—	...	·7	·9	·9	·3	·8	1·0	1·0	1·0	1·0	·6	·8	...	...	...	...	—	9·0	56
10	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...
11	—	...	...	...	...	...	·8	1·0	1·0	1·0	1·0	1·0	·6	...	...	·4	...	...	6·8	42
12	...	·1	...	...	...	·2	·1	·4	·4	·5	·3	·2	·6	·2	·9	·4	...	...	4·3	27
13	...	...	...	...	...	...	·2	·1	·2	·2	·2	·9	·1	...	...	...	...	...	1·9	12
14	...	...	·7	·1	1·0	·9	·5	·4	·4	·5	1·0	·7	·4	·5	·7	·9	·4	...	9·1	56
15	...	·3	·6	·4	·8	·5	·9	·8	·9	·5	·1	·3	·3	·9	·8	1·0	·8	...	9·9	60
16	...	...	...	...	·2	·5	·9	·3	·9	·8	·8	·3	...	...	·4	·7	·3	...	6·1	37
17	...	...	...	...	...	...	·6	...	...	...	·1	·5	1·0	1·0	1·0	·5	...	...	4·7	28
18	...	·3	·4	...	...	...	·4	·4	·3	...	...	·2	·1	·4	·3	...	...	...	2·8	17
19	...	...	...	...	·3	·9	·1	·1	·5	·8	·9	1·0	·9	·8	·5	·2	...	...	7·0	42
20	...	...	...	...	...	...	...	·2	...	·1	·1	...	...	...	...	·3	·1	...	0·8	5
21	...	·2	·7	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·9	·5	·9	·2	...	13·4	80
22	...	...	...	...	...	·5	·1	...	...	...	...	...	·6	·2	...	...	...	...	1·4	8
23	...	...	...	...	...	...	·2	·8	1·0	1·0	·9	·9	·9	·5	...	...	...	...	6·2	37
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	·1	·8	·9	·4	·8	·9	·5	·6	·9	1·0	1·0	1·0	1·0	1·0	1·0	·7	...	12·6	74
26	...	...	·5	·5	·9	1·0	1·0	1·0	·8	·4	·7	·7	·8	·2	·6	·3	·3	...	9·7	57
27	...	...	·8	·6	·1	·7	·7	·9	1·0	·9	·4	·7	1·0	1·0	1·0	1·0	·4	...	11·2	65
28	...	...	·3	·4	·3	·5	·9	·8	·9	·4	...	...	·1	...	...	...	...	...	4·6	27
29	...	...	·1	1·0	1·0	1·0	1·0	1·0	·8	...	...	...	...	...	...	...	...	...	5·9	34
30	...	...	...	...	...	...	...	...	...	·2	1·0	1·0	1·0	1·0	1·0	1·0	·3	...	6·5	38
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	...	1·5	8·4	8·5	9·4	12·2	15·8	15·1	**16·9**	15·3	14·3	14·8	15·0	13·2	12·3	10·1	4·0	...	186·8	—
Mean.	...	·05	·27	·27	·30	·39	·51	·49	**·55**	·49	·46	·48	·48	·43	·40	·33	·13	...	6·03	37

132. Aberdeen : h_s = 20·7 metres. **June, 1931.**

	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	·2	·4	·2	·3	...	...	...	...	...	...	...	...	1·1	6
3	...	·9	1·0	1·0	·7	·5	1·0	·9	1·0	1·0	1·0	1·0	1·0	·9	·1	·5	...	...	12·5	72
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	·5	·3	·4	·4	·3	·3	·2	·5	·5	...	·2	...	·1	...	3·7	21
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	·3	1·0	1·0	1·0	1·0	·9	·7	1·0	·3	...	...	...	...	7·2	41
8	...	...	...	...	...	...	...	...	...	·1	·5	·2	...	...	...	...	...	...	0·8	5
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	·4	6	·5	...	...	...	...	...	...	1·5	8
11	...	...	...	...	·7	·7	·1	...	...	...	...	...	·2	·1	1·0	·5	·9	...	4·2	24
12	...	...	·1	·1	...	·2	·2	1·0	1·0	·6	...	·3	·3	·2	...	...	...	...	4·0	23
13	...	·2	·6	·6	·6	·5	·5	·9	1·0	1·0	·9	...	...	...	...	...	...	...	6·8	38
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	·4	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·4	·3	...	...	...	8·1	46
16	...	...	...	...	...	...	...	·8	·9	1·0	1·0	·8	·3	·5	·8	·2	·6	·3	7·2	40
17	...	·5	·8	·9	·9	·7	·1	...	...	...	...	...	...	...	...	·9	·2	...	5·0	28
18	...	...	·8	1·0	1·0	·3	·6	·7	·5	·1	·3	·2	·2	·1	...	·4	...	...	6·2	35
19	...	...	...	...	...	...	·8	·1	...	...	...	...	...	...	...	...	...	...	0·9	5
20	...	...	...	...	...	...	·1	·7	·9	1·0	·9	·1	...	...	·2	...	...	...	3·9	22
21	...	...	...	·5	·9	1·0	·3	...	...	...	...	·1	·1	·4	·1	·3	·7	·1	4·5	25
22	...	...	·9	1·0	·9	·5	1·0	·9	·8	·9	·8	·1	·8	·6	·8	·5	·3	...	10·8	61
23	...	...	...	...	·4	...	...	...	...	...	...	...	·1	...	...	·1	...	...	0·6	3
24	...	·6	1·0	1·0	·5	·1	·1	...	...	·1	·3	·3	·5	1·0	1·0	·3	...	...	6·8	38
25	·3	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	...	**16·3**	**92**
26	...	...	...	...	·2	·3	·9	·8	·4	·4	...	...	...	...	...	...	...	...	3·0	17
27	...	·8	1·0	·8	·1	·2	1·0	1·0	·6	·9	1·0	·8	·2	·8	·9	...	·1	...	10·2	57
28	·4	1·0	·9	1·0	1·0	1·0	·6	·3	1·0	·9	1·0	·9	·2	·6	·8	·5	·3	·1	12·5	70
29	·1	·5	·9	·8	·2	1·0	·9	·8	1·0	1·0	·8	·2	·2	·2	...	...	...	...	8·6	48
30	...	...	...	...	·3	·6	·3	·7	·8	·9	·7	·6	...	·4	·7	·2	·1	...	6·3	35
Sum.	0·8	5·5	9·0	9·7	9·9	9·6	12·1	13·4	13·4	**13·9**	12·9	9·3	7·6	7·5	7·9	5·4	4·3	0·5	152·7	—
Mean	·03	·18	·30	·32	·33	·32	·40	·45	·45	**·46**	·43	·31	·25	·25	·26	·18	·14	·02	5·09	29
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.

For periods of sixty minutes, between the exact hours of Local Apparent Time.

133. Aberdeen : h_s (height of recorder above ground) = 20·7 metres. **July, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	...	...	...	...	...	·1	·3	·3	·4	·7	·3	...	...	...	...	...	...	...	2·1	12
2	...	...	...	...	...	·2	·1	·6	...	...	...	...	·1	...	...	...	...	...	1·0	6
3	...	·8	·3	·6	·3	·3	...	...	...	...	·2	·1	·2	...	...	...	...	...	2·8	16
4	...	...	...	...	·1	1·0	1·0	·9	·9	·9	·7	...	...	...	·3	·8	1·0	·2	7·8	44
5	...	...	...	·6	·2	·5	·1	·4	·7	1·0	1·0	1·0	1·0	·9	·2	·2	·3	...	8·1	46
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	·4	·9	1·0	1·0	·9	...	4·2	24
9	...	·1	·5	·9	...	...	...	·3	1·0	1·0	1·0	1·0	1·0	·9	·2	...	...	...	7·9	45
10	...	...	...	...	...	...	...	...	...	...	...	·7	·7	·1	...	...	...	...	1·5	9
11	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	0·1	1
12	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	0·1	1
13	...	...	·4	·8	·1	...	...	...	...	...	·1	·1	·2	·3	·5	·3	·2	...	3·0	17
14	...	·9	·8	·9	1·0	·8	·1	·3	·8	1·0	1·0	1·0	·6	...	...	...	...	...	**9·2**	**53**
15	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·4	·7	...	...	1·2	7
16	...	...	...	...	...	...	·1	...	...	...	·1	·1	·1	...	...	...	...	...	0·4	2
17	...	...	...	...	...	...	...	...	·7	·4	·1	...	...	...	...	...	...	...	1·2	7
18	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	·2	...	...	0·3	2
19	...	...	...	...	...	...	...	...	...	...	·2	·9	·6	...	...	...	...	...	1·7	10
20	...	...	·3	·4	·5	·3	...	...	...	·2	·3	·9	·9	1·0	1·0	1·0	1·0	·1	7·9	46
21	...	·9	1·0	1·0	1·0	1·0	1·0	·8	·5	·2	·4	...	...	·1	...	...	...	...	7·9	47
22	...	...	...	...	·2	·5	·9	1·0	·7	·2	·1	...	·1	·2	...	...	...	...	3·9	23
23	...	·8	1·0	1·0	1·0	1·0	1·0	1·0	·7	...	·3	·1	...	...	...	...	...	...	7·9	47
24	...	...	...	...	...	·1	...	·1	...	...	...	...	...	...	...	...	...	...	0·2	1
25	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	0·1	1
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	·1	·7	...	·1	...	...	...	...	...	...	0·9	5
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	·5	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	0·6	4
30	...	...	...	...	·1	·2	...	...	·1	·3	...	...	...	...	...	...	...	...	0·7	4
31	...	...	...	...	...	...	...	·1	·1	...	...	...	...	...	...	...	...	...	0·2	1
Sum.	...	3·5	4·3	**6·7**	4·5	6·2	4·7	5·8	**6·7**	6·6	5·9	6·1	5·9	4·5	3·6	4·2	3·4	0·3	82·9	—
Mean	...	·11	·14	**·22**	·15	·20	·15	·19	**·22**	·21	·19	·20	·19	·15	·12	·14	·11	·01	2·67	16

134. Aberdeen : h_s = 20·7 metres. **August, 1931.**

	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	...	...	...	...	·1	·5	·7	...	...	·3	·9	·9	·8	·8	·7	·2	...	...	5·9	36
2	...	...	...	...	...	...	...	...	...	...	·1	·6	1·0	1·0	·9	...	...	...	3·6	22
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...
4	—	...	...	...	...	...	...	...	...	·3	·1	...	...	...	...	...	...	—	0·4	3
5	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...
6	—	...	...	...	...	...	...	...	...	·1	·8	·9	1·0	·9	·1	...	...	—	3·8	24
7	—	...	·3	·2	·1	·9	·5	·4	·9	·4	·4	·2	·8	1·0	1·0	·9	...	—	8·0	51
8	—	...	·1	...	...	·1	·3	·9	·2	·5	·5	·8	·8	·7	·4	·6	...	—	5·9	37
9	—	...	...	·2	...	·1	·1	...	...	·9	1·0	·9	·6	·5	...	...	...	—	4·3	27
10	—	...	...	·3	1·0	·8	·5	·5	·3	·1	1·0	·9	·3	...	·1	...	·2	—	6·0	38
11	—	·3	·7	·6	...	·1	·1	·3	·3	...	...	...	·1	...	...	...	...	—	2·5	16
12	—	...	...	...	·1	·4	·3	·2	·1	...	...	...	...	...	...	...	...	—	1·1	7
13	—	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	—	0·1	1
14	—	...	...	...	...	...	...	·7	·9	1·0	1·0	1·0	1·0	1·0	1·0	·4	...	—	8·0	52
15	—	...	...	·5	·5	·6	·9	·9	1·0	1·0	1·0	·9	...	...	...	...	·1	—	7·4	48
16	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...
17	—	...	...	...	...	...	...	...	...	...	·2	1·0	·2	·2	·2	...	...	—	1·8	12
18	—	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	—	0·1	1
19	—	...	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	—	0·2	1
20	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...
21	—	...	...	...	...	...	...	...	·1	·1	·3	...	...	·1	·4	·2	...	—	1·2	8
22	—	...	·2	·6	·5	·9	·3	·4	·3	·4	·4	·7	·9	·2	...	...	...	—	5·8	39
23	—	...	·4	·8	·9	·4	·7	·5	·7	·5	·2	·7	·6	·6	·5	·2	...	—	7·7	53
24	—	...	...	·1	·4	...	·1	·2	...	...	·1	...	·4	·5	...	...	...	—	1·8	12
25	—	...	·6	·8	·7	·9	·9	·9	...	·3	·8	·9	·7	·1	·2	...	...	—	7·8	54
26	—	...	·3	·5	·8	1·0	1·0	1·0	·9	1·0	1·0	1·0	1·0	1·0	1·0	·7	...	—	**12·2**	**85**
27	—	...	·5	1·0	1·0	1·0	1·0	1·0	1·0	·8	·6	·6	·2	·1	...	...	...	—	8·8	62
28	—	...	...	...	...	...	·1	·7	·2	·2	1·0	·8	·3	·4	·6	·1	...	—	4·4	31
29	—	...	...	·1	·6	·9	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·6	...	—	11·2	79
30	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·6	—	—	0·6	4
31	—	—	...	...	...	...	·5	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·3	—	—	8·8	63
Sum.	—	0·3	3·1	5·7	6·7	8·6	9·0	10·6	9·1	9·9	13·5	**14·8**	12·8	11·1	9·1	4·8	0·3	—	129·4	—
Mean	—	·01	·10	·18	·22	·28	·29	·34	·29	·32	**·44**	**·48**	·41	·36	·29	·15	·01	—	4·17	28
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.

For periods of sixty minutes, between the exact hours of Local Apparent Time.

135. Aberdeen : h_s (height of recorder above ground) = 20·7 metres. **September, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...
2	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...
3	—	—	...	...	...	...	...	·1	·1	...	·6	...	·4	·6	·3	...	—	—	2·1	15
4	—	—	...	...	·4	·8	·5	·9	1·0	·7	·8	·6	·9	·5	·6	·2	—	—	7·9	58
5	—	—	...	...	...	...	·1	·5	·7	·5	·9	·7	1·0	·7	·7	...	—	—	5·8	43
6	—	—	·1	·8	·7	·7	·9	·8	·6	1·0	·9	·7	·4	·7	·3	·1	—	—	8·7	64
7	—	—	...	...	·1	·3	...	·1	...	·5	·4	·4	·4	·1	·1	...	—	—	2·4	18
8	—	—	...	...	·7	·4	·9	·2	·7	·8	·3	·1	...	...	...	...	—	—	4·1	31
9	—	—	...	·8	·9	1·0	·5	·7	·7	·7	·5	·8	·9	1·0	·7	...	—	—	**9·2**	69
10	—	—	...	·3	1·0	1·0	·9	·3	·1	·2	·9	·9	·1	...	·1	...	—	—	5·8	44
11	—	—	...	...	·1	·9	·1	·4	·6	·6	...	·5	...	·1	...	...	—	—	3·3	25
12	—	—	...	...	...	·7	·7	·7	·7	·9	·5	·9	·9	·9	·8	...	—	—	7·7	59
13	—	—	...	·5	·9	1·0	1·0	1·0	·8	·7	·4	·1	...	...	...	...	—	—	6·4	49
14	—	—	...	...	...	...	...	·9	1·0	1·0	1·0	1·0	1·0	1·0	·3	...	—	—	7·2	56
15	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...
16	—	—	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	—	—	0·1	1
17	—	—	...	...	1·0	1·0	1·0	·3	·3	·1	...	...	·3	·1	...	...	—	—	4·1	32
18	—	—	...	·3	1·0	·4	...	...	...	·1	...	...	·4	·2	...	...	—	—	2·4	19
19	—	—	...	...	·9	1·0	1·0	·7	·8	·9	·9	1·0	·6	·8	·3	...	—	—	8·9	**71**
20	—	—	...	...	·5	...	·3	·5	·1	...	·7	·3	·2	...	...	...	—	—	2·6	21
21	—	—	...	...	·4	...	·2	·3	·6	·7	1·0	·9	·7	...	...	...	—	—	4·8	39
22	—	—	...	...	...	...	...	...	...	·3	·4	1·0	·8	·5	·1	...	—	—	3·1	25
23	—	—	...	...	·2	...	...	...	...	·3	·4	·4	...	...	...	...	—	—	1·3	11
24	—	—	...	...	...	·1	...	...	...	...	...	...	·1	·8	·4	—	—	—	1·4	12
25	—	—	—	...	...	...	·2	·9	·8	·9	1·0	1·0	1·0	1·0	·6	—	—	—	7·4	62
26	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
27	—	—	—	...	...	...	...	...	...	...	...	...	...	·1	...	—	—	—	0·1	1
28	—	—	—	...	...	...	...	...	...	...	·2	...	...	...	...	—	—	—	0·2	2
29	—	—	—	...	...	...	...	·1	·8	1·0	1·0	·2	...	...	...	—	—	—	3·1	26
30	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
Sum.	—	—	0·1	2·7	8·8	9·3	8·4	9·4	10·4	11·9	**12·8**	11·5	10·1	9·1	5·3	0·3	—	—	110·1	—
Mean	—	—	·00	·09	·29	·31	·28	·31	·35	·40	**·43**	·38	·34	·30	·18	·01	—	—	3·67	29

136. Aberdeen : h_s = 20·7 metres. **October, 1931.**

Day	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	—	—	·2	1·0	·7	...	·1	...	...	...	...	...	...	...	—	—	—	2·0	17
2	—	—	—	...	...	...	...	·4	1·0	·9	·7	·6	·8	·6	·3	—	—	—	5·3	46
3	—	—	—	...	·8	1·0	1·0	1·0	·7	·3	·6	·6	·9	·9	...	—	—	—	**7·8**	68
4	—	—	—	...	...	·3	...	...	...	·7	1·0	·2	·1	·1	·1	—	—	—	2·5	22
5	—	—	—	...	·4	1·0	·9	·8	·2	·4	·5	·9	1·0	·6	...	—	—	—	6·7	60
6	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
7	—	—	—	...	·5	·4	·7	·4	·3	·9	·8	·6	·8	·4	...	—	—	—	5·8	52
8	—	—	—	·1	1·0	·9	·8	·9	1·0	1·0	·3	...	...	...	...	—	—	—	6·0	55
9	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
10	—	—	—	...	·7	1·0	1·0	1·0	1·0	·4	·5	·1	·4	·1	...	—	—	—	6·2	57
11	—	—	—	...	...	·1	...	...	...	...	...	·1	...	...	...	—	—	—	0·2	2
12	—	—	—	...	...	...	...	...	·3	·2	...	...	...	...	...	—	—	—	0·5	5
13	—	—	—	...	·7	1·0	·6	·1	·1	·8	·5	·4	...	·5	...	—	—	—	4·7	44
14	—	—	—	...	...	...	...	·8	·3	...	·2	·4	...	...	...	—	—	—	1·7	16
15	—	—	—	...	...	...	...	·4	1·0	1·0	1·0	1·0	1·0	·1	...	—	—	—	5·5	53
16	—	—	—	...	...	·1	·9	1·0	·8	·6	·8	1·0	1·0	·3	...	—	—	—	6·5	63
17	—	—	—	...	...	...	...	...	·8	·2	...	·1	·4	...	...	—	—	—	1·5	15
18	—	—	—	...	...	...	...	·2	·2	·4	·9	1·0	1·0	·5	...	—	—	—	4·2	41
19	—	—	—	...	...	...	·2	·3	·1	·1	...	...	...	...	—	—	—	—	0·7	7
20	—	—	—	—	...	·3	·4	·2	·4	·5	·8	·8	·4	·1	—	—	—	—	3·9	4
21	—	—	—	—	...	·1	·5	...	·5	·3	·5	...	...	...	—	—	—	—	1·9	2
22	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
23	—	—	—	—	...	...	...	...	·3	·9	·2	·1	·8	·1	—	—	—	—	2·4	24
24	—	—	—	—	...	·4	1·0	·8	1·0	·3	1·0	·4	·6	...	—	—	—	—	5·5	57
25	—	—	—	—	·1	·7	1·0	·6	·4	1·0	1·0	1·0	1·0	·4	—	—	—	—	7·2	**75**
26	—	—	—	—	...	·1	·2	·9	1·0	·9	·9	·1	...	...	—	—	—	—	4·1	43
27	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
28	—	—	—	—	...	·5	·6	·9	·3	·9	·9	1·0	·6	...	—	—	—	—	5·7	61
29	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
30	—	—	—	—	...	·6	·8	·8	1·0	·8	·7	·4	·4	...	—	—	—	—	5·5	60
31	—	—	—	—	...	...	...	...	...	...	...	·1	·1	...	—	—	—	—	0·2	2
Sum.	—	—	—	0·3	5·2	9·2	10·6	11·6	12·7	13·5	**13·8**	10·9	11·3	4·7	0·4	—	—	—	104·2	—
Mean	—	—	—	·01	·17	·30	·34	·37	·41	·44	**·45**	·35	·36	·15	·01	—	—	—	3·36	33
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.

For periods of sixty minutes, between the exact hours of Local Apparent Time.

137. Aberdeen : h_s (height of recorder above ground) = 20·7 metres. **November, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	—	—	—	...	...	...	·1	·1	·1	·2	...	...	...	—	—	—	—	0·5	5
2	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
3	—	—	—	—	...	...	...	...	·1	...	...	...	...	...	—	—	—	—	0·1	1
4	—	—	—	—	...	·2	...	·1	·8	·7	·7	1·0	·8	...	—	—	—	—	4·3	48
5	—	—	—	—	...	·5	·6	·8	·7	·4	·1	·2	...	...	—	—	—	—	3·3	37
6	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
7	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
8	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
9	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
10	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
11	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
12	—	—	—	—	...	...	...	...	·6	·7	·4	·3	...	...	—	—	—	—	2·0	24
13	—	—	—	—	...	...	...	·4	·9	...	·2	·8	...	...	—	—	—	—	2·3	28
14	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
15	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
16	—	—	—	—	—	...	·1	·9	·7	·2	·1	...	...	—	—	—	—	—	2·0	25
17	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
18	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
19	—	—	—	—	—	...	·7	·9	1·0	1·0	1·0	·8	...	—	—	—	—	—	5·4	69
20	—	—	—	—	—	...	...	...	...	·1	...	...	...	—	—	—	—	—	0·1	1
21	—	—	—	—	—	...	1·0	1·0	1·0	1·0	·8	1·0	·2	—	—	—	—	—	**6·0**	**78**
22	—	—	—	—	—	...	·8	1·0	1·0	1·0	·6	...	...	—	—	—	—	—	4·4	58
23	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
24	—	—	—	—	—	...	·6	1·0	·8	·8	·9	·4	·1	—	—	—	—	—	4·6	61
25	—	—	—	—	—	...	·7	·5	·6	·2	·5	...	...	—	—	—	—	—	2·5	34
26	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
27	—	—	—	—	—	...	...	·8	·9	·9	1·0	·4	...	—	—	—	—	—	4·0	55
28	—	—	—	—	—	...	...	...	·1	·5	...	...	...	—	—	—	—	—	0·6	8
29	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
30	—	—	—	—	—	...	...	·7	1·0	1·0	1·0	1·0	...	—	—	—	—	—	4·7	65
Sum.	—	—	—	—	...	0·7	4·5	8·2	**10·3**	8·6	7·5	5·9	1·1	...	—	—	—	—	46·8	—
Mean	—	—	—	—	...	·02	·15	·27	**·34**	·29	·25	·20	·04	...	—	—	—	—	1·56	19

138. Aberdeen : h_s = 20·7 metres. **December and Year, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	—	—	—	—	...	...	·1	·8	·4	...	...	...	—	—	—	—	—	1·3	18
2	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
3	—	—	—	—	—	...	...	·2	·5	·8	...	·1	...	—	—	—	—	—	1·6	23
4	—	—	—	—	—	...	·7	·6	·5	·3	·2	·1	...	—	—	—	—	—	2·4	34
5	—	—	—	—	—	...	...	...	...	...	·3	...	...	—	—	—	—	—	0·3	4
6	—	—	—	—	—	...	...	·4	1·0	·7	·5	·8	...	—	—	—	—	—	3·4	49
7	—	—	—	—	—	...	...	·9	·3	·6	...	...	...	—	—	—	—	—	1·8	26
8	—	—	—	—	—	...	·3	1·0	1·0	1·0	1·0	·7	...	—	—	—	—	—	5·0	74
9	—	—	—	—	—	...	·2	·5	·3	·2	·1	...	...	—	—	—	—	—	1·3	19
10	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
11	—	—	—	—	—	...	·6	1·0	1·0	1·0	1·0	·8	...	—	—	—	—	—	**5·4**	**81**
12	—	—	—	—	—	...	...	...	...	...	...	·2	...	—	—	—	—	—	0·2	3
13	—	—	—	—	—	...	·5	·3	·6	1·0	1·0	·3	...	—	—	—	—	—	3·7	55
14	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
15	—	—	—	—	—	...	·3	·8	·6	·4	...	...	...	—	—	—	—	—	2·1	32
16	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
17	—	—	—	—	—	...	...	...	...	·5	...	...	...	—	—	—	—	—	0·5	8
18	—	—	—	—	—	...	...	·1	·3	1·0	·8	...	...	—	—	—	—	—	2·2	33
19	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
20	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
21	—	—	—	—	—	...	...	...	·2	·4	·3	...	...	—	—	—	—	—	0·9	14
22	—	—	—	—	—	...	...	...	·4	1·0	·5	...	...	—	—	—	—	—	1·9	29
23	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
24	—	—	—	—	—	...	...	...	1·0	1·0	·9	·4	...	—	—	—	—	—	3·3	50
25	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
26	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
27	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
28	—	—	—	—	—	...	·2	·6	·4	·2	·2	·6	...	—	—	—	—	—	2·2	33
29	—	—	—	—	—	...	...	...	·6	·5	·5	...	...	—	—	—	—	—	1·6	24
30	—	—	—	—	—	...	·1	·9	·7	·7	1·0	·7	...	—	—	—	—	—	4·1	62
31	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
Sum.	—	—	—	—	—	...	2·9	7·4	10·2	**11·7**	8·3	4·7	...	—	—	—	—	—	45·2	—
Mean	—	—	—	—	—	...	·01	·24	·33	**·38**	·27	·15	...	—	—	—	—	—	1·46	22
Annual Totals	0·8	10·8	28·5	41·3	57·8	80·3	103·4	126·5	135·0	**136·3**	134·1	119·9	89·9	65·8	45·4	27·7	12·1	0·8	1216·4	—
Annual Mean	·00	·03	·08	·11	·16	·22	·28	·35	·37	**·37**	·37	·33	·25	·18	·12	·08	·03	·00	3·33	27
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.

Direction expressed in degrees from North ($E = 90°$, $S = 180°$, $W = 270°$, $N = 360°$): Speed in metres per second.

139. Aberdeen : Robinson anemograph from July, 1930. H_a (height of anemograph above M.S.L.) = Height of ground above

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	290	4·3	290	3·6	290	4·0	280	4·5	290	5·1	290	4·7	280	4·1	290	3·6	290	5·1	280	6·1	280	5·7	280	6·1
2	260	3·6	270	5·1	270	4·7	270	4·7	270	4·7	260	4·7	240	3·3	240	3·3	260	3·3	240	3·3	230	3·3	240	2·2
3	—	1·4	—	1·1	—	1·3	—	0·8	—	1·4	—	1·3	—	1·4	—	1·1	—	1·1	270	2·6	—	1·1	—	1·3
4	290	2·9	300	3·3	300	3·3	300	3·6	290	4·7	290	4·0	290	4·3	290	4·0	290	4·3	290	5·1	290	5·1	300	5·2
5	300	4·3	300	3·6	290	4·3	300	3·3	310	3·0	300	2·6	300	3·3	310	3·3	310	3·3	310	3·6	300	5·2	300	4·6
6	300	4·9	300	4·3	300	4·9	290	4·3	290	4·3	300	3·9	290	4·0	270	2·1	270	2·1	280	1·6	290	3·6	290	2·2
7	—	1·3	280	1·6	—	1·3	—	0·8	—	0·8	280	1·6	—	0·8	—	1·4	230	1·6	—	1·4	—	1·1	—	1·4
8	—	1·3	—	0·4	—	0·4	210	2·5	220	3·6	220	2·9	230	3·3	230	3·6	230	2·9	230	2·2	210	3·3	200	5·1
9	290	4·3	260	3·3	290	5·4	290	7·3	290	7·3	290	5·1	280	3·7	270	3·0	280	4·1	290	5·1	280	2·5	290	4·7
10	240	1·8	270	3·0	270	3·0	260	2·9	260	3·3	260	2·5	240	2·2	240	1·8	250	3·6	250	2·9	270	4·3	260	4·3
11	180	2·7	230	2·9	—	0·8	—	1·0	160	1·9	—	1·2	270	4·7	220	2·5	—	1·2	240	4·7	230	5·1	230	2·5
12	260	2·5	230	2·5	270	3·0	—	1·4	230	1·8	—	1·4	180	1·7	270	3·0	240	1·8	—	0·8	—	1·3	280	2·5
13	350	6·9	350	6·0	340	5·2	340	5·2	340	5·2	340	5·2	340	5·5	350	5·5	340	6·7	330	4·7	320	5·4	320	5·1
14	300	3·3	310	3·9	290	3·6	290	3·6	280	2·9	260	1·8	250	1·8	230	3·3	220	2·9	210	3·3	210	3·7	200	3·4
15	240	2·2	230	1·8	250	4·0	270	5·6	270	4·3	280	3·3	290	4·3	290	3·3	300	5·9	—	1·1	280	1·6	—	1·4
16	260	7·3	260	7·9	270	9·4	270	9·0	270	6·0	270	5·6	270	7·3	270	7·7	270	6·0	270	7·3	260	6·8	250	5·1
17	280	6·5	280	6·5	300	7·2	300	9·5	300	7·5	300	8·5	300	8·9	300	9·2	300	10·2	300	10·5	300	11·8	310	11·1
18	310	7·9	300	8·2	310	6·6	300	7·2	300	5·6	310	4·9	300	5·6	310	5·9	300	4·6	310	5·6	300	4·6	300	3·9
19	190	2·2	—	1·4	—	0·9	—	1·1	—	0·8	—	1·3	290	2·2	300	1·6	310	2·3	300	3·0	290	3·3	290	3·6
20	180	3·1	180	3·1	210	2·0	—	1·3	170	3·5	170	4·0	190	4·6	200	3·4	210	2·9	250	2·2	260	2·2	290	3·6
21	—	0·8	190	2·2	200	2·1	200	3·0	200	3·9	190	5·5	200	3·9	200	3·9	180	2·7	200	4·7	200	4·7	190	6·0
22	200	3·0	200	3·0	200	2·1	200	1·7	220	2·2	220	2·5	230	1·8	240	2·2	—	1·4	—	0·8	—	1·3	230	2·2
23	180	10·9	180	12·3	180	9·6	190	9·6	210	8·6	220	5·4	200	6·4	200	7·7	220	6·5	210	5·4	210	9·0	220	7·6
24	290	2·9	290	2·9	290	4·0	290	5·7	290	7·9	290	9·8	290	9·8	290	7·3	290	7·6	300	9·5	300	9·8	290	10·4
25	270	7·3	270	5·1	270	5·1	270	7·7	280	8·6	280	7·7	280	8·3	270	7·7	280	4·9	280	7·4	270	8·6	270	8·1
26	290	3·6	290	4·0	280	4·5	290	5·4	280	5·4	270	3·9	260	2·5	280	3·3	260	4·0	240	3·3	250	3·3	260	3·6
27	300	6·2	290	5·7	300	4·3	300	3·3	300	3·0	300	3·3	290	3·6	290	3·3	280	2·5	290	2·9	270	3·0	260	1·8
28	150	5·1	140	4·5	120	4·7	110	3·6	100	2·9	100	6·1	90	7·6	80	7·3	70	5·9	60	*5·3*	80	*4·2*	50	*4·3*
29	90	*5·1*	90	*5·3*	140	*3·1*	—	*0·5*	—	*0·5*	80	*5·0*	90	*5·6*	70	*5·8*	70	4·7	90	7·9	70	5·5	80	5·4
30	290	4·7	290	4·0	290	4·0	290	3·6	290	4·7	290	3·3	290	3·6	300	2·6	300	2·0	300	2·6	300	3·6	290	2·2
31	220	2·5	210	2·9	210	2·9	200	3·9	190	6·4	180	6·1	190	6·9	190	7·3	180	8·8	180	8·8	180	12·3	180	12·3
Mean	—	4·1	—	4·0	—	3·9	—	4·1	—	4·3	—	4·2	—	4·4	—	4·2	—	4·1	—	4·4	—	4·7	—	4·6

140. Aberdeen : H_a = 13 metres + 23 metres.

	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	160	14·7	160	11·1	160	12·9	170	9·2	170	10·0	170	7·9	180	5·2	240	2·9	250	2·2	—	0·9	290	2·2	300	4·9
2	270	5·1	270	5·1	260	5·1	280	2·5	270	4·3	260	3·3	250	2·9	250	2·9	250	2·9	250	1·8	260	3·3	220	2·9
3	70	7·1	60	5·5	70	4·0	80	2·9	80	4·7	90	4·3	80	2·2	—	1·1	—	1·3	110	4·3	120	3·1	120	4·7
4	170	5·2	180	4·4	190	5·0	210	3·3	200	4·3	200	4·3	200	3·9	190	6·0	200	5·6	200	4·7	200	4·3	190	4·6
5	190	2·2	190	4·6	200	3·9	200	3·9	190	4·2	190	3·2	190	5·5	190	4·6	200	4·3	190	6·0	180	6·5	180	8·3
6	170	10·9	180	10·9	170	10·5	170	10·9	170	8·8	170	8·8	180	8·3	180	8·8	190	6·9	200	5·1	200	4·7	200	4·7
7	—	1·1	—	1·2	230	2·2	—	1·3	210	3·3	210	3·7	200	4·7	190	4·2	180	3·5	200	3·4	190	5·0	210	5·7
8	200	2·6	200	3·0	190	3·6	200	3·0	190	5·0	180	5·2	180	6·5	180	9·2	180	9·2	180	10·9	180	10·5	190	11·1
9	220	4·3	200	2·6	150	3·0	230	4·0	250	1·8	240	2·2	230	4·0	220	3·6	210	4·5	210	2·0	220	2·2	200	4·3
10	250	4·3	320	4·3	—	0·8	150	2·6	—	1·4	—	0·4	—	1·3	210	2·9	210	2·5	220	3·3	210	2·5	260	2·9
11	230	3·3	230	5·7	220	4·0	210	2·9	210	5·4	220	5·4	210	6·5	210	6·5	210	6·5	230	7·9	220	6·5	210	6·5
12	280	9·9	290	11·2	300	10·2	300	13·1	290	13·8	300	11·5	300	10·8	300	11·5	300	11·5	300	11·1	310	11·5	310	10·5
13	300	7·5	300	7·9	320	6·8	320	4·0	330	5·1	330	5·7	330	6·2	340	8·3	340	5·5	320	5·1	320	7·6	310	7·9
14	310	7·5	310	5·6	310	5·6	300	5·6	310	5·6	300	4·9	300	5·6	300	3·9	290	3·6	290	2·5	280	3·7	280	3·3
15	240	4·0	230	2·2	210	2·0	200	2·6	—	1·4	230	5·1	240	4·0	250	4·0	250	3·6	230	2·9	240	2·9	240	4·3
16	260	5·1	250	3·6	270	4·3	270	1·7	270	1·7	—	1·3	—	1·6	270	1·7	—	1·3	—	1·0	—	0·8	360	1·7
17	360	8·3	360	7·5	360	7·9	360	8·3	30	5·6	70	7·4	60	6·8	60	7·3	60	7·9	60	7·6	60	7·3	60	7·6
18	320	4·7	360	4·8	360	4·4	360	3·5	50	1·8	70	3·6	80	3·3	100	2·9	90	2·9	100	4·1	110	2·4	100	2·0
19	200	3·9	200	4·3	200	5·6	200	6·0	200	6·4	210	6·1	210	8·3	200	7·7	200	6·8	210	7·4	210	7·4	220	7·3
20	190	4·2	210	2·9	220	5·1	200	6·0	170	5·2	200	8·1	200	8·1	200	6·4	190	6·0	210	6·1	220	7·9	230	7·3
21	240	6·8	230	8·7	240	6·2	240	7·3	220	5·7	230	5·4	240	5·1	230	4·3	240	4·3	270	7·3	280	7·7	280	7·4
22	240	2·5	220	2·9	230	2·9	220	3·3	230	3·3	220	4·3	210	2·0	230	2·9	—	1·4	200	3·0	210	3·7	210	3·7
23	290	1·8	—	1·4	240	1·8	270	2·6	—	0·8	—	1·3	—	0·4	—	1·1	—	0·8	300	2·6	300	3·9	300	3·3
24	290	1·8	—	1·3	250	1·8	240	2·2	220	2·2	210	3·7	200	5·6	210	5·4	200	4·7	180	4·8	190	6·9	200	6·8
25	300	3·0	290	2·2	—	0·8	—	0·9	—	0·9	—	1·4	180	1·7	—	1·4	230	5·4	230	7·3	240	7·6	240	7·9
26	270	4·3	280	4·1	290	5·4	300	5·9	290	5·1	290	5·1	280	5·7	270	6·4	280	7·4	290	9·8	290	11·6	300	14·1
27	300	3·9	270	6·4	270	1·7	270	1·7	—	0·4	—	1·3	—	1·3	200	2·1	200	1·7	210	2·0	240	3·3	250	3·6
28	290	9·4	290	9·8	300	11·8	300	11·8	300	11·1	300	12·1	290	12·6	290	11·9	290	11·6	300	10·2	300	7·5	280	5·7
Mean	—	5·3	—	5·2	—	5·0	—	4·8	—	4·6	—	4·9	—	5·0	—	5·1	—	4·9	—	5·2	—	5·5	—	5·9
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 13 metres + 23 metres.

January, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
290	5·4	280	6·1	280	4·5	280	5·4	280	6·1	280	6·1	270	5·1	240	2·9	260	3·6	250	2·5	260	3·6	270	3·0	4·7	1
230	2·9	250	2·9	270	3·9	—	1·1	250	2·2	270	5·1	270	5·6	240	3·6	240	2·5	240	2·2	—	0·9	160	1·8	3·4	2
—	0·8	—	1·1	—	0·8	—	0·8	—	1·2	290	1·8	300	2·0	300	2·3	300	2·6	290	3·3	290	1·8	300	4·3	**1·6**	3
300	4·9	300	4·9	300	4·6	300	4·3	300	4·3	310	3·3	300	4·3	290	5·1	300	4·3	300	4·9	310	5·2	300	5·2	4·4	4
300	5·6	320	5·4	310	4·9	290	5·4	300	4·6	300	4·6	300	3·6	310	4·6	300	4·6	300	4·3	300	5·6	290	5·4	4·3	5
280	1·6	—	1·3	270	1·7	270	1·7	270	1·6	—	1·2	—	0·8	—	0·9	280	1·6	—	1·3	280	2·0	280	2·9	2·6	6
210	2·5	210	1·6	190	1·8	200	1·7	210	1·6	200	1·7	210	2·5	210	2·5	200	2·6	200	2·1	200	2·1	—	1·3	1·7	7
210	4·9	220	4·0	210	5·7	230	4·0	280	4·5	290	5·7	290	7·9	300	6·2	300	6·9	290	6·8	290	6·2	290	6·8	4·1	8
290	4·3	300	3·0	290	2·9	290	2·9	290	2·5	280	2·0	280	1·6	270	2·1	280	1·6	280	1·6	230	2·2	240	2·9	3·6	9
260	3·6	260	5·4	260	5·1	230	4·7	260	5·7	270	5·6	270	4·7	250	3·3	220	3·3	230	3·3	220	3·6	170	1·7	3·6	10
290	4·0	310	2·6	300	3·3	290	5·7	250	2·9	250	2·5	250	4·3	250	2·9	260	3·3	250	1·9	—	1·3	200	2·6	2·8	11
290	4·3	300	5·9	300	4·6	320	4·7	350	6·0	350	6·9	350	6·9	360	6·9	10	6·4	350	7·8	350	6·9	350	4·1	3·9	12
340	4·3	320	6·2	320	5·4	310	5·6	310	4·9	320	5·4	300	5·2	310	4·6	300	4·3	300	4·9	300	4·6	300	4·9	5·3	13
230	2·2	250	3·6	250	3·3	260	2·2	240	1·8	—	1·1	270	3·9	270	5·1	250	4·0	220	1·8	270	5·6	260	4·7	3·2	14
230	2·9	230	2·5	240	2·2	230	2·2	190	2·2	—	1·4	190	1·8	230	3·3	260	5·7	270	9·4	260	7·9	260	6·8	3·6	15
260	3·6	260	6·2	270	7·3	270	7·7	290	9·3	300	8·2	290	14·7	290	13·3	290	11·5	290	12·2	290	11·9	290	9·3	8·3	16
310	9·8	310	10·8	300	10·8	310	9·5	310	9·5	300	9·8	300	10·2	300	9·5	300	8·5	300	8·2	300	7·9	300	8·5	9·2	17
290	3·6	290	4·0	280	3·3	270	2·6	270	3·4	250	4·3	260	3·6	240	1·8	210	2·0	200	2·6	210	3·3	190	3·2	4·6	18
300	3·9	300	3·0	300	2·0	310	2·3	300	1·6	—	1·4	290	1·8	290	2·2	300	1·6	—	0·8	150	2·1	160	2·8	2·1	19
290	5·4	290	5·4	270	3·0	220	1·8	260	3·6	270	3·4	280	2·5	270	3·0	290	2·2	—	1·4	—	1·1	—	1·4	2·9	20
200	6·4	190	5·0	200	5·6	210	4·5	190	5·5	190	5·5	190	6·0	200	3·9	210	2·9	200	3·9	200	3·4	200	3·4	4·1	21
220	2·5	210	4·5	190	2·8	210	3·3	200	3·9	190	4·6	200	5·1	200	5·6	170	8·3	180	9·2	170	10·9	180	11·3	3·8	22
220	7·3	210	5·4	190	4·6	180	5·7	190	8·3	180	4·0	170	6·5	160	3·2	170	6·1	180	6·1	170	3·5	—	1·4	6·9	23
300	10·5	290	11·5	290	11·2	290	10·1	290	8·3	280	7·7	270	7·3	280	7·7	280	7·0	280	8·3	280	7·7	280	7·4	7·9	24
280	7·0	280	7·7	280	10·3	290	5·7	280	7·0	280	7·0	290	4·0	280	6·1	290	5·1	290	6·5	290	6·5	280	6·1	6·9	25
290	6·8	290	8·3	300	9·8	300	8·2	300	9·5	290	7·6	290	7·6	290	7·9	300	10·8	300	7·5	300	7·5	310	5·9	6·0	26
210	2·0	180	4·0	180	4·0	190	2·8	200	1·7	200	2·1	190	5·0	180	5·2	170	5·7	160	5·5	150	6·4	160	6·4	3·9	27
50	*4·8*	60	*3·8*	60	*2·5*	80	*3·9*	80	*4·4*	90	*3·0*	—	*0·5*	—	*0·5*	300	*1·6*	—	*1·2*	90	*4·8*	90	*5·7*	*4·1*	28
90	6·5	80	3·6	60	4·3	10	4·3	350	3·2	330	3·3	320	3·6	300	3·3	320	3·3	300	3·6	300	3·3	290	4·0	*4·2*	29
320	1·8	40	1·6	—	1·1	—	1·2	—	1·1	—	0·8	260	1·6	—	1·2	240	1·8	220	1·8	200	2·1	210	2·5	2·5	30
180	11·3	170	13·1	160	16·1	170	15·3	160	16·1	160	16·9	160	17·5	160	13·7	160	14·3	160	16·9	160	16·1	160	16·5	**10·7**	31
—	4·8	—	5·0	—	4·9	—	4·6	—	4·8	—	4·6	—	5·1	—	4·7	—	4·8	—	5·0	—	**5·1**	—	5·0	4·6	

February, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
310	6·6	310	7·2	300	7·5	300	5·9	290	5·4	290	4·0	280	2·0	280	4·9	270	5·1	270	4·7	250	3·3	260	2·2	6·3	1
210	2·9	—	0·9	120	1·9	60	2·5	360	4·0	360	5·7	320	4·0	330	4·0	330	4·7	340	5·2	360	4·8	50	8·2	3·7	2
130	3·1	130	4·7	140	3·7	140	2·9	140	4·1	160	3·2	180	3·5	160	5·5	180	4·8	180	4·8	170	5·2	170	5·2	4·1	3
200	4·7	200	4·6	200	4·7	200	3·9	210	4·5	200	3·9	220	3·6	220	2·9	210	1·6	—	1·3	—	1·0	190	1·8	4·0	4
180	6·9	180	6·1	180	7·5	170	8·8	170	9·2	160	11·9	160	11·1	160	11·5	160	11·9	160	11·9	170	11·3	170	10·9	7·1	5
210	3·3	—	1·1	—	0·4	—	1·2	290	1·6	290	1·8	290	3·3	290	3·3	—	1·4	270	1·7	—	1·4	—	1·4	5·3	6
220	5·1	220	4·7	210	4·7	210	4·0	230	2·5	240	3·6	240	3·3	230	3·6	230	2·9	—	1·3	220	2·2	200	1·7	3·3	7
190	9·2	190	10·1	190	8·3	190	7·3	190	5·0	190	6·0	180	3·5	190	4·2	200	3·4	170	1·7	220	2·9	220	4·3	6·0	8
230	2·2	180	2·7	190	4·2	210	6·1	200	3·9	210	3·7	190	7·3	180	4·8	190	4·2	190	6·9	200	6·8	210	5·7	4·0	9
290	7·3	290	5·7	270	4·7	270	5·1	240	4·0	250	4·3	240	5·7	250	5·4	240	5·1	240	5·4	240	5·1	220	3·6	3·8	10
190	8·7	190	10·1	200	9·8	220	7·3	230	5·7	210	4·5	230	5·4	220	4·3	210	5·7	220	6·2	240	5·7	240	7·6	6·1	11
310	10·5	310	10·5	300	10·5	290	9·4	300	10·8	300	9·2	300	6·9	290	6·8	290	7·6	290	6·8	300	7·2	290	7·9	**10·0**	12
310	9·2	320	10·4	320	8·2	300	6·6	310	5·6	310	4·6	310	5·2	320	6·8	310	7·5	310	6·2	310	7·5	310	6·9	6·8	13
270	2·6	240	2·2	220	2·5	210	2·9	220	3·6	210	5·4	210	6·1	200	6·0	210	6·5	210	8·3	220	6·5	220	5·7	4·8	14
220	4·3	230	4·0	230	5·1	230	4·7	230	3·6	240	4·3	250	3·6	240	4·0	210	2·9	230	2·5	240	3·3	260	6·2	3·6	15
80	2·2	60	2·2	40	3·1	360	1·7	350	1·8	340	3·6	310	3·6	310	3·9	320	5·1	330	5·1	340	7·9	360	7·5	3·0	16
70	8·3	50	6·2	40	6·7	20	4·3	340	2·8	340	3·1	320	4·7	320	4·0	330	4·7	330	4·3	320	4·7	330	5·1	6·2	17
100	2·0	100	2·5	120	1·6	—	1·2	—	1·3	—	1·3	—	1·4	—	1·3	230	1·8	210	2·5	210	2·5	210	3·3	2·7	18
220	7·6	230	5·7	220	5·7	230	6·2	220	5·4	230	4·7	220	5·1	220	4·3	230	3·6	210	4·1	210	4·1	190	4·6	5·7	19
250	6·8	260	5·4	250	7·6	240	6·5	230	5·4	210	4·9	230	6·2	240	6·8	240	7·9	240	7·3	240	7·6	240	7·6	6·3	20
270	6·4	290	9·4	290	8·2	270	5·1	270	3·4	220	3·6	220	3·3	240	4·0	220	3·6	230	2·9	250	2·5	230	3·3	5·6	21
200	3·9	200	2·6	200	3·4	210	3·3	270	6·0	310	4·3	310	2·0	290	2·5	280	1·6	280	2·9	280	2·9	—	1·4	3·1	22
340	2·8	—	1·3	40	1·9	40	1·6	—	0·8	—	0·4	—	0·9	310	2·3	330	4·0	300	3·3	290	2·9	290	3·3	**1·9**	23
210	7·7	210	7·4	200	5·1	210	7·4	200	7·3	190	2·2	230	4·7	220	4·0	250	3·6	270	4·3	290	2·9	290	5·7	4·5	24
240	5·4	260	8·2	270	7·3	280	7·0	270	7·7	280	7·0	330	5·1	340	3·6	—	1·4	—	0·8	280	2·0	280	2·0	4·2	25
300	14·8	300	11·5	300	11·5	310	9·8	320	8·7	310	7·3	320	5·4	300	4·3	300	4·3	300	3·3	300	3·0	300	3·6	7·1	26
250	3·6	250	4·7	230	6·5	230	4·7	220	4·7	200	3·0	220	2·9	230	4·3	230	4·7	250	4·7	280	8·3	300	9·8	3·7	27
260	5·4	270	5·6	290	4·0	240	1·8	—	0·8	10	2·1	—	0·9	—	0·8	300	2·3	320	2·2	300	2·6	330	3·6	6·7	28
—	5·8	—	5·6	—	5·6	—	5·0	—	4·6	—	4·4	—	**4·3**	—	4·4	—	4·4	—	4·4	—	4·6	—	5·0	5·0	
13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day

Direction expressed in degrees from North ($E = 90°$, $S = 180°$, $W = 270°$, $N = 360°$) : Speed in metres per second.

141. Aberdeen : Robinson anemograph from July, 1930. H_a (height of anemograph above M.S.L.) = Height of ground above

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	360	10·0	340	11·8	350	14·7	360	7·9	350	6·9	340	4·3	10	9·0	10	12·3	360	9·6	360	9·6	360	7·5	360	9·2
2	240	4·0	230	3·3	270	3·0	280	2·9	240	2·2	120	2·4	—	1·2	210	2·9	270	4·7	250	4·7	250	4·0	260	3·6
3	300	3·0	300	3·0	290	2·5	280	2·5	290	2·2	290	2·5	290	2·5	300	3·0	300	3·0	300	2·3	300	3·3	300	3·3
4	290	5·1	300	3·6	290	5·1	290	5·1	290	4·7	280	5·4	290	4·3	290	4·3	290	3·6	300	3·9	300	3·9	300	3·0
5	150	7·3	140	6·5	140	7·7	140	7·7	140	6·5	140	7·7	140	7·7	140	9·4	140	8·3	130	7·9	130	8·3	140	7·7
6	110	11·0	110	10·7	110	11·0	120	9·5	110	11·4	110	11·4	100	11·9	100	11·9	80	13·0	90	14·1	110	10·7	90	10·4
7	90	6·8	80	6·8	90	6·5	90	5·7	90	4·3	80	9·4	90	8·7	100	11·1	100	8·6	110	11·0	100	12·3	110	12·2
8	70	5·9	70	6·7	60	5·7	50	5·4	40	5·5	350	2·8	360	2·7	—	1·1	110	2·4	90	4·0	80	5·4	80	5·7
9	70	5·5	70	6·2	60	5·4	70	6·2	70	6·2	70	6·2	60	6·2	60	7·3	50	6·8	70	7·9	40	8·3	50	6·8
10	—	0·8	340	1·9	320	1·6	310	2·0	300	1·6	310	2·0	300	3·0	300	2·3	—	1·0	310	2·3	340	2·8	350	3·2
11	360	9·2	360	6·9	350	7·8	350	8·3	340	7·4	340	7·9	340	7·9	340	8·3	340	9·5	330	8·2	340	8·6	330	7·9
12	310	6·6	300	5·6	300	5·6	300	5·6	300	5·6	300	4·9	300	5·6	300	5·6	290	6·5	310	7·2	300	6·6	310	6·9
13	270	1·7	280	1·6	290	2·9	300	2·0	290	1·8	—	1·2	300	1·6	300	2·6	300	2·3	320	2·9	20	3·9	80	4·0
14	310	3·6	310	2·6	310	3·3	310	3·0	310	3·0	310	3·6	310	3·0	310	3·9	300	3·6	280	2·9	—	1·4	—	1·1
15	300	2·0	300	2·3	280	2·9	290	3·3	300	2·3	290	3·6	290	2·9	290	2·5	290	2·4	290	1·6	—	1·2	120	1·9
16	—	1·4	—	0·4	—	0·0	—	0·4	—	0·4	140	1·6	140	2·5	140	2·9	130	2·8	120	4·0	110	2·8	110	3·6
17	160	9·2	160	9·2	160	9·2	170	7·9	170	7·9	170	8·3	170	8·3	170	9·2	160	9·7	160	10·5	170	8·8	170	8·8
18	180	5·7	180	4·8	170	5·7	170	6·1	170	5·2	170	5·7	170	5·2	170	6·5	170	5·2	170	4·0	180	6·5	180	6·1
19	180	4·0	180	4·0	170	3·5	170	3·5	180	3·1	180	4·0	190	3·6	190	4·2	180	3·5	160	5·0	180	4·0	160	3·2
20	110	1·6	130	2·4	180	2·1	180	4·0	160	4·6	160	4·6	170	4·4	170	4·8	180	4·8	180	4·4	170	4·4	150	4·3
21	—	1·3	—	0·4	—	0·8	—	0·4	—	0·8	—	0·4	—	0·4	—	0·4	—	1·2	130	2·4	150	4·7	160	5·0
22	290	2·2	280	1·6	—	0·4	—	0·8	—	0·8	—	1·2	—	1·4	—	1·1	—	0·8	220	1·8	240	2·2	160	2·2
23	340	3·6	340	2·8	340	3·1	330	3·6	340	2·8	340	3·1	330	3·3	340	3·6	340	4·3	360	6·1	360	6·5	360	6·5
24	350	4·2	350	3·2	340	3·6	320	3·3	320	3·3	300	3·0	320	3·6	310	3·3	330	4·7	360	5·2	30	4·8	50	5·1
25	290	2·5	290	2·4	300	1·6	—	1·0	—	1·0	—	0·3	—	0·3	—	1·0	190	1·8	170	3·5	150	3·9	150	5·6
26	210	2·0	200	2·6	200	2·6	190	2·2	200	2·1	200	3·0	210	3·3	200	3·9	200	4·7	190	5·5	190	6·4	190	6·9
27	250	1·6	260	1·9	270	2·1	270	2·6	270	1·7	270	2·6	—	1·3	270	2·6	—	1·3	—	1·2	—	0·8	200	1·9
28	40	8·3	50	6·8	40	5·2	20	4·3	360	4·4	360	4·4	360	4·0	360	4·8	360	4·8	360	4·8	40	6·7	50	5·4
29	150	3·4	150	3·4	160	2·8	160	4·6	160	3·6	150	4·7	160	5·0	160	5·5	160	6·0	170	6·5	170	6·9	180	6·9
30	160	8·3	150	6·8	160	7·8	180	4·4	170	4·4	190	3·6	160	7·8	160	10·6	160	9·7	160	9·7	160	8·7	160	9·2
31	150	10·3	160	9·7	160	9·2	160	8·7	160	8·7	160	9·7	160	8·3	160	11·1	160	9·2	150	9·7	160	10·1	160	10·5
Mean	—	4·9	—	4·6	—	4·7	—	4·4	—	**4·1**	—	4·4	—	4·5	—	5·3	—	5·2	—	5·6	—	5·7	—	5·7

142. Aberdeen : H_a = 13 metres + 23 metres.

Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	170	7·9	160	8·7	160	7·8	170	6·5	160	7·8	170	6·5	160	8·3	160	9·2	160	9·2	150	9·7	160	10·1	150	10·3
2	140	10·3	140	9·9	140	9·9	140	10·6	140	9·0	130	11·0	130	9·8	130	10·2	130	10·7	130	9·0	140	9·0	140	9·9
3	300	3·0	300	3·3	310	3·3	310	3·3	310	3·3	310	3·9	310	3·6	310	4·3	320	5·7	340	6·2	360	7·5	360	7·5
4	280	1·6	270	1·7	280	2·0	240	2·5	210	2·0	240	2·5	240	3·6	220	3·6	220	4·7	230	4·7	220	5·7	220	7·3
5	270	2·6	290	5·4	290	7·9	290	9·0	290	9·3	290	10·8	290	10·8	290	11·9	290	12·7	300	11·5	300	10·2	310	8·9
6	290	6·2	300	4·3	300	5·6	290	4·3	300	3·6	290	4·3	280	4·5	300	4·7	320	5·7	310	4·9	330	2·5	—	1·1
7	200	2·1	220	1·8	210	2·9	210	1·6	200	1·7	200	1·7	200	1·7	200	2·6	200	3·4	190	4·6	200	5·6	190	6·4
8	180	5·7	180	4·8	190	5·0	180	6·1	180	4·4	190	3·2	200	3·0	190	5·0	180	5·7	170	8·8	170	7·9	180	6·9
9	190	2·8	210	3·7	230	2·5	—	0·9	280	2·0	300	2·6	290	1·8	290	1·8	300	2·3	310	3·0	210	1·6	120	4·3
10	—	0·9	—	1·3	—	0·8	—	1·1	—	0·9	—	1·4	290	2·2	—	0·8	—	0·4	150	2·6	130	2·8	120	2·4
11	210	2·9	210	3·3	200	2·6	220	3·6	220	2·2	230	1·8	230	2·2	230	1·8	220	3·3	200	3·0	190	3·2	160	3·6
12	300	5·2	290	1·8	300	5·2	310	1·6	—	1·3	—	1·4	270	2·6	—	1·4	260	2·2	270	2·6	250	3·3	250	3·3
13	300	4·6	290	4·7	290	6·8	290	5·7	290	5·4	290	4·7	290	5·4	290	6·2	300	5·9	300	8·9	300	7·9	290	8·3
14	300	8·2	300	7·2	300	6·6	300	6·6	300	7·5	300	6·2	300	6·6	300	7·2	290	6·2	300	5·9	300	6·9	310	6·2
15	150	2·6	160	3·6	160	3·6	160	4·6	170	3·5	160	3·2	160	4·2	160	2·2	160	3·2	190	2·8	190	5·0	170	4·8
16	290	7·3	290	8·3	290	6·5	290	6·2	290	5·1	260	2·5	270	2·9	270	5·1	280	7·2	260	5·5	250	4·7	270	6·2
17	250	2·9	270	3·0	290	4·3	290	6·5	300	4·3	290	5·1	300	6·2	310	7·2	310	8·9	330	8·7	340	7·1	340	7·4
18	350	6·9	350	7·3	340	5·2	340	5·5	340	6·7	340	5·9	350	7·8	10	8·1	10	6·0	30	9·4	30	8·6	30	6·8
19	360	6·1	350	5·0	350	6·4	360	5·7	360	6·1	360	6·1	10	6·0	20	4·7	20	6·8	30	9·0	40	10·2	40	11·8
20	360	6·1	360	5·2	350	6·0	340	4·0	340	4·0	340	4·7	350	6·9	360	6·5	30	7·7	40	8·3	40	9·8	30	7·3
21	290	2·5	290	3·3	290	2·2	290	2·5	—	1·4	—	0·4	—	1·4	280	3·2	290	3·6	300	4·6	310	5·7	320	5·6
22	300	2·0	280	2·5	290	3·6	290	3·3	290	3·3	290	4·3	280	3·7	290	3·3	300	3·3	290	4·0	280	3·7	300	3·3
23	—	1·3	280	2·0	—	1·4	270	2·1	—	1·3	290	1·8	—	0·9	180	2·1	160	4·2	170	4·4	170	5·2	170	6·1
24	—	1·3	200	1·7	180	2·1	180	1·7	190	1·8	180	3·1	180	2·7	180	5·2	180	5·2	170	4·8	170	5·2	160	6·4
25	140	7·7	140	7·7	140	7·0	130	6·7	120	5·9	120	7·1	110	7·1	110	7·4	100	8·6	100	7·7	90	10·1	100	10·6
26	70	7·9	80	9·0	80	8·7	80	6·8	70	7·1	70	7·9	80	7·9	80	8·3	80	7·3	80	8·7	80	6·5	70	7·1
27	340	1·6	340	1·6	—	0·8	—	0·4	—	0·4	—	0·0	—	0·8	150	2·6	150	4·3	160	4·6	220	5·1	310	6·2
28	310	3·6	290	3·3	290	2·9	280	2·9	270	1·7	290	3·6	290	5·1	300	4·6	310	4·9	320	6·2	330	6·2	330	6·8
29	300	5·2	300	4·3	300	3·9	300	3·9	310	4·6	300	5·2	300	6·6	310	5·2	330	5·1	340	6·2	320	4·7	320	5·7
30	—	0·8	—	0·8	—	0·8	—	0·8	—	0·4	—	1·2	300	2·3	280	2·0	280	5·4	270	4·3	250	2·5	240	2·5
Mean	—	4·3	—	4·3	—	4·5	—	4·2	—	**3·9**	—	4·1	—	4·6	—	4·9	—	5·7	—	6·2	—	6·1	—	6·4
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes, centred at exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 13 metres + 23 metres.

March, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
10	8·1	360	9·2	360	8·8	340	7·1	320	6·5	310	5·6	300	5·6	310	4·9	310	4·9	290	2·9	270	3·9	250	2·9	7·7	1
280	2·5	300	3·3	300	1·6	—	0·4	—	1·0	300	1·6	330	1·8	—	1·0	300	2·0	290	2·5	300	2·3	300	3·0	2·6	2
290	3·6	290	3·3	310	2·3	290	2·5	300	2·3	300	2·6	300	3·9	300	3·9	300	4·3	300	4·6	290	5·1	290	5·1	3·1	3
—	1·4	60	1·8	130	4·7	140	5·4	140	4·5	130	5·2	130	4·3	140	5·7	140	5·4	140	7·0	150	5·6	150	7·7	4·6	4
140	8·6	130	8·3	130	8·3	130	7·9	130	7·9	120	9·8	120	8·3	130	9·0	120	9·5	110	10·7	110	11·0	110	11·0	8·4	5
110	8·6	100	8·3	110	7·4	100	7·7	100	7·0	110	8·3	100	7·0	110	6·7	80	9·4	90	9·4	80	7·9	60	5·1	9·7	6
110	11·8	110	11·0	110	11·8	110	9·8	100	10·3	100	10·6	100	12·3	100	11·1	100	11·1	90	10·4	90	10·1	90	8·7	9·6	7
60	5·1	60	5·4	50	6·8	50	6·8	40	6·2	40	6·7	60	7·3	60	6·8	40	7·9	40	5·9	40	6·2	50	6·5	5·5	8
50	5·1	30	3·4	10	3·4	30	3·4	320	2·9	330	4·0	300	4·6	300	3·9	320	4·7	30	3·4	100	1·6	—	0·4	5·1	9
340	4·3	350	5·5	360	5·7	360	7·5	350	6·0	340	6·2	360	9·2	360	9·2	360	8·8	360	8·3	360	8·3	360	9·2	4·5	10
330	7·9	320	7·9	340	8·3	330	7·9	330	8·2	320	7·3	310	7·5	310	7·9	300	7·9	310	9·8	320	9·4	310	7·5	8·2	11
300	6·9	290	7·3	300	7·5	300	5·6	290	4·7	260	3·3	260	2·9	280	1·6	—	1·4	—	1·2	280	2·9	—	1·3	5·1	12
80	4·7	70	3·1	50	3·3	20	3·0	360	2·1	310	2·0	310	3·0	310	3·6	310	3·9	310	3·6	310	3·6	310	3·3	2·8	13
—	0·8	—	1·3	140	1·6	110	1·6	—	0·8	—	0·4	—	1·2	290	1·6	290	1·8	290	2·2	—	1·4	300	1·6	2·2	14
180	3·5	180	4·0	150	3·9	160	3·2	180	2·7	180	2·1	170	2·1	170	1·7	160	1·8	140	1·6	170	2·1	200	1·7	2·5	15
130	5·5	140	6·1	150	6·4	160	6·0	160	7·8	160	6·9	160	8·3	160	8·3	150	8·1	160	7·3	170	8·3	160	9·2	4·5	16
160	7·8	170	8·3	170	8·8	160	9·7	170	8·8	170	8·3	170	8·3	180	6·9	170	6·5	180	6·9	170	6·9	170	6·5	8·4	17
170	5·2	160	5·5	160	6·0	160	6·4	160	5·0	160	4·6	170	4·8	170	4·4	170	4·4	170	4·4	180	4·4	180	4·8	5·3	18
160	5·5	160	4·6	160	5·5	150	3·0	180	3·5	180	2·7	40	0·8	150	2·1	140	2·0	170	3·1	150	3·4	120	2·4	3·6	19
140	3·7	140	5·5	140	4·5	130	4·7	150	5·6	160	4·6	160	3·6	170	6·1	150	3·9	130	1·9	130	1·9	130	1·6	3·9	20
150	3·4	150	3·4	160	3·6	150	3·9	150	3·0	130	3·1	130	2·4	140	2·0	130	1·9	—	0·9	—	1·0	—	1·4	2·0	21
180	2·1	150	3·9	130	2·4	90	1·8	—	0·4	320	1·8	320	1·8	330	1·8	320	2·2	—	1·4	—	1·4	320	1·8	1·6	22
360	6·9	10	6·4	10	7·3	360	6·5	350	6·4	340	4·7	350	4·6	350	5·5	350	4·6	350	6·0	340	4·3	350	4·2	4·8	23
50	6·8	70	5·2	70	4·7	60	3·6	50	2·9	20	2·1	—	0·8	—	1·2	320	1·9	300	2·4	300	2·3	300	1·6	3·5	24
160	5·5	160	5·5	160	5·0	160	6·0	170	4·4	180	4·4	170	4·0	180	2·7	190	2·8	200	2·6	190	3·2	200	3·0	3·1	25
180	6·1	180	6·1	190	7·8	190	6·9	190	5·0	190	5·0	190	5·0	200	4·3	200	2·6	—	0·9	—	1·2	—	1·2	4·1	26
—	1·2	—	1·3	60	1·6	40	3·1	30	3·0	20	3·4	10	1·7	350	2·8	350	3·2	360	4·0	40	7·4	40	7·9	2·5	27
60	5·4	60	4·0	70	8·8	50	3·3	70	3·1	90	3·3	120	3·1	130	3·6	120	2·8	130	3·1	140	2·5	150	4·7	4·6	28
170	7·5	170	7·5	160	7·8	160	7·8	160	6·4	160	5·5	170	5·7	160	6·0	160	6·4	160	6·4	160	6·9	160	7·8	5·8	29
160	9·2	160	9·7	170	8·8	150	9·4	140	9·9	140	9·9	150	11·1	140	10·3	140	10·6	140	9·9	150	10·4	150	11·1	8·7	30
150	9·7	150	10·3	150	8·6	160	8·7	150	9·0	150	9·4	160	8·3	160	9·2	160	8·7	160	9·7	160	8·3	170	7·9	9·4	31
—	5·6	—	5·7	—	5·8	—	5·5	—	5·1	—	5·0	—	5·0	—	5·0	—	5·1	—	5·0	—	5·0	—	4·9	5·1	

April, 1931.

°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
150	10·7	140	10·3	150	10·7	140	10·3	140	9·9	140	10·3	150	9·4	150	11·1	140	10·6	140	10·3	140	10·6	140	10·3	9·4	1
140	7·7	150	6·4	140	7·0	140	6·5	140	6·1	150	4·3	160	4·2	170	2·1	190	1·8	—	1·4	300	2·0	300	2·0	7·3	2
360	8·8	360	7·5	10	6·4	360	5·2	350	5·5	340	4·0	340	1·9	300	2·3	290	2·9	290	2·2	280	1·6	—	1·4	4·4	3
250	7·9	250	9·0	260	10·5	260	9·3	270	8·6	270	7·3	270	5·6	260	4·0	240	4·0	230	3·3	270	8·1	300	3·0	5·1	4
300	10·2	290	11·2	290	11·5	300	10·2	290	9·0	300	7·5	290	5·7	290	6·8	290	5·7	290	4·7	290	4·7	280	3·3	8·4	5
110	3·1	150	4·7	170	4·0	190	6·0	180	4·4	190	4·6	200	4·2	210	4·5	220	4·7	210	3·7	210	3·3	210	3·3	4·3	6
180	6·1	170	7·5	180	6·5	180	6·5	190	6·0	190	4·6	200	3·4	190	6·4	190	5·5	190	4·2	190	6·4	180	5·7	4·3	7
170	8·3	180	7·5	180	6·5	180	6·5	170	4·8	200	4·3	200	3·0	200	2·6	190	2·2	190	2·2	180	2·7	200	2·1	5·0	8
150	4·7	170	4·4	180	4·8	130	4·0	180	3·1	200	2·6	210	2·0	220	2·2	220	1·8	230	2·9	—	1·1	—	1·3	2·7	9
140	2·9	140	3·3	169	3·6	190	5·0	190	3·2	180	2·7	210	4·5	220	2·9	210	1·6	200	2·1	210	3·7	210	2·0	2·3	10
180	5·7	200	5·1	220	6·5	190	4·2	200	6·0	210	7·0	180	4·4	170	3·5	210	5·4	210	3·3	220	4·0	270	5·7	3·9	11
200	3·4	150	4·2	210	4·1	260	4·3	290	6·8	280	4·1	300	6·6	300	6·6	300	6·6	290	5·4	290	5·1	290	3·3	3·9	12
290	7·6	290	8·3	280	7·7	280	7·0	280	5·7	280	5·4	280	5·7	270	4·3	250	4·3	270	5·6	290	5·4	300	8·2	6·1	13
320	6·2	320	6·8	310	5·6	300	4·3	320	3·6	320	3·6	—	1·1	—	1·2	—	1·3	—	0·4	—	0·4	—	1·2	5·0	14
200	3·4	220	4·3	230	5·1	230	4·0	260	2·9	310	3·3	310	6·2	300	6·2	300	4·3	300	6·2	290	9·8	290	8·7	4·3	15
270	6·2	280	4·7	260	4·7	260	4·7	260	5·2	260	5·1	290	7·3	280	4·9	280	7·4	290	6·5	290	5·4	290	6·8	5·7	16
320	7·3	310	8·7	360	11·3	10	10·3	360	11·3	360	12·7	360	11·9	360	10·9	10	8·6	10	10·7	10	7·7	360	6·9	7·9	17
30	7·3	30	6·4	30	8·1	30	8·1	30	7·3	20	3·9	360	4·8	350	4·6	340	4·3	350	5·5	350	7·8	360	6·9	6·6	18
40	8·3	30	9·0	30	7·3	30	7·7	30	6·4	20	5·6	10	5·1	360	4·8	360	4·8	350	5·0	350	4·6	350	5·0	6·6	19
30	6·8	20	6·4	20	6·8	10	5·6	10	3·9	10	4·7	360	4·4	360	4·4	330	2·2	320	2·6	320	2·6	310	2·6	5·4	20
310	5·7	320	5·4	330	3·6	340	2·8	310	1·6	320	3·6	350	4·6	320	2·9	310	1·6	300	3·0	310	3·0	310	2·0	3·2	21
310	3·3	—	1·4	120	2·4	120	3·6	120	3·1	—	1·2	—	1·2	—	1·4	310	1·6	280	2·0	—	1·1	—	1·2	2·7	22
160	5·5	150	4·3	140	4·1	160	3·6	180	3·5	150	4·3	160	3·2	190	2·2	—	1·4	190	3·2	190	3·2	220	2·2	3·0	23
170	5·7	140	7·4	150	5·6	150	6·4	140	7·0	120	3·6	140	3·7	140	5·7	140	7·4	140	7·4	140	8·6	140	8·3	4·8	24
100	9·0	110	7·4	110	7·1	110	7·4	100	8·3	100	9·0	90	9·3	90	7·6	80	7·6	70	7·4	70	7·1	70	7·9	7·9	25
70	7·4	70	7·9	50	6·8	50	6·8	50	7·3	60	5·1	40	4·0	30	5·1	20	2·6	20	2·6	10	2·6	360	2·1	6·5	26
310	7·9	310	7·5	310	7·9	320	8·7	320	9·0	320	7·9	320	9·3	320	6·8	330	5·1	300	3·0	290	1·8	300	2·3	4·4	27
350	6·9	350	7·8	360	6·9	360	5·7	360	5·2	350	4·6	350	3·6	340	2·8	320	2·9	300	3·3	300	3·3	300	5·2	4·5	28
330	4·3	330	5·1	340	5·5	340	4·7	350	5·0	350	3·6	10	1·7	—	0·8	—	0·8	—	0·8	—	0·4	—	0·8	4·0	29
330	3·3	340	3·1	350	3·2	130	1·9	130	3·1	130	1·6	140	1·9	150	1·6	160	1·9	—	0·8	220	1·9	230	2·4	2·1	30
—	6·4	—	6·4	—	6·4	—	6·0	—	5·8	—	5·1	—	4·8	—	4·4	—	4·1	—	4·1	—	4·3	—	4·1	5·1	
13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day

Direction expressed in degrees from North (E = 90°, S = 180°, W = 270°, N = 360°): Speed in metres per second.

143. Aberdeen: Robinson anemograph from July, 1930. H_a (height of anemograph above M.S.L.) = Height of ground above

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	220	2·9	220	3·3	210	4·1	210	5·4	220	4·0	210	5·4	220	4·3	210	3·3	210	4·1	230	5·1	250	5·4	260	6·5
2	—	0·8	240	1·8	240	1·9	240	1·9	230	2·5	240	2·2	260	2·9	270	4·7	280	4·9	290	5·7	280	4·9	270	5·1
3	—	1·3	—	0·8	—	0·8	280	1·6	—	1·2	—	1·4	—	1·0	—	1·4	80	2·2	110	4·3	110	4·0	100	4·5
4	360	6·9	340	5·9	340	5·2	330	6·2	310	6·2	310	7·2	310	6·9	310	4·6	300	4·3	300	4·6	300	6·6	300	5·9
5	240	2·5	230	3·3	220	3·3	230	3·3	—	1·4	220	2·2	220	3·3	200	4·7	190	5·5	170	7·5	180	7·5	160	6·9
6	200	2·6	190	4·2	140	3·3	130	4·3	180	4·0	190	5·0	190	4·2	190	4·6	190	5·5	180	6·5	170	6·1	180	5·2
7	—	0·8	—	0·8	—	1·2	110	1·6	—	1·2	100	1·9	—	0·8	—	1·2	70	1·6	60	2·2	60	2·2	70	3·1
8	20	2·1	10	2·1	360	2·1	340	1·9	350	1·9	340	2·8	340	3·6	320	2·2	340	3·1	20	3·4	40	5·2	40	5·5
9	290	2·9	290	2·5	290	2·9	290	3·3	290	2·5	300	2·3	310	1·6	60	2·2	80	2·5	100	4·5	120	4·3	120	4·3
10	170	4·0	160	4·2	170	4·0	160	2·8	160	4·6	170	4·8	170	3·5	160	5·0	160	4·6	180	4·0	200	5·6	200	5·1
11	200	3·4	170	2·7	180	3·5	150	3·4	200	5·6	180	5·2	190	6·0	180	6·5	200	5·1	210	9·9	210	10·6	210	11·9
12	210	4·1	210	4·9	220	4·7	230	4·0	220	5·1	220	5·4	220	5·1	210	6·1	210	6·1	220	5·1	210	5·7	220	5·7
13	190	4·6	150	3·4	190	2·8	180	2·7	240	2·9	190	3·6	190	6·4	190	5·0	180	6·9	180	5·7	180	6·1	180	7·9
14	200	3·4	200	6·0	190	4·6	190	5·5	180	5·7	190	6·9	190	8·3	190	8·3	190	7·3	190	6·9	200	6·4	190	8·7
15	190	4·6	190	3·6	190	3·6	190	3·2	200	5·1	210	4·5	220	6·5	210	6·1	220	6·2	220	7·6	220	8·3	220	7·3
16	290	1·8	280	1·6	—	0·3	—	0·8	—	0·8	—	1·4	—	0·8	—	0·3	110	1·6	140	4·9	170	4·4	160	5·5
17	300	2·0	330	2·5	340	2·8	330	2·5	310	2·6	340	3·6	350	4·6	360	4·4	20	2·6	30	4·3	60	4·7	70	5·2
18	290	2·5	290	2·5	290	2·5	290	2·9	300	3·6	300	3·9	310	3·6	320	4·3	330	5·1	350	6·0	360	4·8	350	4·2
19	340	2·4	320	3·3	300	2·3	300	3·3	300	3·0	320	2·9	350	3·2	60	3·6	60	4·3	60	5·4	60	4·3	60	6·2
20	310	3·0	310	2·3	320	2·5	310	3·0	320	3·6	330	2·9	350	4·6	340	4·3	330	4·7	360	4·8	360	5·2	30	4·3
21	—	0·9	—	1·3	290	2·9	270	1·7	—	0·8	—	1·1	190	1·8	200	3·0	180	4·8	170	6·5	180	5·7	170	6·5
22	110	2·4	100	3·7	90	2·9	70	2·4	100	3·7	70	2·4	50	1·8	40	3·1	30	3·9	40	4·7	50	5·4	60	4·0
23	350	2·8	30	3·0	—	1·3	—	1·1	—	1·3	300	2·3	300	2·3	290	2·9	—	1·3	—	1·4	140	4·1	180	4·8
24	110	1·6	—	1·2	—	1·3	150	3·9	130	4·0	130	2·8	110	1·9	100	1·6	120	2·8	120	3·1	130	2·8	150	2·1
25	200	5·6	200	3·9	200	2·1	170	4·0	180	3·5	180	5·7	180	6·5	180	6·5	180	6·5	190	7·3	180	7·9	180	7·9
26	180	3·1	180	4·0	190	4·2	180	3·5	190	3·2	180	4·4	170	4·8	180	5·7	180	4·8	160	6·4	180	6·5	180	6·5
27	—	1·4	—	1·3	—	0·8	—	0·4	—	0·4	—	0·4	—	0·9	—	1·4	90	2·2	80	2·5	100	2·5	110	4·0
28	310	3·0	310	2·0	320	2·5	320	2·9	330	2·2	10	2·1	10	2·1	20	3·4	30	4·7	40	5·9	40	5·5	40	6·2
29	10	3·9	360	4·4	330	2·5	300	2·6	290	4·0	280	4·1	280	5·4	270	6·4	280	6·5	300	5·6	290	5·4	300	4·3
30	360	1·7	—	0·9	—	0·8	—	1·3	20	2·1	30	3·0	50	2·5	50	2·9	40	4·0	40	3·6	30	3·9	60	2·9
31	—	1·4	—	1·4	50	2·2	60	2·5	110	3·6	110	3·1	90	2·5	90	2·5	40	1·6	40	2·8	20	2·6	40	4·3
Mean	—	2·8	—	2·9	—	**2·6**	—	2·9	—	3·1	—	3·4	—	3·7	—	3·9	—	4·2	—	5·1	—	5·3	—	**5·6**

144. Aberdeen: H_a = 13 metres + 23 metres.

Day	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	40	4·3	40	5·5	40	6·2	30	4·3	30	4·7	20	3·9	20	4·3	30	4·3	30	4·3	20	4·7	10	6·4	360	6·5
2	340	4·0	330	3·6	330	3·3	340	3·6	320	2·9	330	3·6	330	4·3	330	4·0	340	3·6	350	4·6	360	4·4	10	4·3
3	350	2·2	350	3·2	360	4·0	350	2·8	350	3·2	10	3·0	40	4·0	40	4·3	60	3·6	80	4·3	90	4·7	90	4·3
4	150	2·1	130	1·9	150	3·4	140	1·6	130	2·8	130	3·1	120	3·6	110	4·3	90	5·1	80	5·4	70	5·5	70	5·9
5	90	4·7	100	4·5	100	4·9	90	4·0	100	4·9	100	5·7	110	5·2	110	5·2	120	5·2	110	5·5	110	5·5	110	5·9
6	90	5·4	100	7·4	100	6·5	90	6·5	90	7·6	90	7·3	90	7·3	90	7·9	90	7·3	90	7·9	90	7·3	100	8·3
7	70	4·3	70	2·4	10	1·7	—	1·0	—	1·0	10	1·7	50	2·5	50	1·8	70	1·9	90	2·2	90	4·0	90	4·0
8	110	3·1	110	2·8	110	2·8	110	3·1	110	2·8	110	3·6	110	3·6	110	3·6	120	4·3	120	4·7	110	4·3	120	5·2
9	110	4·3	100	4·1	100	4·5	90	4·0	110	4·0	120	3·6	120	3·6	130	2·4	160	4·2	160	4·2	150	3·4	150	2·6
10	10	2·1	10	2·6	350	2·2	330	2·2	340	1·9	310	2·3	350	2·2	330	2·2	320	2·5	—	1·0	30	1·7	100	1·6
11	—	0·4	—	0·4	—	0·4	—	0·4	—	0·7	—	0·4	—	0·4	—	1·3	280	3·7	350	4·6	310	3·6	310	6·5
12	—	1·1	—	1·4	—	1·1	—	1·1	—	1·4	—	0·0	—	0·8	120	1·9	160	2·8	120	2·8	130	4·3	140	4·5
13	—	1·3	—	0·9	280	2·0	290	2·2	290	2·2	290	2·5	—	1·3	100	2·0	100	2·5	90	2·5	90	2·2	90	3·6
14	130	4·3	120	4·3	130	4·7	120	5·9	120	6·2	130	7·1	140	7·7	150	9·0	140	7·4	140	6·1	140	7·4	120	5·5
15	40	2·4	300	2·6	290	4·7	270	4·3	260	4·0	280	7·7	280	9·9	280	10·6	280	10·3	270	14·3	280	12·3	280	11·5
16	100	2·0	180	4·0	180	4·4	190	5·0	190	6·0	190	6·4	180	5·2	180	8·3	180	8·3	190	6·9	190	7·3	190	7·3
17	—	0·4	—	0·0	—	0·4	—	0·4	—	0·4	—	0·0	—	0·8	120	2·4	120	2·8	120	3·6	120	2·4	60	2·5
18	240	2·9	250	2·2	240	2·2	260	1·8	260	2·2	260	1·8	270	1·7	240	2·9	250	2·9	250	4·0	200	3·4	200	3·9
19	10	3·9	360	3·5	350	3·6	350	3·6	350	3·2	340	3·6	350	3·2	360	5·2	360	6·9	360	7·9	360	7·9	360	8·3
20	290	2·2	290	2·2	290	1·8	290	2·2	300	2·0	300	2·3	290	2·9	270	3·4	290	3·6	300	2·6	—	1·3	130	3·6
21	210	3·7	200	2·6	180	1·7	210	4·1	210	3·3	220	2·5	190	1·8	270	3·4	260	3·6	260	3·3	250	3·6	250	2·9
22	210	3·7	220	1·8	270	3·4	320	6·2	320	4·7	300	4·6	300	6·6	290	7·9	280	8·3	300	10·5	290	10·1	290	8·7
23	—	1·2	—	0·8	—	0·4	—	0·4	—	0·3	—	0·8	260	1·8	—	1·1	160	4·2	140	4·1	140	3·7	130	4·7
24	320	2·5	300	2·6	300	2·3	300	2·6	290	2·9	320	3·3	320	2·9	10	3·9	10	3·9	360	4·0	60	4·3	70	5·5
25	180	1·7	200	1·7	200	1·7	210	2·5	210	1·6	—	1·3	210	2·0	200	2·1	170	4·4	180	5·2	190	6·4	180	6·1
26	210	2·5	—	1·2	—	0·8	—	0·4	—	0·4	—	0·8	190	3·6	190	4·6	180	4·4	180	4·4	180	5·7	190	6·0
27	200	6·4	180	4·0	220	4·0	220	4·7	220	1·8	210	2·9	150	4·3	180	4·0	270	6·4	290	5·7	300	3·9	70	4·7
28	240	2·5	—	1·4	—	0·3	260	1·8	—	1·4	310	2·3	300	3·9	300	4·9	300	3·6	180	4·8	130	4·7	130	6·2
29	260	4·7	270	5·0	260	4·0	250	3·6	270	5·1	280	7·0	290	7·3	290	8·7	290	7·6	300	6·2	300	8·2	310	7·9
30	200	1·7	210	2·9	220	2·5	220	2·2	230	1·8	230	1·8	—	1·4	—	1·4	180	1·7	140	4·1	150	5·6	150	6·8
Mean	—	2·9	—	**2·8**	—	2·9	—	2·9	—	2·9	—	3·2	—	3·7	—	4·3	—	4·7	—	5·1	—	5·2	—	**5·5**
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = **13** metres + **23** metres.

May, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
260	7·6	290	9·3	280	8·6	290	6·8	290	8·3	280	6·1	280	6·1	280	5·7	270	5·6	260	3·3	270	4·3	250	2·5	5·3	1
300	2·3	180	4·0	180	4·4	200	4·7	210	3·3	270	4·3	260	2·2	230	1·8	250	2·5	—	1·2	—	0·8	—	0·8	3·0	2
100	4·1	80	4·0	70	4·7	80	5·1	60	3·6	50	3·6	30	4·7	360	3·1	350	3·6	350	4·6	340	3·6	340	3·1	3·0	3
300	5·6	300	5·6	300	4·9	310	3·9	320	3·6	320	2·9	—	1·4	—	0·8	150	1·6	210	1·6	210	2·0	250	2·9	4·5	4
160	8·7	170	7·5	170	6·1	190	6·0	180	5·2	180	4·8	170	3·5	200	3·1	180	3·5	190	1·8	190	2·2	190	4·2	4·5	5
170	5·7	180	6·1	170	6·1	150	4·3	160	3·2	190	2·8	150	3·0	150	2·6	110	1·9	—	0·8	—	0·4	—	0·8	4·0	6
70	2·4	—	1·2	40	1·6	40	2·4	—	1·2	50	1·6	50	1·9	40	1·6	40	1·9	20	2·1	—	0·0	—	1·2	**1·6**	7
50	5·4	40	7·4	50	7·3	50	6·2	40	6·2	40	5·4	20	3·0	10	2·1	350	2·8	330	2·5	320	2·5	290	2·9	3·7	8
130	4·7	140	5·7	160	6·0	160	5·5	160	4·6	160	5·0	170	5·2	170	4·0	180	4·8	190	5·0	190	4·2	170	3·5	3·9	9
190	5·0	200	3·9	200	4·7	170	5·2	200	5·0	200	4·7	190	4·2	200	3·9	190	5·0	200	6·8	200	6·4	190	5·0	4·6	10
220	11·6	210	13·9	220	12·2	230	11·6	240	11·2	240	8·0	240	5·4	230	4·0	230	4·3	240	3·6	220	3·6	220	5·1	**7·0**	11
230	6·8	230	6·5	230	5·7	220	5·4	200	5·1	170	4·4	190	3·6	200	2·6	200	2·6	190	4·2	200	3·4	210	5·4	4·9	12
180	9·3	190	7·8	170	6·1	180	4·8	200	5·2	180	4·4	190	5·0	180	3·5	180	3·5	200	3·0	190	2·8	190	3·6	4·9	13
190	6·9	190	6·4	190	6·9	220	5·1	210	7·0	210	7·0	210	6·5	210	6·1	210	4·1	190	5·0	190	6·0	190	6·0	6·2	14
210	7·7	210	6·5	230	6·5	230	6·5	230	5·7	230	5·7	230	3·6	210	4·1	230	3·3	240	2·2	270	1·7	—	1·3	5·2	15
160	5·0	160	3·6	150	2·6	130	1·6	—	1·1	—	1·0	—	1·1	—	0·9	—	1·3	—	1·2	340	1·9	330	2·2	2·0	16
70	4·7	60	4·0	50	4·3	70	5·2	70	4·0	60	3·3	40	1·6	—	1·3	340	1·6	320	1·8	—	1·4	290	2·5	3·2	17
60	2·9	40	4·3	60	6·8	50	5·7	50	6·8	40	4·7	350	5·0	360	4·0	350	3·6	330	2·2	340	3·1	340	2·8	4·1	18
60	7·9	60	7·6	60	7·6	60	6·2	60	5·7	20	6·0	10	3·0	360	3·1	320	2·5	320	2·9	330	2·2	320	2·2	4·2	19
350	5·0	340	5·2	350	4·6	360	5·2	360	4·8	360	4·0	350	4·6	330	2·5	310	2·0	290	1·8	300	2·0	290	2·5	3·7	20
170	6·1	170	6·5	160	5·5	170	6·1	150	5·1	140	5·4	140	4·1	140	3·7	140	4·1	140	2·9	130	3·1	120	3·1	3·9	21
80	4·0	80	4·0	90	4·0	80	2·9	60	2·9	40	4·3	30	3·4	30	3·0	30	3·0	360	2·1	350	2·2	340	1·6	3·3	22
170	5·2	170	5·7	180	4·4	160	6·4	160	7·3	160	5·0	140	4·1	120	3·1	110	2·4	90	2·2	70	1·6	120	1·9	3·2	23
180	1·7	110	2·4	—	1·2	—	1·3	220	1·8	230	4·0	240	3·6	230	4·7	230	5·4	220	3·3	150	3·9	210	4·5	2·7	24
180	8·3	180	7·5	190	8·7	180	7·5	180	7·9	180	8·3	180	6·1	170	4·8	180	4·4	190	5·5	200	4·3	200	5·1	6·1	25
170	5·2	150	6·8	160	5·5	180	4·8	200	3·0	180	4·0	180	3·5	200	2·6	200	2·1	—	0·8	170	1·7	170	1·7	4·2	26
110	4·0	130	3·6	130	4·3	120	3·1	120	3·6	120	1·9	100	2·5	—	1·1	—	0·9	—	1·4	—	1·2	—	1·3	2·0	27
40	5·9	40	5·5	40	5·2	40	5·5	30	4·7	20	3·4	30	4·3	20	4·3	30	3·9	20	4·7	20	4·7	20	4·3	4·1	28
120	1·6	130	1·6	120	2·8	30	2·1	360	3·1	350	3·6	360	3·1	360	2·7	20	1·7	—	1·3	20	1·7	10	1·7	3·5	29
80	2·2	80	2·9	90	2·9	110	2·8	120	3·1	160	3·6	90	2·2	—	0·8	—	0·8	—	1·1	—	0·8	—	1·4	2·3	30
50	4·7	40	5·2	30	6·4	30	5·6	30	4·3	30	4·3	30	2·9	20	2·9	40	5·2	40	5·2	40	5·2	40	6·2	3·6	31
—	5·4	—	5·6	—	5·4	—	5·0	—	4·8	—	4·4	—	3·7	—	3·0	—	3·1	—	2·8	—	2·7	—	3·0	3·9	

June, 1931.

°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
360	6·5	360	6·9	360	6·9	360	6·5	360	6·5	360	7·5	350	6·0	350	6·0	350	5·5	340	4·0	350	4·2	340	4·0	5·4	1
350	4·2	60	4·0	60	4·3	60	5·7	60	4·0	80	2·9	70	2·4	50	2·5	20	1·7	360	2·1	360	2·1	350	2·8	3·6	2
100	4·5	100	3·3	100	4·9	110	3·6	120	3·6	120	3·6	140	3·3	140	3·3	140	3·3	140	2·9	150	3·4	160	2·2	3·6	3
70	5·9	70	4·0	70	5·5	70	5·5	70	4·7	70	5·5	70	5·2	70	5·2	70	5·5	80	4·7	90	5·1	90	4·7	4·4	4
110	5·9	110	5·9	100	5·7	110	6·2	110	5·5	110	4·7	110	5·2	110	4·7	110	5·2	100	5·4	100	5·7	90	6·2	5·3	5
90	6·5	90	6·8	90	7·6	90	5·7	90	5·7	90	5·7	90	4·0	80	4·7	90	4·7	60	2·9	—	1·1	60	1·8	6·1	6
100	5·4	90	4·0	90	4·3	90	3·6	90	3·3	90	4·0	90	3·6	90	3·6	100	3·7	110	2·4	100	3·7	110	2·8	3·0	7
120	5·2	120	4·7	110	5·2	120	4·7	110	4·3	110	3·1	120	4·0	120	4·3	120	3·6	130	4·7	120	3·6	120	4·7	4·0	8
150	4·7	150	4·3	140	3·3	140	3·7	140	2·0	120	1·9	—	1·4	110	1·9	100	2·9	80	4·0	70	2·5	50	2·5	3·4	9
120	2·4	130	3·1	130	2·8	150	3·0	130	3·1	130	2·8	120	2·8	100	3·3	100	2·0	110	1·6	—	1·2	—	1·2	2·3	10
320	6·2	310	6·8	320	5·4	340	5·5	340	6·7	350	6·0	350	6·0	360	3·5	350	1·8	—	1·3	300	1·6	290	1·8	3·1	11
150	6·0	150	4·3	160	5·0	180	5·2	190	3·6	200	3·4	210	4·1	210	3·7	210	1·6	—	1·4	—	0·8	—	1·1	2·7	12
110	3·6	100	4·1	140	3·3	160	3·2	140	2·5	130	3·9	150	5·1	150	4·3	130	4·3	140	4·1	130	4·3	130	3·6	2·9	13
110	3·6	120	4·0	130	4·0	140	3·7	120	4·7	100	3·7	90	2·2	110	3·1	110	2·4	90	4·3	40	3·6	80	4·7	5·0	14
280	11·1	270	9·0	250	7·6	260	7·3	240	4·3	210	5·7	210	4·9	210	5·7	220	5·1	210	3·7	200	3·0	200	3·4	**6·9**	15
180	6·5	180	5·7	210	6·5	240	4·0	240	4·0	230	5·4	230	3·3	220	3·3	230	2·9	240	2·2	—	1·4	280	1·6	4·9	16
300	1·6	250	4·3	280	3·3	240	1·8	—	1·4	—	0·9	220	2·2	220	1·8	250	2·5	260	3·3	260	1·8	250	3·6	**1·8**	17
300	1·6	360	3·1	30	2·1	50	2·5	100	2·5	—	1·1	40	1·9	10	1·7	20	2·6	20	3·9	10	4·7	10	4·7	2·7	18
360	6·9	360	7·5	360	6·5	20	6·0	350	5·0	360	4·8	360	4·4	350	4·6	340	3·1	310	1·6	300	2·3	290	2·5	4·9	19
160	6·9	170	6·1	180	5·2	190	5·0	190	3·6	210	2·5	230	3·6	230	4·0	220	4·3	220	4·0	210	5·7	220	3·6	3·5	20
230	3·3	250	4·3	260	6·2	260	7·9	260	6·5	250	6·2	260	5·1	250	5·1	240	3·3	240	5·1	220	3·3	220	2·5	4·0	21
300	7·5	300	6·2	310	5·6	310	6·6	310	5·6	320	5·1	330	3·6	320	6·2	310	3·0	300	2·0	—	1·4	—	1·4	5·5	22
130	4·0	120	3·6	70	4·3	50	3·3	60	3·3	70	2·4	40	1·9	40	1·6	20	3·0	350	2·2	340	1·9	350	2·2	2·4	23
60	5·4	70	5·2	70	4·7	80	4·3	80	5·1	90	3·3	110	2·4	100	2·0	100	1·6	—	1·2	140	1·6	150	2·1	3·3	24
180	5·2	180	7·5	180	6·5	190	7·3	190	7·8	200	6·0	200	6·0	200	4·3	190	4·2	190	2·8	—	1·1	180	1·7	4·1	25
200	5·2	210	4·5	230	5·7	220	5·4	220	4·0	210	4·1	200	4·3	210	4·9	210	4·9	200	5·1	200	6·0	200	6·0	3·9	26
60	4·7	70	5·5	90	3·6	90	2·5	110	3·1	110	1·9	110	1·6	—	1·3	—	0·4	—	1·1	—	0·4	—	1·1	3·4	27
140	5·4	130	4·7	120	2·8	80	2·5	180	4·0	290	5·1	290	5·1	280	6·1	250	4·7	240	4·0	230	3·6	260	3·6	3·7	28
300	6·2	300	5·9	310	5·6	340	4·0	90	4·0	130	2·8	130	3·1	130	3·6	130	1·9	150	1·7	—	1·3	—	1·3	4·9	29
130	5·9	130	5·5	160	4·2	150	4·3	140	3·7	160	3·6	160	5·0	160	4·2	170	4·4	170	4·8	180	3·5	180	3·5	3·6	30
—	5·3	—	5·2	—	5·0	—	4·7	—	4·3	—	4·0	—	3·8	—	3·8	—	3·3	—	3·1	—	2·9	—	3·0	3·9	
13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day

Direction expressed in degrees from North (E = 90°, S = 180°, W = 270°, N = 360°): Speed in metres per second.

145. Aberdeen : Robinson anemograph from July, 1930. H_a (height of anemograph above M.S.L.) = Height of ground above

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	200	2·1	200	1·7	200	1·7	—	1·0	180	2·1	190	4·2	180	3·1	200	4·3	190	3·6	170	5·7	180	7·5	190	6·4
2	210	3·7	200	3·9	190	3·6	180	3·5	180	3·1	190	6·4	190	7·3	190	4·2	180	4·4	180	4·0	170	4·4	220	3·6
3	—	1·1	—	1·3	—	1·3	—	1·4	—	1·3	200	3·4	190	6·0	210	5·7	200	6·0	210	5·4	200	8·6	150	6·0
4	—	1·3	190	3·2	200	2·1	190	3·6	180	3·5	210	3·3	210	2·9	210	4·1	200	4·7	190	6·4	180	6·1	180	6·9
5	200	2·1	—	1·4	—	1·2	190	2·8	220	2·5	230	1·8	190	4·2	190	4·2	170	3·5	190	5·0	170	5·7	180	5·2
6	—	1·1	—	1·2	—	1·4	80	1·8	—	0·8	20	1·7	20	2·1	20	2·6	20	2·1	30	3·0	30	2·1	40	4·0
7	—	0·8	—	1·3	300	2·6	350	2·8	320	1·8	300	2·3	300	3·3	300	3·3	320	2·2	330	2·5	70	2·8	120	1·9
8	—	0·0	—	0·8	—	0·9	—	1·3	—	1·3	360	2·7	340	3·1	320	4·0	330	5·4	340	5·9	340	7·1	350	6·0
9	300	8·2	300	9·2	300	8·9	300	7·9	300	8·5	290	9·8	300	10·5	300	9·8	300	9·8	310	9·8	310	8·9	320	9·0
10	330	4·3	320	5·1	310	3·9	320	4·3	300	3·9	300	5·2	300	4·3	320	5·7	320	4·7	340	4·3	320	3·6	330	4·0
11	—	0·4	—	0·4	—	0·0	—	0·4	—	0·0	—	1·2	130	1·6	120	2·4	130	3·1	130	3·6	170	4·8	160	4·2
12	120	1·6	140	2·5	110	1·9	120	3·6	130	3·1	130	3·1	130	2·4	130	3·1	120	2·8	140	3·3	140	4·5	140	4·5
13	—	1·3	—	0·9	—	0·8	—	1·3	270	1·7	—	1·3	280	3·3	280	4·9	30	2·6	140	2·9	—	1·2	170	4·0
14	—	1·3	—	1·2	—	1·4	—	1·3	—	0·4	—	1·3	180	2·1	170	4·0	150	3·4	120	3·1	120	4·0	110	3·6
15	100	2·5	60	2·2	60	2·2	70	2·8	60	1·8	50	1·8	40	2·4	20	4·3	30	2·1	360	2·7	360	2·7	40	3·1
16	340	1·6	320	2·5	320	1·8	320	2·5	360	1·7	—	1·2	320	1·8	300	2·0	30	3·0	120	2·4	180	1·7	290	3·3
17	290	1·8	280	1·6	280	2·0	280	1·6	—	1·3	290	3·3	290	2·9	320	2·9	—	0·7	—	0·3	110	1·6	130	4·0
18	—	0·4	—	0·7	300	1·6	—	1·4	340	1·6	20	2·1	360	3·1	350	3·2	360	2·7	360	3·1	70	2·4	90	1·8
19	280	2·0	—	1·4	—	1·1	—	0·8	—	1·1	—	1·1	—	0·8	300	1·6	360	4·0	310	2·6	300	3·6	300	3·9
20	320	3·6	300	3·6	310	4·6	300	4·9	300	5·6	310	4·9	300	6·9	320	8·2	320	7·6	320	8·2	320	6·2	330	6·8
21	290	2·2	270	3·4	290	1·8	290	3·3	280	2·9	280	4·5	300	5·6	300	6·2	300	4·9	300	4·6	300	2·3	40	4·0
22	200	4·7	210	3·7	210	2·9	—	1·3	200	1·7	200	1·7	210	2·5	190	2·2	200	2·6	210	4·1	220	5·1	200	6·4
23	210	4·5	210	4·1	210	4·1	180	3·1	190	4·2	200	5·6	210	7·4	220	7·6	220	9·0	210	8·3	210	8·3	220	6·8
24	200	3·4	200	3·0	180	3·1	170	3·5	180	3·5	190	3·2	200	2·1	190	3·2	180	3·5	160	4·2	160	4·6	150	4·3
25	—	0·4	—	0·4	—	0·8	—	0·9	—	0·4	—	0·4	—	0·4	—	1·3	30	2·1	30	2·1	30	3·4	30	4·3
26	—	1·0	310	2·0	—	1·4	—	1·3	310	3·0	310	3·6	300	3·9	300	3·6	300	3·0	320	3·3	320	3·6	330	2·5
27	310	2·3	300	2·6	300	3·6	290	4·3	280	4·5	280	4·9	270	4·7	280	4·9	280	6·5	290	4·3	290	4·3	290	4·7
28	290	2·5	290	3·3	290	2·9	280	4·1	280	4·1	280	4·9	280	5·7	270	4·3	270	3·4	270	6·8	280	7·0	290	7·6
29	290	7·3	280	5·4	260	3·3	210	1·6	230	2·5	210	2·0	230	1·8	210	2·9	210	3·7	210	3·7	210	4·9	200	6·8
30	—	0·4	—	0·4	290	1·8	—	1·1	280	1·6	—	1·3	280	1·6	—	0·0	—	1·1	120	1·9	280	2·5	110	2·4
31	210	1·6	—	0·8	—	1·1	290	2·5	280	2·0	270	1·7	—	0·9	—	0·4	—	0·0	40	1·9	60	2·5	80	2·5
Mean	—	2·3	—	2·4	—	2·3	—	2·5	—	2·5	—	3·1	—	3·6	—	3·9	—	3·8	—	4·2	—	4·5	—	4·7

146. Aberdeen : H_a = 13 metres + 23 metres.

Day	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	—	0·4	—	0·7	290	1·8	310	1·9	290	1·8	300	1·6	—	0·4	—	1·2	110	1·9	110	2·8	110	2·4	120	2·8
2	180	2·1	140	1·6	140	1·6	—	0·9	—	0·4	—	0·8	100	1·6	110	1·6	120	2·8	130	3·1	110	1·9	90	2·2
3	—	0·9	—	0·4	—	1·2	—	1·3	—	0·9	—	1·3	—	0·9	—	0·4	—	1·4	70	1·6	80	2·9	90	2·5
4	—	0·8	300	3·0	—	0·3	—	0·8	—	1·4	—	0·7	—	0·4	—	1·1	—	0·8	70	1·9	60	2·5	70	2·4
5	—	0·4	—	0·8	—	0·8	—	0·8	—	1·2	—	1·0	—	0·8	—	1·0	—	1·1	80	1·8	80	1·8	80	1·8
6	—	0·9	—	1·4	—	0·7	—	0·8	—	0·8	—	1·3	—	1·4	320	2·2	340	1·6	360	3·5	360	3·5	360	4·0
7	300	5·4	320	4·0	310	3·6	310	3·0	290	3·6	290	4·7	300	6·2	290	6·5	300	5·9	300	5·6	300	5·6	310	6·2
8	290	2·5	290	4·7	290	5·4	290	5·7	290	7·3	290	7·9	350	6·9	10	8·6	360	7·9	340	8·3	340	8·3	340	7·1
9	320	6·8	320	6·8	320	6·5	320	7·6	310	7·5	320	7·6	320	8·3	330	7·9	330	6·5	330	6·8	320	7·3	320	8·3
10	—	1·1	—	0·9	—	1·4	—	0·4	—	0·4	—	0·4	—	1·3	30	1·7	70	1·9	220	2·2	340	3·6	330	3·6
11	300	3·3	290	3·6	280	2·5	280	2·0	290	2·5	290	2·9	290	4·0	290	4·3	290	3·6	300	3·6	300	3·0	320	2·9
12	300	3·0	300	4·3	290	4·3	300	3·9	290	2·2	—	0·7	—	1·1	290	3·6	300	3·0	300	3·3	290	3·3	290	3·3
13	—	1·3	—	0·8	120	1·6	140	1·6	—	1·3	120	1·9	110	3·1	130	2·8	120	2·8	130	3·6	130	4·7	130	3·6
14	140	3·2	140	2·5	120	4·0	140	3·3	140	2·0	120	1·6	110	3·1	110	4·0	100	4·9	90	6·2	90	7·9	90	7·6
15	300	2·0	320	2·2	300	2·0	300	2·0	290	2·9	290	3·3	320	1·8	40	3·6	40	2·4	60	2·5	90	2·2	100	3·3
16	—	1·2	110	1·6	100	2·5	100	2·9	100	3·3	100	2·9	90	3·3	100	4·1	90	4·0	90	4·7	70	3·6	70	4·3
17	60	3·3	60	2·9	40	3·6	40	3·6	30	3·4	30	3·4	30	4·3	30	3·9	20	3·0	30	4·3	30	5·1	30	3·4
18	290	1·8	290	2·9	290	2·9	290	3·3	—	0·8	—	1·3	290	2·5	320	1·8	320	1·8	—	1·2	80	2·5	80	1·8
19	—	0·8	—	0·9	40	1·9	50	2·5	60	2·5	70	4·0	70	3·6	70	3·6	70	4·3	80	5·4	90	6·2	90	5·7
20	40	11·0	40	11·0	50	10·5	60	10·8	50	11·2	50	12·2	50	12·7	40	12·2	30	6·4	40	10·2	40	9·5	40	7·4
21	340	7·1	340	5·9	340	5·9	350	6·9	340	6·9	340	6·4	350	7·8	340	5·9	350	8·3	340	6·7	340	6·7	340	6·7
22	310	2·6	300	3·9	310	4·3	300	3·9	300	4·6	300	4·3	300	4·3	320	4·0	330	5·7	330	6·5	300	5·6	310	5·9
23	290	4·6	290	5·1	280	4·9	290	5·1	290	4·7	300	3·9	320	4·3	310	4·9	320	5·4	320	5·4	330	5·4	320	6·2
24	300	3·9	290	3·6	300	3·0	300	3·3	300	4·6	300	4·3	300	5·6	310	4·3	340	6·2	360	5·2	360	5·7	360	4·8
25	290	1·8	290	2·9	290	2·9	290	2·9	290	2·2	300	3·0	300	2·6	330	3·6	350	3·2	340	3·6	350	3·6	80	3·3
26	—	1·1	—	0·4	—	0·3	—	1·1	—	1·3	—	1·1	290	1·8	290	2·5	310	3·6	300	1·6	20	2·6	130	4·3
27	—	1·2	—	1·2	260	1·8	—	0·8	—	0·4	280	1·6	—	0·4	—	0·9	220	2·2	180	3·5	160	4·6	160	6·0
28	170	2·7	—	1·0	—	0·9	190	1·8	—	0·9	190	2·8	190	2·8	180	3·5	180	5·2	180	5·7	180	4·4	180	6·5
29	—	0·8	—	0·4	—	0·4	—	0·4	—	1·3	—	1·3	—	1·4	150	1·7	120	4·0	110	4·7	110	4·7	110	4·0
30	290	4·0	290	4·7	290	4·3	290	4·3	290	3·6	300	3·9	290	2·5	290	1·8	310	2·0	40	2·4	40	3·9	30	2·6
31	290	2·9	290	2·9	290	2·9	290	3·3	290	3·6	290	3·6	290	3·3	290	2·5	290	2·2	—	0·7	90	1·8	100	2·5
Mean	—	2·7	—	2·9	—	2·9	—	3·0	—	3·0	—	3·2	—	3·4	—	3·6	—	3·7	—	4·1	—	4·4	—	4·4
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 13 metres + 23 metres.

July, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day.
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
180	6·1	180	6·9	190	5·5	180	5·2	190	5·5	190	4·2	200	2·6	200	3·9	200	3·0	210	4·1	210	3·3	220	2·9	4·0	1
—	1·1	280	2·9	290	3·6	360	3·1	—	1·3	340	1·9	300	2·0	—	0·3	—	0·8	270	2·6	—	1·4	—	0·8	3·1	2
170	5·2	180	7·5	190	6·9	150	5·1	140	3·3	150	3·0	180	3·1	200	3·0	200	2·6	200	3·9	190	1·8	180	2·7	3·9	3
180	6·5	180	6·5	190	5·5	180	6·1	180	5·2	200	4·7	200	3·0	190	4·2	180	4·0	200	3·4	210	2·5	210	2·9	4·3	4
170	6·1	160	6·0	140	5·7	160	5·5	160	6·0	160	6·0	170	5·2	170	2·1	160	3·2	130	1·9	110	1·9	—	1·3	3·8	5
30	3·4	10	3·4	40	3·1	30	4·3	30	2·6	360	1·7	320	2·5	300	2·3	300	2·0	310	2·0	310	2·0	290	3·3	2·3	6
—	0·8	110	1·6	110	1·9	110	2·8	130	1·9	130	1·9	—	1·3	—	0·8	120	1·6	—	0·8	—	0·4	—	0·9	1·9	7
340	5·9	320	8·2	310	6·9	310	8·2	320	8·7	320	7·6	320	9·0	310	7·9	300	6·9	300	7·2	300	7·9	300	7·9	5·3	8
320	11·9	310	9·2	330	7·9	330	6·2	320	8·7	330	7·3	320	6·8	300	5·2	310	5·6	320	5·4	310	4·9	310	4·3	8·1	9
320	3·6	340	4·3	350	4·6	350	5·5	360	3·5	20	1·7	240	1·8	220	2·2	200	1·7	—	0·8	—	1·3	—	0·4	3·6	10
160	4·2	160	4·6	160	4·2	160	5·0	150	4·7	140	4·1	130	4·0	150	3·9	140	3·7	140	3·3	130	2·8	140	2·5	2·8	11
150	6·8	150	8·6	170	5·2	160	5·0	160	4·6	160	3·2	160	2·2	150	3·4	150	3·0	160	2·2	—	1·2	—	1·2	3·5	12
160	4·2	150	2·6	110	2·4	50	1·8	20	3·0	40	2·4	200	3·0	210	2·9	210	2·0	210	2·0	210	1·6	—	0·4	2·3	13
90	2·5	80	3·6	90	2·9	110	4·3	120	4·0	130	2·8	120	3·1	120	2·4	—	1·3	80	2·2	60	1·8	90	2·5	2·5	14
30	3·9	30	3·0	40	4·0	40	3·6	30	3·9	30	3·0	30	3·9	10	3·4	360	2·1	20	2·6	360	2·1	—	1·2	2·8	15
350	3·6	60	2·2	100	2·0	130	2·4	150	2·6	150	2·6	170	1·7	200	1·7	—	0·9	210	1·6	—	0·8	—	0·8	2·0	16
150	4·3	160	4·6	150	3·9	140	4·1	140	3·3	130	3·6	120	1·9	—	1·0	—	0·8	—	0·4	—	0·4	—	0·4	2·2	17
100	2·5	—	1·3	310	1·6	—	1·4	190	3·2	200	3·9	200	2·6	220	3·3	220	2·5	250	1·8	300	2·0	280	2·5	2·2	18
310	3·9	310	3·9	320	5·4	330	5·7	320	4·3	330	4·3	320	4·7	300	3·3	300	2·6	310	4·3	320	4·3	310	4·6	3·1	19
320	6·5	320	7·6	320	7·3	330	6·2	320	6·5	320	5·7	320	3·3	310	2·0	300	3·0	290	2·5	280	2·0	280	2·0	5·3	20
160	5·0	150	5·1	140	4·5	130	2·4	—	1·2	—	1·2	260	2·9	220	2·9	200	3·0	210	4·1	200	3·0	190	3·2	3·5	21
190	5·5	190	5·5	180	4·8	190	6·9	190	4·6	110	4·0	180	4·8	180	6·1	190	5·0	210	8·6	210	6·1	220	4·3	4·4	22
210	6·1	210	8·6	220	6·2	230	4·3	220	5·4	210	4·1	210	4·5	220	5·1	210	4·9	210	6·1	210	4·9	210	5·3	5·7	23
140	3·7	150	4·3	140	3·3	130	3·6	120	2·8	120	2·8	140	2·0	—	1·2	140	2·0	—	1·3	—	1·3	180	1·7	3·1	24
40	2·8	60	1·8	—	0·8	30	1·7	60	1·8	—	0·8	—	0·8	—	1·2	—	1·2	—	1·4	290	2·2	300	2·3	1·5	25
340	2·8	340	2·8	350	2·8	340	1·6	350	1·8	360	2·1	360	1·7	—	1·1	—	1·4	—	1·3	300	2·3	310	2·6	2·3	26
290	4·0	340	2·4	—	1·4	130	2·4	170	1·7	—	1·4	—	0·8	340	1·9	300	1·6	—	1·3	—	1·3	280	2·5	3·1	27
300	7·9	300	6·6	290	7·6	300	9·0	290	8·2	300	8·9	300	6·9	290	10·1	300	7·2	290	8·2	290	8·2	290	9·3	6·3	28
210	6·1	190	5·0	190	4·6	190	3·6	190	4·6	190	5·0	190	5·0	190	4·6	190	2·8	210	2·0	—	1·2	210	1·6	4·0	29
100	2·0	150	3·0	90	2·5	70	2·4	40	2·8	40	1·9	—	1·2	—	0·8	—	0·8	—	0·8	—	1·2	—	0·8	1·5	30
110	2·4	120	2·4	120	3·6	110	2·4	130	3·6	130	1·9	140	2·0	140	1·6	—	0·9	—	0·4	180	2·1	—	0·4	1·7	31
—	4·6	—	4·7	—	4·3	—	4·3	—	4·0	—	3·5	—	3·2	—	3·1	—	2·7	—	2·9	—	2·6	—	2·6	3·4	

August, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23		24		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
140	5·4	160	4·6	160	5·0	160	5·0	160	4·6	160	5·5	160	3·2	150	3·4	160	2·2	170	3·1	180	2·1	160	2·8	2·7	1
90	2·9	110	3·6	110	3·6	110	4·0	120	2·4	110	3·1	120	2·4	110	1·9	100	1·6	—	1·3	—	1·2	—	1·2	2·1	2
100	2·9	110	2·8	100	2·5	80	1·8	60	1·8	—	1·3	—	1·4	—	1·1	—	0·8	—	1·3	—	1·2	—	1·1	1·5	3
70	2·8	80	2·9	80	2·9	70	2·8	70	1·9	—	1·4	70	1·9	—	1·1	—	0·8	—	0·8	—	0·4	—	0·8	1·5	4
90	2·2	90	2·5	80	2·2	100	2·9	—	1·1	—	1·2	120	1·6	—	1·2	—	0·8	—	0·4	—	0·8	—	0·4	1·3	5
340	5·5	330	4·0	340	5·5	340	6·2	350	6·4	340	4·3	320	4·3	330	3·6	320	6·2	320	8·7	320	7·9	300	5·2	3·6	6
310	5·6	330	5·4	320	4·7	350	5·5	330	4·3	340	3·6	360	3·5	340	1·9	320	2·5	300	2·3	300	1·6	290	2·9	4·4	7
350	9·7	340	9·0	350	11·5	340	10·7	340	8·3	340	8·6	340	8·3	340	5·5	340	5·5	330	5·4	340	4·7	330	5·4	7·2	8
320	8·7	330	8·3	330	8·3	330	6·8	330	5·1	340	4·0	330	1·8	—	1·0	—	0·9	—	1·3	—	0·9	—	0·4	5·7	9
10	4·3	340	6·2	340	5·2	340	5·9	330	3·6	330	4·3	310	3·0	300	2·3	300	2·0	280	2·5	280	2·5	290	3·6	2·6	10
360	1·7	120	1·6	—	1·4	160	1·8	—	0·8	320	3·3	310	3·3	290	4·0	300	3·6	300	3·0	290	2·5	290	2·2	2·8	11
—	1·3	130	1·9	—	1·3	110	1·9	—	0·9	—	1·4	—	1·2	—	0·8	—	0·4	—	0·7	—	0·3	—	1·0	2·1	12
140	5·7	130	4·0	140	3·7	130	3·1	120	3·6	130	4·3	130	4·3	120	2·8	130	2·8	140	2·9	130	3·6	120	3·6	3·0	13
90	7·3	90	6·5	90	5·1	90	5·7	80	5·1	80	3·6	80	3·3	70	2·4	60	1·8	—	1·3	300	1·6	300	2·0	4·0	14
110	4·0	100	4·1	100	3·3	120	3·6	130	2·4	140	2·5	160	4·2	150	2·1	160	2·8	150	1·7	—	1·3	140	1·6	2·7	15
70	4·3	60	4·0	70	5·2	90	4·7	70	4·3	80	4·0	90	3·6	80	2·5	90	3·6	80	4·0	70	4·0	50	4·0	3·6	16
40	5·5	40	5·9	40	6·7	30	6·0	30	5·6	30	2·1	20	2·1	—	1·4	330	1·8	330	1·8	310	1·6	290	2·5	3·7	17
—	1·2	100	2·4	90	2·5	80	2·9	50	2·5	40	3·6	50	2·2	40	1·9	50	2·2	50	2·9	50	1·8	—	1·2	2·2	18
90	6·2	80	7·3	80	7·6	80	7·6	80	7·3	70	5·5	70	7·1	60	7·9	70	7·9	70	7·9	60	7·9	40	7·9	5·3	19
30	6·8	30	6·0	10	7·3	10	7·7	20	6·0	10	7·3	360	7·5	340	6·7	330	5·7	330	5·7	330	5·7	330	5·4	8·5	20
330	7·3	330	6·8	330	6·5	330	5·7	340	5·9	340	5·5	340	4·7	330	4·7	330	4·0	330	4·0	310	3·0	300	4·6	6·0	21
310	5·9	320	7·3	320	7·3	330	6·8	340	6·2	330	5·1	310	3·9	290	4·7	290	4·3	290	4·0	290	3·6	300	4·3	5·0	22
330	6·2	320	5·1	330	5·4	320	6·8	320	5·7	320	5·4	310	4·9	320	4·0	300	3·3	290	3·3	290	3·3	290	4·0	4·9	23
350	4·6	330	3·6	340	4·3	350	3·6	340	4·0	330	3·3	330	2·2	300	1·6	290	2·2	300	2·0	290	2·2	290	1·8	3·8	24
90	2·5	100	3·3	120	2·8	130	3·1	140	2·5	150	2·1	180	1·7	210	1·6	—	0·8	—	1·1	—	0·9	—	1·1	2·5	25
130	4·0	160	5·0	160	5·0	170	4·4	180	4·0	150	2·6	180	2·7	180	2·1	180	3·4	190	2·2	200	2·1	—	0·8	2·5	26
180	5·2	190	4·2	190	4·2	190	4·6	200	3·4	190	4·6	190	5·5	200	3·9	190	3·6	190	2·2	—	1·3	160	1·8	2·9	27
160	7·8	160	7·3	170	6·5	170	3·5	170	4·4	170	3·5	170	2·7	—	1·0	—	1·1	—	0·8	—	0·8	—	0·4	3·3	28
110	4·0	100	4·1	100	4·1	90	2·7	80	2·2	—	1·1	—	0·4	—	0·4	—	1·0	290	2·5	300	3·3	290	3·6	2·2	29
40	3·6	60	2·9	70	4·0	70	3·6	60	2·9	—	1·3	—	1·2	300	2·0	290	2·2	290	2·5	290	2·9	290	2·2	3·0	30
110	3·6	110	4·0	120	3·6	140	2·5	150	2·1	150	2·1	180	2·7	—	1·3	300	2·0	290	2·5	290	3·6	300	3·3	2·7	31
—	4·8	—	4·7	—	4·8	—	4·6	—	3·9	—	3·6	—	3·3	—	2·7	—	2·7	—	2·8	—	2·6	—	2·7	3·5	

Direction expressed in degrees from North ($E = 90°$, $S = 180°$, $W = 270°$, $N = 360°$): Speed in metres per second.

147. Aberdeen: Robinson anemograph from July, 1930. H_a (height of anemograph above M.S.L.) = Height of ground above

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	290	3·3	290	2·2	290	2·5	290	2·2	—	1·4	—	0·9	—	1·3	—	1·3	—	1·1	—	1·1	—	1·1	110	1·9
2	80	4·3	80	4·7	70	4·3	80	6·8	80	7·9	70	9·5	70	10·2	60	9·0	50	10·4	60	11·6	60	11·6	50	11·2
3	340	4·0	340	4·0	340	4·3	330	3·3	330	3·3	330	3·3	340	2·8	350	5·0	360	4·8	20	5·1	30	6·8	40	8·6
4	340	4·0	340	5·9	340	4·3	340	4·3	340	4·0	340	5·5	340	5·9	350	7·8	360	10·5	10	7·7	10	8·1	30	8·1
5	350	6·0	340	5·2	340	5·9	340	4·7	330	4·7	340	5·5	330	4·7	330	5·1	340	5·5	340	7·4	340	7·4	350	8·3
6	290	5·4	300	3·9	300	4·9	290	4·7	300	5·2	300	5·9	300	5·9	300	5·9	300	7·2	300	6·6	320	6·5	310	5·9
7	290	2·5	300	3·6	290	3·3	300	2·6	300	2·0	300	3·9	300	3·9	310	5·2	300	5·9	300	4·9	310	4·9	300	4·9
8	250	1·8	230	1·8	—	1·4	240	2·9	250	4·0	270	2·6	260	4·0	290	6·8	300	4·9	310	4·6	330	2·9	310	3·0
9	300	2·6	290	2·9	280	4·1	290	4·3	290	4·0	280	3·7	290	5·1	310	5·9	300	5·9	320	5·1	320	6·8	320	5·1
10	280	2·9	290	2·9	290	2·9	280	3·7	290	3·6	280	3·7	290	3·6	290	3·3	300	2·0	310	3·3	300	3·0	310	3·0
11	280	2·0	280	2·9	280	1·6	—	1·4	—	1·4	250	2·9	250	1·8	230	3·3	240	4·3	240	3·6	290	5·0	290	5·7
12	290	3·3	300	3·0	290	3·3	290	3·6	290	3·3	290	4·3	290	3·3	320	2·2	360	4·8	10	4·3	360	4·4	360	5·7
13	290	2·9	290	3·3	290	2·9	290	3·3	290	3·3	290	3·3	290	3·6	290	4·0	300	3·9	300	4·6	310	3·6	300	3·0
14	210	2·5	200	2·6	210	2·5	210	2·0	220	1·8	—	0·8	—	0·4	—	0·4	—	0·3	—	1·4	160	2·2	140	3·3
15	—	0·9	—	0·4	—	1·4	—	1·1	—	0·8	—	0·4	—	1·2	—	0·9	—	0·8	100	1·6	90	1·8	100	2·0
16	—	1·3	—	0·8	—	0·4	—	0·8	—	1·1	—	1·4	220	2·5	200	2·6	210	2·5	220	2·9	210	3·3	210	2·9
17	200	3·0	190	1·8	180	2·1	200	3·4	260	1·8	200	2·1	230	3·3	—	1·4	—	1·4	—	0·8	120	1·6	130	1·9
18	290	2·2	280	2·0	280	2·5	290	3·3	270	2·1	—	1·1	—	1·2	—	1·2	—	0·4	—	1·3	—	1·4	—	1·4
19	—	0·3	290	1·8	290	2·2	290	3·3	300	3·6	300	2·6	300	3·9	300	4·9	320	6·2	300	6·2	300	4·9	300	4·6
20	260	2·5	280	3·3	290	3·3	250	2·5	260	2·5	280	2·0	270	3·4	280	5·4	300	5·9	300	6·6	290	9·0	330	4·7
21	290	4·0	300	4·3	300	3·9	290	4·0	300	3·9	300	3·0	310	3·0	310	3·6	330	3·6	340	5·2	340	5·9	350	6·0
22	280	2·9	290	1·8	290	2·9	280	3·3	280	1·6	—	1·3	270	2·6	280	4·9	300	4·9	310	5·9	310	6·2	320	7·3
23	330	4·3	330	4·0	330	4·7	330	3·6	330	4·3	330	4·3	340	5·2	330	4·3	330	6·2	340	5·9	340	5·2	330	5·7
24	350	4·2	350	4·2	350	4·1	340	4·0	340	3·1	320	4·0	300	3·6	310	3·3	330	3·3	350	5·0	340	4·0	350	5·0
25	290	2·2	290	4·3	290	3·6	290	4·7	300	4·6	300	4·6	300	5·2	310	4·6	310	5·9	320	5·1	320	4·7	320	4·0
26	300	2·6	300	3·6	290	4·0	290	4·7	290	4·3	290	3·6	290	2·9	310	1·6	340	1·6	—	1·4	—	1·4	—	1·4
27	230	2·5	230	3·3	240	3·3	250	3·6	260	3·3	270	2·1	270	3·4	280	5·7	280	4·1	280	5·7	280	8·6	280	7·4
28	290	5·1	290	5·4	290	5·7	290	4·3	300	3·9	300	3·9	300	3·3	300	3·9	290	5·7	300	5·6	300	5·2	300	4·9
29	210	1·6	—	1·1	—	1·3	—	0·8	—	0·9	180	1·7	220	2·2	—	1·3	210	1·6	200	2·1	200	3·9	180	6·1
30	200	5·1	190	4·2	180	4·0	180	4·4	190	5·0	180	4·4	170	4·8	180	4·8	180	5·2	180	5·7	170	5·7	170	6·5
Mean	—	3·1	—	3·2	—	3·3	—	3·4	—	3·2	—	3·3	—	3·6	—	4·0	—	4·4	—	4·6	—	4·9	—	5·0

148. Aberdeen: H_a = 13 metres + 23 metres.

Hour.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	180	6·5	190	5·0	180	4·0	200	3·4	200	5·1	210	4·5	200	4·3	210	4·1	200	4·7	210	6·5	200	7·3	200	8·1
2	210	4·5	210	7·7	210	7·4	210	6·1	230	4·0	260	2·9	290	2·2	280	4·9	260	3·3	250	5·7	250	7·3	260	7·6
3	250	5·7	260	5·4	280	7·4	280	7·7	270	4·7	280	6·5	260	3·3	270	7·3	270	6·0	290	7·3	290	8·2	280	7·4
4	180	4·4	190	6·4	190	6·4	180	4·0	180	4·4	200	6·0	180	3·5	180	4·0	190	3·2	250	4·4	270	7·3	260	4·4
5	210	5·7	230	7·9	230	8·7	220	6·2	210	7·4	220	6·8	220	7·3	210	7·4	220	4·0	250	6·2	250	6·2	290	6·2
6	—	1·3	200	1·7	180	2·1	170	3·1	200	4·3	190	4·6	180	4·8	180	5·2	180	6·1	190	6·4	180	5·7	180	5·2
7	250	2·2	280	2·5	270	1·7	—	0·9	—	1·1	270	1·7	240	2·2	240	2·9	250	3·3	250	3·3	250	4·3	250	4·3
8	210	3·3	250	5·1	250	5·7	250	5·1	250	5·4	250	4·3	270	6·8	240	3·6	270	5·1	270	5·1	280	7·0	280	5·7
9	220	6·8	210	4·9	210	7·0	220	7·3	200	5·1	190	7·3	190	6·4	190	8·3	200	4·7	180	6·1	180	6·5	200	6·0
10	220	2·2	230	2·9	210	2·5	210	3·3	210	2·0	220	2·5	220	2·5	210	2·9	220	2·5	190	3·2	190	3·6	210	3·7
11	160	4·2	210	6·1	210	5·7	210	6·1	210	5·4	210	4·5	220	4·0	250	4·7	280	2·9	230	1·8	260	2·5	250	2·9
12	—	1·1	—	0·4	—	0·8	—	1·3	220	1·8	—	0·9	—	1·3	150	3·4	150	5·6	180	5·7	180	5·7	180	6·9
13	270	2·1	220	2·2	—	1·2	190	1·8	250	3·3	250	2·5	230	2·5	240	2·9	240	3·6	270	3·4	290	4·3	280	4·9
14	300	3·0	300	3·3	300	2·3	290	2·2	290	2·2	280	2·5	290	2·9	300	1·6	290	4·0	290	4·0	300	4·9	310	3·0
15	—	1·0	—	0·8	—	0·4	—	0·4	—	0·4	260	1·8	—	1·1	—	1·4	230	2·5	230	1·8	170	3·1	160	3·6
16	—	1·3	—	0·9	280	1·6	—	1·1	—	1·1	—	1·3	—	1·3	—	1·4	—	0·4	—	0·4	—	0·8	130	1·9
17	280	3·3	280	2·0	280	2·5	290	2·5	280	2·5	300	2·3	—	1·4	280	1·6	—	0·8	290	2·5	290	1·8	—	1·3
18	350	3·2	350	3·2	360	3·1	350	3·2	340	1·9	—	1·4	360	1·7	—	0·7	—	0·4	110	1·9	160	2·2	190	3·2
19	240	3·3	240	3·3	250	2·9	240	2·2	240	2·9	210	2·9	210	3·3	210	2·5	220	2·9	250	3·3	250	3·6	270	4·3
20	320	10·1	320	7·6	320	7·6	320	11·6	300	11·5	300	11·1	300	11·1	310	10·8	320	10·1	310	8·5	320	10·8	310	9·5
21	300	4·6	310	3·3	300	3·3	300	4·6	310	4·6	300	5·9	290	4·0	320	4·3	300	5·2	310	4·6	320	5·4	310	4·3
22	250	4·7	240	4·0	230	3·6	230	4·3	250	3·3	—	1·4	200	3·0	220	2·9	220	2·9	230	3·6	210	2·0	—	1·1
23	300	3·3	300	2·6	290	1·8	—	1·1	—	1·1	—	1·1	280	2·0	280	1·6	280	2·5	300	3·6	300	2·6	300	2·0
24	340	6·7	360	12·3	10	10·7	360	7·9	350	9·2	340	5·9	340	6·7	330	5·4	330	4·3	330	5·7	340	6·2	330	5·1
25	310	4·9	300	4·9	290	5·7	300	5·2	290	6·5	300	5·9	290	6·2	290	6·5	290	4·7	290	6·7	300	4·9	300	5·9
26	240	1·8	250	2·2	—	1·4	240	2·2	—	1·4	—	1·4	—	1·4	—	0·8	—	1·1	220	2·2	200	2·1	210	2·5
27	210	6·5	210	7·4	210	8·3	210	9·4	210	12·6	220	8·0	220	8·7	220	6·8	220	7·6	230	5·7	240	8·3	230	7·3
28	250	2·9	260	3·6	250	3·6	240	1·8	280	2·0	290	5·1	290	5·4	300	6·6	300	6·6	300	9·2	310	8·9	300	7·2
29	290	2·9	290	3·3	290	3·6	280	2·5	280	2·5	290	3·7	290	2·5	—	1·4	290	1·8	270	2·1	260	1·8	—	0·8
30	310	4·3	330	4·7	320	5·1	310	4·3	290	4·7	290	5·1	300	6·2	310	6·2	300	5·9	300	4·3	300	4·9	300	5·6
31	230	2·2	—	1·1	—	1·4	—	1·4	—	0·9	—	1·3	—	1·4	—	0·3	—	0·4	—	0·4	—	0·4	—	0·8
Mean	—	3·9	—	4·2	—	4·2	—	4·0	—	4·0	—	4·0	—	3·9	—	4·0	—	3·8	—	4·4	—	4·9	—	4·6
Hour.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 13 metres + 23 metres.

September, 1931.

13. °	13. m/s.	14. °	14. m/s.	15. °	15. m/s.	16. °	16. m/s.	17. °	17. m/s.	18. °	18. m/s.	19. °	19. m/s.	20. °	20. m/s.	21. °	21. m/s.	22. °	22. m/s.	23. °	23. m/s.	24. °	24. m/s.	Mean m/s.	Day
120	1·6	—	1·2	130	1·6	120	1·6	90	1·8	60	2·2	70	2·8	90	2·5	80	2·9	70	4·0	70	4·7	80	4·3	2·1	1
40	9·5	30	10·3	50	9·8	40	11·8	40	11·0	30	8·6	360	6·9	350	6·9	350	6·9	350	5·5	350	6·4	340	4·7	**8·3**	2
40	9·5	40	10·2	40	7·9	30	6·0	10	6·4	10	5·6	350	5·5	340	3·6	340	3·9	340	4·0	340	3·6	340	4·3	5·3	3
20	7·7	20	8·1	20	6·0	10	7·3	360	9·6	350	9·7	340	5·9	330	5·1	330	5·4	340	5·5	340	4·7	340	6·7	6·5	4
340	9·0	340	7·1	340	7·9	340	7·4	330	5·4	330	5·4	330	4·7	310	3·9	310	4·3	310	4·6	310	4·3	300	4·9	5·8	5
320	6·8	320	7·6	310	6·6	320	6·2	320	5·1	310	3·0	300	3·0	290	2·9	290	3·6	300	3·3	290	2·9	300	3·6	5·1	6
300	5·9	300	3·9	320	5·1	320	5·4	310	3·3	290	4·0	290	2·5	260	2·2	—	1·4	270	1·7	270	1·7	240	1·8	3·6	7
310	2·0	90	1·8	190	2·2	—	1·1	—	0·8	290	1·8	320	3·6	340	4·7	320	3·6	310	3·9	300	4·6	300	3·6	3·1	8
300	5·2	300	3·0	320	4·3	330	4·3	340	3·1	320	2·9	300	2·0	290	2·2	290	2·9	290	2·2	290	2·5	290	2·5	3·9	9
300	3·0	320	4·7	330	4·3	330	3·6	310	3·0	290	1·8	280	1·6	280	2·5	150	1·8	—	0·8	—	1·4	—	0·8	2·8	10
310	5·2	310	2·6	340	3·6	350	3·6	350	4·2	340	1·9	310	1·6	300	2·6	290	2·5	290	3·6	290	3·3	290	3·3	3·0	11
360	5·2	350	6·4	350	6·0	340	5·2	340	5·2	330	3·3	310	2·6	290	3·3	290	3·3	290	3·3	290	3·3	290	2·5	4·0	12
320	2·2	310	1·6	360	3·1	30	3·5	70	3·1	100	1·6	120	1·6	—	1·3	160	1·8	—	1·3	200	1·7	200	1·7	2·8	13
170	4·0	180	4·4	190	4·6	190	4·2	190	2·8	—	1·4	—	0·4	—	0·8	—	0·8	—	1·1	—	1·3	—	1·1	2·0	14
90	2·2	100	3·3	110	4·0	110	3·6	110	1·9	60	1·8	40	1·6	360	1·7	350	2·2	360	3·1	330	2·5	290	1·8	1·8	15
200	2·6	200	3·4	190	2·8	180	3·1	180	4·4	190	4·2	190	4·6	210	4·1	260	1·8	—	0·9	220	3·3	210	3·7	2·5	16
120	1·6	140	2·5	170	2·7	—	1·3	120	2·4	—	1·3	—	0·4	10	2·4	—	1·3	—	1·1	—	1·2	300	1·6	1·9	17
—	0·9	—	0·8	—	1·1	40	1·9	30	2·1	—	1·3	—	1·3	—	0·8	—	0·8	—	0·8	—	1·3	300	2·0	**1·5**	18
310	5·9	320	5·7	310	5·6	310	4·6	300	3·9	—	1·3	—	1·3	280	2·0	280	1·6	270	1·7	—	1·4	270	2·1	3·4	19
340	6·7	330	6·5	330	5·4	330	4·7	330	4·7	320	2·9	330	3·6	310	2·6	300	3·6	290	3·3	300	3·3	300	3·0	4·2	20
350	6·4	340	5·5	350	6·4	350	5·0	340	3·1	330	2·5	320	1·8	290	3·3	290	2·9	290	2·9	280	2·9	290	2·9	4·0	21
330	6·2	330	5·7	320	6·8	320	9·0	330	5·7	340	5·2	320	5·1	320	5·1	310	5·6	310	6·9	330	4·3	340	5·2	4·8	22
330	5·4	330	5·1	330	4·7	340	4·3	340	4·7	340	4·7	330	3·6	340	4·0	330	3·3	330	4·0	330	4·7	340	4·3	4·6	23
330	3·6	350	3·6	350	2·8	350	4·6	350	3·6	340	2·4	320	2·2	300	3·9	290	2·9	290	3·3	300	3·3	300	2·6	3·6	24
320	4·0	320	2·9	340	3·6	350	4·2	350	3·2	340	1·9	320	2·2	330	1·8	340	1·9	320	2·2	310	2·0	300	2·3	3·6	25
120	1·6	120	1·9	120	1·6	—	1·3	—	1·3	—	0·4	—	0·8	—	1·1	240	1·8	—	1·3	—	1·4	240	2·2	2·1	26
290	9·8	280	9·0	280	9·4	290	7·6	300	6·9	290	9·0	290	8·7	290	7·6	280	6·1	280	4·9	280	7·0	280	5·7	6·0	27
290	4·3	320	6·5	310	3·6	300	3·3	300	3·0	320	2·5	290	1·8	280	2·5	—	1·4	250	2·2	—	1·3	—	0·8	3·9	28
180	4·8	160	6·0	170	4·8	180	5·2	180	4·0	180	4·8	190	3·2	190	3·2	210	3·3	210	3·7	200	3·9	200	3·9	3·1	29
180	6·5	160	6·4	170	6·9	170	6·5	160	6·9	160	5·5	170	5·2	170	6·5	180	4·0	170	4·8	180	5·2	180	5·7	5·4	30
—	5·0	—	4·9	—	4·8	—	4·7	—	4·2	—	3·5	—	3·1	—	3·2	—	**3·0**	—	3·1	—	3·2	—	3·2	3·8	

October, 1931.

13. °	13. m/s.	14. °	14. m/s.	15. °	15. m/s.	16. °	16. m/s.	17. °	17. m/s.	18. °	18. m/s.	19. °	19. m/s.	20. °	20. m/s.	21. °	21. m/s.	22. °	22. m/s.	23. °	23. m/s.	24. °	24. m/s.	Mean m/s.	Day
200	7·3	190	5·5	200	10·7	210	10·3	190	7·8	190	7·3	190	6·4	200	5·6	190	6·9	190	4·6	190	5·0	200	6·0	6·1	1
270	12·7	250	7·9	240	7·9	250	9·0	250	8·3	260	7·3	260	8·7	260	4·3	240	3·6	250	6·5	260	5·7	250	5·1	6·3	2
280	6·1	280	5·7	280	3·7	260	2·9	260	2·2	—	1·4	220	2·2	220	2·2	220	1·8	210	2·9	210	3·7	200	2·6	4·8	3
270	5·2	250	3·6	230	1·8	200	2·6	150	2·1	210	4·1	200	3·9	170	4·0	170	3·1	190	5·0	140	4·1	120	2·4	4·2	4
300	3·9	280	7·0	290	5·1	290	3·3	—	0·8	—	1·2	—	1·1	—	1·4	—	1·1	—	0·9	—	0·4	—	1·4	4·5	5
190	5·5	190	6·9	190	6·4	200	4·3	200	4·3	200	3·9	200	4·7	190	6·0	190	3·2	190	2·8	200	1·7	210	2·0	4·2	6
230	4·3	240	4·3	240	4·3	240	4·7	230	2·2	240	2·9	210	2·9	210	2·5	200	2·1	210	2·5	220	2·9	230	2·9	2·9	7
270	4·3	210	1·6	210	2·5	220	3·6	200	3·4	200	3·9	230	4·3	220	4·7	190	5·5	200	3·9	190	3·6	210	4·1	4·5	8
210	6·5	210	5·7	210	5·2	200	3·4	190	2·2	190	2·2	200	2·6	210	1·6	210	1·6	240	2·2	200	3·0	220	2·5	4·8	9
260	3·6	230	3·6	220	4·7	220	4·0	200	3·0	200	3·9	200	3·9	200	5·1	180	4·0	200	1·7	180	3·1	190	5·0	3·3	10
230	2·2	270	5·1	—	1·0	—	1·0	280	2·0	—	0·4	—	1·3	—	1·4	—	1·3	—	1·3	—	1·3	—	1·1	3·0	11
180	6·1	180	5·7	170	4·4	—	1·3	200	9·0	200	7·3	220	7·6	240	3·3	250	4·0	250	2·9	240	2·5	250	2·2	3·8	12
280	7·4	290	5·7	290	6·5	280	5·4	280	6·1	270	6·4	260	5·1	250	4·3	270	5·1	290	6·5	300	6·2	300	4·9	4·3	13
—	1·3	290	2·9	—	0·9	—	1·3	—	0·9	—	1·4	240	1·8	—	1·1	230	1·8	—	1·4	—	1·4	—	0·4	2·3	14
160	4·2	140	3·3	110	3·1	120	1·6	—	1·2	—	0·8	—	1·2	—	1·3	—	1·1	300	2·3	290	2·5	—	1·4	1·7	15
130	1·9	150	2·1	170	1·7	190	1·8	—	1·4	—	1·4	—	1·1	—	1·3	300	2·0	280	1·6	290	2·2	290	2·2	1·4	16
50	1·8	360	3·1	360	2·1	—	1·3	—	0·4	—	1·4	—	1·4	320	1·8	360	3·1	30	2·6	360	2·7	340	2·4	2·0	17
200	3·0	200	3·0	200	3·4	190	3·2	200	3·0	210	3·7	220	3·3	230	2·5	260	2·2	—	1·4	260	1·8	240	2·9	2·5	18
280	6·1	270	6·4	260	4·7	270	6·4	270	4·7	260	3·3	270	6·0	270	6·8	270	6·8	270	6·8	290	9·0	310	8·5	4·6	19
320	10·8	310	10·2	320	10·8	310	8·2	310	7·9	310	7·5	320	6·2	320	6·2	320	6·5	300	4·9	300	4·3	310	5·6	**8·8**	20
300	4·6	290	5·4	300	5·2	290	4·0	280	2·9	280	2·5	290	1·8	270	2·1	270	3·9	280	4·5	270	5·1	260	4·0	4·2	21
230	2·5	240	2·2	—	0·9	—	0·8	250	1·8	250	3·3	240	2·9	250	3·3	240	1·8	260	4·3	280	7·0	280	2·9	3·0	22
300	2·3	320	2·5	320	1·8	340	1·6	—	1·0	280	2·5	290	4·0	290	5·4	300	3·6	300	4·6	300	3·6	310	3·6	2·6	23
320	6·5	320	6·8	300	4·9	300	5·6	310	4·9	300	4·9	310	4·3	310	4·3	300	4·3	310	4·6	310	5·9	290	6·5	6·2	24
310	4·9	300	6·2	300	5·9	290	5·1	280	3·7	280	2·5	280	2·5	—	0·9	—	1·4	270	2·1	—	1·1	260	1·8	4·6	25
210	3·7	200	4·3	200	5·1	210	7·7	210	5·7	200	3·3	210	6·1	210	7·7	200	6·8	210	6·1	200	6·0	200	6·8	3·6	26
230	8·7	240	7·6	220	6·5	220	4·0	210	2·9	210	3·7	220	2·5	250	1·8	250	2·2	240	2·5	240	2·9	230	1·8	6·1	27
310	7·9	320	6·2	310	4·6	320	5·1	310	3·0	310	4·6	300	3·3	300	3·9	290	4·0	290	5·4	290	4·0	280	4·9	4·9	28
270	1·7	—	0·3	—	0·4	—	0·4	—	0·3	—	0·9	250	2·9	310	3·9	290	3·3	300	3·3	320	4·0	320	4·3	2·3	29
290	4·3	310	3·6	290	5·4	310	3·9	290	4·0	290	2·5	280	4·5	290	2·2	—	1·4	—	1·4	—	1·4	230	1·8	4·1	30
—	1·3	—	1·0	—	0·4	200	1·7	230	2·5	230	2·5	—	1·1	—	1·1	—	1·4	—	1·1	—	0·8	—	1·1	**1·2**	31
—	**4·9**	—	4·7	—	4·3	—	3·9	—	3·4	—	3·4	—	3·6	—	3·4	—	**3·3**	—	3·4	—	3·5	—	3·4	4·0	
13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day

Direction expressed in degrees from North (E = 90°, S = 180°, W = 270°, N = 360°): Speed in metres per second.

149. Aberdeen: Robinson anemograph from July, 1930. H_a (height of anemograph above M.S.L.) = Height of ground above

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	—	0·9	—	0·3	—	1·1	—	1·1	—	1·4	230	1·8	210	3·7	220	3·3	200	3·0	190	3·2	210	4·1	210	5·4
2	190	4·6	180	4·0	170	6·1	160	7·8	190	8·3	200	6·4	180	5·2	180	4·8	190	5·0	190	7·8	180	6·5	190	6·4
3	180	6·5	160	9·7	190	9·2	180	8·3	180	8·3	180	9·2	180	8·3	180	7·5	170	10·0	180	10·0	190	10·1	190	8·3
4	190	5·0	180	3·1	180	4·4	180	3·5	160	3·2	210	1·6	290	3·6	240	2·5	200	3·4	190	4·2	200	5·1	210	8·3
5	—	1·1	230	2·2	220	3·6	230	2·5	260	1·8	230	2·2	210	2·0	180	2·1	190	3·2	200	3·4	190	3·2	160	3·6
6	160	4·2	170	5·2	160	6·0	140	7·0	150	8·1	160	10·1	160	9·2	160	11·1	150	10·3	140	10·6	160	10·1	160	11·5
7	190	4·2	200	3·4	220	2·2	—	0·9	—	0·4	—	0·4	—	0·9	—	0·4	170	1·7	170	4·0	150	4·7	160	5·5
8	150	3·9	190	4·6	200	3·9	200	3·4	200	2·1	200	2·1	210	2·5	160	3·6	140	3·7	140	7·0	140	5·7	140	6·1
9	140	6·1	140	5·7	130	7·1	140	6·5	140	6·1	130	6·2	140	6·1	140	7·0	140	7·0	140	7·0	150	7·7	160	7·8
10	140	7·7	150	3·9	160	2·2	210	1·6	210	2·5	210	2·9	200	3·4	200	1·7	200	2·1	170	4·4	170	5·2	160	5·5
11	130	5·9	120	7·9	130	7·4	140	5·7	150	6·0	150	6·4	140	5·6	140	3·7	130	3·1	120	1·9	120	1·9	—	1·2
12	250	2·9	250	2·5	300	1·6	—	0·8	—	0·8	—	1·1	280	1·6	270	3·4	280	2·9	290	3·6	290	5·1	290	6·2
13	—	0·8	—	0·9	280	2·0	280	2·5	—	1·1	—	1·3	—	1·3	—	0·8	—	1·0	—	1·3	—	1·4	190	2·2
14	180	6·9	180	7·9	180	6·5	170	7·5	160	6·9	180	6·1	190	5·5	170	5·7	180	6·1	170	5·7	170	6·5	180	3·1
15	—	1·1	—	0·4	—	0·3	—	1·3	—	0·4	—	0·9	300	2·0	280	2·9	—	1·1	310	1·6	—	1·3	—	1·3
16	290	1·8	—	0·4	—	0·3	290	2·2	—	1·1	—	0·4	—	0·8	—	1·4	—	1·1	—	0·8	—	0·9	200	2·6
17	170	6·1	170	6·1	200	3·0	200	2·6	200	1·7	190	2·8	190	3·2	170	4·8	170	6·5	170	7·5	170	8·3	180	7·5
18	170	9·6	170	10·0	170	11·9	170	12·7	160	12·9	160	15·5	160	15·1	160	14·3	160	14·3	170	11·3	170	13·1	170	13·6
19	—	1·3	—	1·1	—	0·0	—	0·0	—	0·4	—	0·3	—	0·0	—	0·8	—	1·4	—	0·9	—	1·4	—	1·4
20	160	6·4	160	6·9	160	7·3	160	9·2	160	6·9	170	6·5	170	7·5	160	7·3	180	6·5	160	9·7	170	8·8	170	8·8
21	190	7·8	200	5·6	210	4·1	220	4·0	210	2·0	250	2·2	210	2·5	190	3·2	200	4·3	200	3·4	200	5·1	200	4·3
22	210	3·3	230	3·3	210	2·5	200	2·6	200	3·0	200	2·1	—	1·4	—	1·3	—	1·2	—	1·4	—	1·4	190	2·2
23	140	10·6	150	12·7	150	14·9	150	14·0	150	15·7	160	14·3	160	12·9	160	12·5	150	10·7	160	11·9	160	13·3	160	12·5
24	180	5·2	190	3·2	230	2·5	300	7·2	310	6·2	300	7·9	300	5·6	300	4·3	280	4·5	270	3·9	270	4·3	—	1·4
25	210	3·3	200	4·3	200	6·8	210	7·4	220	5·1	220	2·9	200	4·3	200	5·6	190	4·6	190	6·4	200	6·4	200	6·4
26	170	9·6	170	9·2	170	8·8	170	9·2	170	8·8	170	6·9	170	7·9	160	8·3	160	8·7	160	8·3	150	6·8	150	8·6
27	—	1·3	—	0·0	—	0·4	—	0·4	210	2·0	220	3·3	200	3·0	210	3·7	200	3·4	200	3·9	180	3·9	170	6·5
28	110	9·0	110	9·5	110	9·0	110	8·3	110	7·9	110	7·9	120	7·9	120	7·4	110	7·4	120	8·3	120	8·3	130	7·9
29	160	11·1	160	9·2	160	8·7	160	9·2	170	8·3	170	6·9	170	5·7	170	6·1	180	5·2	180	5·7	190	5·0	190	4·6
30	—	1·0	—	0·4	—	1·4	—	0·4	—	0·3	—	0·8	280	1·6	—	0·4	280	1·8	290	2·9	290	2·9	270	1·7
Mean	—	5·0	—	4·8	—	4·8	—	5·0	—	4·7	—	**4·6**	—	4·7	—	4·7	—	4·8	—	5·4	—	5·6	—	5·7

150. Aberdeen: H_a = 13 metres + 23 metres.

	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	—	0·8	—	0·8	—	0·0	—	0·9	—	0·9	200	3·4	200	3·4	190	4·6	190	4·2	190	3·2	200	6·4	200	4·7
2	200	2·6	200	1·7	—	1·3	200	3·0	210	4·1	220	6·5	210	5·4	200	6·8	210	6·1	180	4·8	180	3·5	200	7·3
3	190	11·9	180	11·3	190	10·5	180	12·0	170	11·9	170	13·1	170	14·0	160	13·3	170	12·3	200	8·6	200	9·0	200	9·0
4	260	9·8	260	7·3	260	8·7	260	6·8	260	6·2	270	8·6	260	7·6	250	7·3	250	6·2	250	6·2	260	6·8	260	6·5
5	290	10·8	300	10·5	280	9·4	280	7·4	260	6·2	250	5·4	270	6·0	260	4·3	200	2·6	150	1·7	200	4·3	200	4·7
6	—	1·3	—	1·0	300	3·3	290	3·6	290	3·9	300	5·9	300	7·6	290	6·5	290	6·8	290	6·1	280	6·7	270	4·7
7	280	5·4	280	3·7	280	4·5	280	6·5	290	4·7	290	6·2	290	7·6	270	4·3	260	3·6	260	4·3	260	3·3	240	3·3
8	220	5·1	230	4·0	210	3·3	—	0·9	210	2·5	200	2·1	230	3·6	200	4·3	200	3·4	210	3·1	210	3·1	230	5·1
9	240	4·0	260	4·0	260	5·7	250	5·1	260	5·4	260	4·0	280	4·5	280	5·4	280	6·1	280	5·4	290	6·5	300	7·2
10	210	3·1	220	2·1	—	0·8	—	0·3	320	4·0	310	6·6	300	5·6	290	6·2	290	5·4	290	7·3	290	7·6	290	9·8
11	260	1·8	—	0·9	—	1·4	—	1·3	—	1·4	240	2·2	240	2·2	240	1·8	230	2·2	230	2·2	—	1·1	—	1·3
12	190	1·8	200	1·7	230	1·8	250	4·3	230	2·5	250	3·3	260	2·9	260	2·2	260	2·2	250	2·2	310	1·6	—	1·4
13	240	3·6	260	5·4	260	4·0	240	2·5	—	1·4	—	1·4	170	2·1	190	1·8	—	1·4	—	0·4	—	1·0	250	1·8
14	220	4·0	210	3·7	230	6·5	240	4·0	220	4·0	220	3·6	220	5·1	230	3·6	220	2·9	240	3·3	260	4·7	220	2·2
15	310	3·6	320	5·1	300	3·9	300	3·9	300	3·0	320	4·7	300	3·3	300	3·3	300	2·6	340	1·9	320	3·3	310	3·0
16	290	1·8	290	2·2	290	1·8	300	1·6	290	1·8	—	1·3	300	1·6	290	2·9	—	1·4	—	1·4	—	1·3	—	0·8
17	240	1·8	—	1·4	—	1·4	—	1·4	210	1·6	210	1·6	210	1·6	210	1·6	200	1·7	210	1·6	200	2·6	190	1·8
18	200	4·3	200	3·9	—	0·8	—	0·4	—	0·4	—	0·8	—	1·3	—	0·3	240	2·5	240	3·6	230	4·3	230	4·3
19	290	3·3	290	2·9	300	2·3	300	2·6	300	3·0	310	3·0	300	2·6	300	2·0	290	2·3	—	1·4	—	1·1	—	0·7
20	290	2·5	—	1·3	290	2·9	—	1·4	—	0·9	—	0·7	290	2·5	—	1·4	290	2·2	290	2·5	300	2·6	300	2·0
21	—	1·3	—	1·3	—	1·3	140	2·0	130	3·6	140	3·7	140	2·9	130	4·3	130	4·3	130	2·8	140	2·9	140	3·3
22	220	2·5	210	4·5	200	3·9	200	3·0	250	2·5	230	4·3	220	3·6	200	5·1	240	2·5	200	3·4	200	3·9	200	3·9
23	200	8·6	210	8·3	210	9·4	230	7·3	230	13·0	210	9·9	220	9·0	230	10·8	220	5·7	200	4·7	210	3·3	210	3·7
24	170	4·1	200	7·3	200	6·8	200	6·0	210	4·1	220	5·1	240	5·7	210	7·0	210	7·7	200	8·7	190	5·4	220	9·0
25	200	2·1	210	2·9	200	3·4	220	3·6	230	4·0	230	3·6	240	5·4	240	6·2	240	6·2	260	4·7	250	2·5	260	3·6
26	240	3·6	260	4·7	280	2·9	250	1·8	230	2·2	200	1·7	—	0·9	—	1·3	210	2·5	200	3·0	170	1·7	170	1·7
27	250	5·1	250	5·4	250	5·4	230	4·0	250	4·3	260	4·3	250	2·9	240	4·0	250	3·3	210	3·7	230	6·5	250	6·8
28	280	10·3	290	10·5	280	15·6	290	11·2	290	12·7	290	9·3	300	5·9	280	4·1	260	4·3	270	6·0	260	6·8	260	7·3
29	300	5·6	300	4·6	290	6·8	290	7·3	290	9·0	290	10·5	310	9·3	340	8·9	20	9·7	20	9·7	330	6·2	10	7·6
30	300	4·9	300	5·9	310	7·9	320	7·3	320	6·8	320	9·8	320	7·9	330	6·8	320	7·6	310	6·9	310	7·9	310	7·9
31	280	4·5	290	4·3	290	5·4	290	5·7	290	5·1	290	4·7	290	4·7	290	4·3	270	3·4	280	3·3	270	3·4	290	4·0
Mean	—	4·4	—	4·3	—	4·6	—	4·2	—	4·4	—	**4·9**	—	4·8	—	4·7	—	4·4	—	4·1	—	4·2	—	4·5
Annual Mean	—	3·8	—	3·8	—	3·8	—	3·8	—	**3·7**	—	3·9	—	4·1	—	4·4	—	4·5	—	4·9	—	5·1	—	5·2

Averages for periods of sixty minutes centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = **13** metres + **23** metres.

November, 1931.

13. °	13. m/s.	14. °	14. m/s.	15. °	15. m/s.	16. °	16. m/s.	17. °	17. m/s.	18. °	18. m/s.	19. °	19. m/s.	20. °	20. m/s.	21. °	21. m/s.	22. °	22. m/s.	23. °	23. m/s.	24. °	24. m/s.	Mean m/s.	Day
220	4·3	220	4·0	200	6·0	200	6·0	140	2·0	200	4·3	200	8·1	200	6·8	210	8·3	220	4·0	210	6·5	190	6·9	3·9	1
190	5·5	220	4·3	240	3·3	200	6·4	200	6·0	200	3·9	200	5·1	210	2·0	190	4·2	190	7·3	190	7·3	190	7·3	5·7	2
190	7·3	200	8·6	200	7·3	190	5·5	190	9·2	210	7·7	210	6·5	200	7·3	220	6·8	260	2·9	210	7·4	190	3·6	7·8	3
210	8·3	230	6·8	210	9·4	220	8·7	220	7·6	220	7·6	250	9·0	260	6·2	240	2·9	220	2·9	—	1·4	240	4·0	5·1	4
170	4·8	180	4·4	190	3·6	190	3·2	250	1·8	—	0·8	—	1·1	—	0·9	210	2·0	200	2·6	200	1·7	180	1·7	2·5	5
160	10·1	160	10·1	160	10·1	160	11·1	160	8·7	150	8·6	160	8·3	160	8·7	160	8·3	170	6·5	170	6·5	180	6·1	8·5	6
130	3·6	120	3·1	100	3·3	90	4·7	70	4·8	40	4·3	50	6·2	100	7·7	100	7·4	100	7·0	120	6·7	120	5·2	3·9	7
140	5·7	140	6·5	150	7·3	160	4·2	140	7·4	140	6·1	140	6·1	150	6·8	140	5·7	160	7·3	150	5·1	140	6·5	5·1	8
150	8·1	150	8·1	140	8·3	140	8·6	130	7·9	130	9·8	130	9·5	130	7·9	130	7·9	130	7·9	140	4·5	130	7·9	7·3	9
140	7·4	140	7·0	140	7·4	140	8·3	140	8·6	140	8·6	140	9·0	140	7·0	130	8·3	140	7·7	140	7·7	140	6·2	5·7	10
—	1·2	300	1·6	300	2·3	270	1·7	—	0·8	—	0·3	—	1·4	270	1·7	—	1·1	—	1·4	—	1·1	—	1·1	3·1	11
290	6·2	300	4·3	310	4·3	290	2·9	260	2·0	260	2·0	270	3·4	260	1·8	250	2·2	250	1·8	260	2·2	280	1·6	2·8	12
190	4·2	200	3·4	190	4·2	200	3·0	190	3·6	170	6·1	180	6·1	170	6·1	180	6·5	170	6·1	170	6·5	160	8·3	3·2	13
180	4·4	170	4·8	180	4·8	170	5·7	170	5·2	160	6·4	170	5·7	180	4·8	170	3·1	190	1·8	—	0·3	160	1·8	5·3	14
300	2·0	290	2·2	300	2·0	—	0·3	—	0·0	—	0·9	—	1·1	—	0·4	—	0·9	—	1·4	—	0·9	290	1·6	**1·2**	15
200	2·6	210	1·6	—	1·3	—	0·9	—	1·3	—	1·3	—	1·4	160	5·0	160	4·6	160	6·0	160	6·0	160	6·9	2·1	16
180	8·3	180	7·5	180	7·5	170	7·9	170	8·3	170	7·9	170	9·2	170	8·8	170	9·6	170	9·2	170	8·3	170	8·8	6·7	17
170	10·0	170	10·5	190	8·3	190	6·4	200	4·7	200	4·7	190	3·6	210	2·0	190	1·8	170	2·1	180	2·7	200	1·7	9·0	18
—	1·3	190	2·2	210	2·9	200	3·0	—	0·8	190	2·2	160	6·4	170	6·1	160	6·4	160	7·8	150	7·7	150	7·3	2·5	19
170	9·2	170	9·2	160	10·5	160	9·7	170	9·2	160	12·5	160	11·1	170	10·9	180	7·9	190	6·9	190	8·2	190	7·8	8·5	20
200	3·9	180	3·5	220	2·2	210	4·9	210	2·0	220	1·8	200	2·6	210	2·5	230	2·5	210	2·5	220	2·5	220	3·3	3·5	21
210	3·3	210	2·9	180	2·7	190	2·8	190	2·8	170	4·0	170	6·9	160	7·3	160	7·8	140	10·1	160	12·5	150	12·4	4·0	22
160	12·5	170	10·9	170	10·5	170	9·6	170	8·3	170	7·5	160	7·8	160	8·3	170	7·5	170	6·9	160	7·3	170	6·5	**10·9**	23
210	2·0	200	3·0	190	2·8	190	2·8	220	1·8	210	4·9	200	6·0	190	5·0	190	6·9	180	6·1	200	4·7	210	3·7	4·5	24
200	5·1	200	5·1	200	4·3	200	1·7	—	1·0	180	3·1	190	2·8	170	4·0	160	5·5	130	5·9	160	8·7	170	8·3	4·9	25
140	10·3	140	9·9	140	9·9	140	9·4	140	10·6	140	10·6	150	10·6	140	10·3	140	10·3	130	9·0	130	9·8	140	6·5	9·1	26
140	7·0	140	6·5	130	8·3	120	7·9	120	9·8	120	9·5	120	8·6	120	10·2	120	8·6	110	8·3	110	9·5	110	9·8	5·6	27
130	9·5	130	8·6	140	7·4	140	7·7	140	8·3	140	7·0	150	8·1	140	8·3	150	8·6	160	8·7	160	7·3	160	9·7	8·3	28
190	4·2	190	4·2	190	3·2	210	2·5	210	2·5	200	1·7	230	1·8	—	1·1	—	0·3	—	1·8	—	1·4	—	0·3	4·8	29
—	1·3	—	1·1	—	0·8	—	1·3	—	1·3	280	1·6	280	1·6	—	1·4	—	0·9	—	1·3	—	0·9	—	1·1	1·2	30
—	5·8	—	5·5	—	5·5	—	5·3	—	4·9	—	5·3	—	**5·8**	—	5·6	—	5·5	—	5·4	—	5·4	—	5·5	5·2	

December and Year, 1931.

13. °	13. m/s.	14. °	14. m/s.	15. °	15. m/s.	16. °	16. m/s.	17. °	17. m/s.	18. °	18. m/s.	19. °	19. m/s.	20. °	20. m/s.	21. °	21. m/s.	22. °	22. m/s.	23. °	23. m/s.	24. °	24. m/s.	Mean m/s.	Day
190	4·6	180	3·5	190	4·2	190	4·6	190	4·2	200	4·3	210	3·7	230	4·0	230	3·6	220	2·9	230	3·6	220	2·9	3·3	1
190	7·8	190	6·5	200	7·7	180	6·1	180	5·2	180	6·9	180	8·8	170	9·2	170	8·8	170	10·9	180	10·5	190	9·2	6·1	2
210	7·7	210	9·9	220	9·4	230	4·7	250	7·6	260	8·7	260	8·7	250	8·7	250	6·8	250	7·3	260	7·6	250	7·3	**9·7**	3
260	4·3	240	4·3	—	1·2	250	2·9	270	3·9	250	2·2	280	3·7	270	4·7	260	4·3	260	3·6	260	5·1	290	7·3	5·6	4
210	6·1	220	7·9	210	9·0	240	10·1	240	7·6	250	7·3	240	7·6	230	6·5	240	5·1	190	3·2	—	0·8	—	1·3	6·2	5
270	5·1	260	6·2	270	4·7	250	4·0	240	4·0	260	4·7	260	5·1	260	4·0	270	5·5	290	6·8	280	7·4	280	9·9	5·0	6
250	3·3	260	2·2	—	1·3	200	2·1	200	2·1	210	4·1	210	4·9	200	3·9	200	4·3	200	4·7	210	7·0	220	6·2	4·4	7
240	3·3	240	4·0	240	3·6	240	4·0	240	4·0	220	2·5	210	3·1	210	4·5	200	3·9	230	3·6	240	2·9	240	3·3	3·5	8
300	4·6	320	4·3	290	6·5	280	3·7	280	4·1	280	3·3	270	3·0	260	3·6	—	1·1	—	0·4	220	2·2	230	2·5	4·3	9
300	11·1	300	5·2	—	1·3	240	2·2	280	4·1	290	4·7	300	5·2	—	1·1	—	0·9	—	1·1	260	1·8	—	0·4	4·1	10
200	2·1	250	2·5	240	2·5	230	1·8	—	0·8	—	0·3	290	2·9	250	1·8	210	2·0	200	4·3	190	1·8	200	2·1	1·8	11
130	1·6	—	1·1	—	0·3	250	4·3	250	5·7	200	6·4	250	5·4	260	6·2	260	4·0	270	3·0	240	1·8	—	1·1	2·9	12
300	2·0	300	1·6	—	1·0	—	0·7	—	1·4	230	1·8	—	0·3	—	1·1	230	2·2	220	2·5	210	2·5	210	3·7	1·9	13
250	4·7	230	3·6	190	2·2	260	4·3	260	6·5	200	1·7	270	6·2	270	5·6	290	6·8	310	6·6	310	4·6	310	4·3	4·3	14
340	3·1	350	2·8	350	3·2	340	2·8	340	2·4	330	2·2	300	2·3	310	2·0	330	2·2	330	2·2	290	1·8	290	2·2	3·0	15
—	1·3	—	1·4	—	0·9	—	0·9	—	0·8	—	0·7	—	1·3	—	0·9	—	1·3	—	1·4	240	1·8	240	1·8	**1·4**	16
190	1·8	200	2·1	190	2·0	190	2·5	190	3·3	200	3·0	200	3·9	200	4·7	210	4·5	210	5·4	210	4·9	200	4·7	2·6	17
220	3·3	210	3·3	200	3·0	200	1·7	240	1·8	—	1·1	—	0·8	270	3·0	290	4·3	290	3·3	290	3·6	290	3·6	2·5	18
—	0·3	—	0·3	—	0·3	260	1·7	300	1·8	—	1·0	290	2·2	290	2·2	290	3·3	290	1·8	290	2·2	280	2·0	2·0	19
300	2·0	290	1·6	—	1·3	—	1·3	—	1·3	—	1·0	—	1·3	290	1·6	—	1·3	—	1·3	—	0·3	—	0·3	1·6	20
140	3·7	170	1·7	—	1·3	—	1·1	200	3·0	210	2·9	210	3·3	220	2·9	210	4·5	210	4·1	210	4·1	220	2·5	2·8	21
220	5·1	210	2·5	210	3·7	200	4·7	210	4·1	190	3·6	210	4·1	210	3·3	210	4·9	200	5·1	200	4·7	200	8·6	3·9	22
210	2·9	220	3·3	210	3·7	200	3·0	200	3·4	190	3·2	210	4·5	200	6·0	200	5·6	190	6·0	200	6·0	190	4·2	6·1	23
220	7·9	230	7·6	240	7·6	260	7·6	260	5·4	250	6·2	260	6·2	270	5·1	260	6·2	260	5·1	230	4·7	200	3·9	6·3	24
260	2·5	260	3·6	260	2·5	—	1·4	250	2·9	250	3·3	260	4·0	220	2·2	240	2·5	240	3·6	230	2·5	250	2·2	3·4	25
220	4·0	240	4·7	270	4·7	200	1·7	230	5·4	250	4·3	240	4·0	250	5·0	250	4·3	250	5·1	230	3·6	240	4·7	3·3	26
210	5·4	220	4·7	220	2·9	230	6·2	220	7·9	210	7·4	230	8·7	230	6·5	260	8·3	260	10·1	280	13·9	290	11·5	6·1	27
280	8·7	280	8·9	270	5·4	250	3·6	250	3·3	240	3·1	—	1·4	—	0·3	310	2·6	300	4·3	300	4·9	300	5·2	6·6	28
360	4·4	350	5·5	350	5·0	340	6·2	340	5·5	350	8·7	360	7·9	340	5·2	330	4·7	320	7·9	310	5·9	310	5·2	7·0	29
310	8·5	320	6·8	310	6·2	310	5·9	310	5·6	300	4·9	300	3·9	300	3·9	300	3·9	300	5·6	300	4·9	290	2·9	6·3	30
280	3·3	—	0·9	—	1·4	—	1·4	—	1·4	220	2·5	220	2·5	—	1·4	220	3·3	210	4·9	210	6·5	210	6·5	3·6	31
—	4·4	—	4·0	—	3·5	—	**3·5**	—	3·9	—	3·8	—	4·2	—	3·9	—	4·1	—	4·5	—	4·4	—	4·3	4·3	
—	**5·2**	—	5·2	—	5·0	—	4·7	—	4·5	—	4·2	—	4·2	—	3·9	—	3·8	—	3·9	—	3·9	—	3·9	4·3	

151. Aberdeen : Ha=8 metres+13 metres. **1931.**

Month	Jan.		Feb.		Mar.		April		May		June	
Day.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.
	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.
1	10	17 15	17	0 50	18	3 5	16	13 30	14	14 35	11	13 15
2	11	5 20	8	23 55	10	8 35	17	9 25	10	14 15	9	9 20
3	5	23 50	12	0 40	6	22 0	12	12 0	7	23 45	6	11 40
4	9	22 40	10	8 20	10	22 20	17	15 10	12	4 45	8	12 15
5	9	14 0	17	22 35	17	22 30	**20**	10 20	12	12 55	9	15 50
6	7	0 45	17	1 10	18	10 0	10	8 55	12	12 25	11	4 0
7	4	12 35	8	7 55	**18**	12 20	11	15 35	4	12 10	7	0 45
8	10	18 40	17	12 30	11	19 0	13	12 40	8	16 0	8	14 35
9	10	3 10	12	18 45	13	6 25	7	14 40	8	13 45	7	0 55
10	11	17 10	12	13 10	16	20 25	8	15 55	12	22 10	5	14 30
11	9	19 5	17	14 20	17	0 40	11	17 45	**22**	16 55	11	14 25
12	11	20 45	19	4 15	14	0 20	15	20 25	12	13 25	8	15 50
13	12	15 5	15	13 15	7	12 50	16	23 50	13	12 50	7	20 15
14	9	23 10	15	0 15	7	5 20	15	1 15	14	16 25	12	7 15
15	16	22 5	12	23 55	6	14 45	14	19 35	14	11 40	**22**	10 25
16	**25**	19 55	10	24 0	13	22 5	15	18 45	9	13 0	14	11 35
17	17	14 10	13	2 45	15	8 45	19	15 50	7	16 30	9	14 0
18	15	0 45	9	1 50	10	11 30	14	8 0	8	10 55	8	10 15
19	6	12 35	12	6 35	7	14 25	12	9 20	9	18 0	12	12 10
20	9	12 50	14	7 10	9	8 20	11	14 55	10	10 40	9	14 40
21	10	14 45	14	15 35	11	12 10	9	11 35	10	12 40	15	16 50
22	17	23 30	10	18 5	5	13 45	7	12 55	7	0 55	17	12 15
23	20	2 20	7	10 50	11	14 55	9	11 15	9	16 50	6	9 25
24	16	14 40	14	12 20	9	10 20	11	16 25	9	21 35	7	12 40
25	15	5 25	14	16 10	8	11 15	14	13 45	16	16 25	13	16 35
26	15	20 30	21	12 40	11	14 55	13	2 35	11	8 15	11	14 55
27	10	0 0	15	23 15	8	23 55	14	18 10	7	15 0	11	8 55
28	11	7 25	**21**	5 20	9	3 30	10	13 15	9	23 10	11	18 35
29	10	10 25	—	—	12	14 35	9	7 15	11	10 5	14	10 25
30	5	2 25	—	—	16	21 30	10	7 5	6	17 45	9	13 0
31	23	15 40	—	—	15	2 45	—	—	8	14 55	—	—

Month	July		Aug.		Sept.		Oct.		Nov.		Dec.	
Day.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.
	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.
1	11	14 15	7	14 10	6	23 15	18	15 45	15	20 35	11	11 35
2	11	6 50	6	15 15	**17**	8 15	**23**	16 30	14	15 40	18	23 35
3	13	13 40	5	13 5	10	17 20	13	3 25	16	11 40	20	7 35
4	11	12 50	5	14 25	15	15 35	12	10 45	16	19 10	16	1 50
5	8	17 15	4	13 5	15	11 55	15	2 15	8	13 0	**28**	1 25
6	6	12 20	13	22 20	12	12 5	10	9 25	17	15 45	13	23 40
7	6	8 30	11	8 25	11	12 5	8	16 5	11	22 35	11	6 50
8	15	23 25	**16**	15 25	11	7 55	12	9 5	11	10 0	10	1 5
9	**18**	7 25	14	14 40	11	9 10	15	8 10	13	20 15	12	12 55
10	9	7 50	9	15 15	8	8 30	9	14 30	14	0 25	16	13 10
11	7	17 15	7	9 40	10	11 30	9	2 0	11	4 0	6	22 0
12	11	14 0	7	3 20	12	13 5	13	17 0	9	12 35	12	19 45
13	7	7 10	7	12 55	9	9 55	13	18 0	11	20 45	12	2 35
14	7	8 45	10	11 55	7	14 50	9	11 0	13	6 10	12	16 15
15	5	11 20	5	11 50	6	15 20	7	13 45	6	0 5	9	1 55
16	7	12 25	7	13 10	7	19 15	4	12 5	9	23 55	4	3 0
17	7	14 10	7	15 45	6	0 45	6	21 25	14	22 50	8	19 10
18	6	7 0	5	3 20	5	4 35	6	12 15	**23**	5 30	8	11 15
19	10	15 5	14	19 55	11	9 50	19	22 50	13	23 10	7	19 55
20	14	8 30	15	8 35	14	11 0	20	6 30	17	16 20	5	0 45
21	11	6 45	12	15 20	10	13 35	13	0 55	13	1 0	7	22 20
22	11	16 0	10	0 15	12	15 55	12	23 10	16	23 0	15	0 5
23	14	8 40	11	10 35	10	18 20	8	22 10	21	4 35	21	5 5
24	8	0 5	11	10 25	8	0 0	22	4 0	11	4 35	14	12 0
25	5	11 30	7	10 45	9	9 10	12	6 45	13	3 50	11	8 40
26	7	5 15	7	14 5	7	3 35	13	23 20	17	17 15	10	20 15
27	9	11 15	8	18 40	15	14 35	15	5 0	14	19 40	22	22 20
28	15	20 20	11	13 20	10	10 50	16	10 55	14	0 10	21	2 45
29	13	0 15	7	10 20	9	12 10	9	2 30	15	0 40	19	12 0
30	6	11 5	6	5 45	11	16 5	11	2 25	5	10 25	17	4 15
31	5	16 55	6	5 15	—	—	5	16 55	—	—	11	23 25

* See note in Introduction, p. 86.

DISTRIBUTION OF WIND SPEED: EXTREME VELOCITIES AS RECORDED BY THE DINES TUBE AND ROBINSON CUP ANEMOGRAPHS.*

152. Aberdeen : Ha= { 8 metres+13 metres. Tube Anemograph. / 13 metres+23 metres. Cup Anemograph. } **1931.**

Month.	DISTRIBUTION OF WIND SPEED.								EXTREME VELOCITIES.						
	More than 17·1 m/s.		10·8 to 17·1 m/s.		5·5 to 10·7 m/s.	1·6 to 5·4 m/s.	Less than 1·6 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.		
	Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Veer from N.	Speed.	Mid Time.		Speed.	Date.		
		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	day.	h.	m.
Jan.	31st	1	5	29	184	455	75	0	160	17	31	19	25	16	19	55
Feb.	—	0	7	37	203	376	56	0	300	15	26	13	21	28	5	20
Mar.	—	0	6	26	282	370	66	0	350	15	1	3	18	7	12	20
April... ...	—	0	5	15	287	363	55	0	290	13	5	9	20	5	10	20
May	—	0	1	6	158	498	82	0	210	14	11	14	22	11	16	55
June	—	0	1	4	146	498	72	0	280	12	15	11	22	15	10	25
July	—	0	1	1	122	487	134	0	320	12	9	13	18	9	7	25
Aug.	—	0	2	9	134	457	144	0	50	13	20	7	16	8	15	25
Sept.	—	0	1	5	136	484	95	0	40	12	2	16	17	2	8	15
Oct.	—	0	4	11	174	437	122	0	270	13	2	13	23	2	16	30
Nov.	—	0	6	31	314	262	113	0	150	16	23	5	23	18	5	30
Dec.	—	0	6	18	177	443	106	0	280	16	28	3	28	5	1	25
Year	1 day	1	45	192	2,317	5,130	1,120	0	160	17	Jan. 31	19	28	Dec. 5	1	25

* See note in Introduction, p. 86.

153. Aberdeen. *Readings, in degrees absolute, at 9h Greenwich Mean Time.* **1931.**

Day.	Jan. 30 cm	Jan. 122 cm	Feb. 30 cm	Feb. 122 cm	Mar. 30 cm	Mar. 122 cm	April 30 cm	April 122 cm	May 30 cm	May 122 cm	June 30 cm	June 122 cm	July 30 cm	July 122cm	Aug. 30 cm	Aug. 122 cm	Sept. 30 cm	Sept. 122 cm	Oct. 30 cm	Oct. 122 cm	Nov. 30 cm	Nov. 122 cm	Dec. 30 cm	Dec. 122 cm
	°A.	°A.	°A.	°A.	°A.	°A.	°A.	°A.	°A.	°A.	°A.	°A.	°A.	°A.	°A.	°A.	°A.	°A.	°A.	°A.	°A.	°A.	°A.	°A.
1	75·4	79·0	75·0	77·9	75·5	77·3	76·8	77·8	80·2	79·0	84·5	81·6	87·0	83·5	87·8	84·6	85·3	84·8	84·3	83·8	79·3	81·9	78·9	81·1
2	75·1	79·0	75·1	77·7	75·0	77·3	76·8	77·8	80·0	79·1	83·8	81·9	86·9	83·6	88·1	84·8	85·4	84·7	84·6	83·8	80·3	81·9	78·8	81·1
3	75·0	79·0	75·0	77·7	74·9	77·3	76·7	77·8	79·8	79·2	83·7	82·0	86·6	83·7	88·1	84·7	84·7	84·7	83·9	83·8	81·1	81·8	79·4	81·0
4	75·0	78·9	75·3	77·6	74·7	77·3	77·1	77·8	80·6	79·2	84·2	82·0	86·6	83·7	88·0	84·9	84·8	84·7	83·8	83·8	81·6	81·8	79·6	80·9
5	74·9	78·8	75·2	77·6	74·7	77·3	77·2	77·8	80·4	79·2	83·4	82·0	87·0	83·8	88·0	84·9	84·7	84·8	84·6	83·8	81·1	81·8	79·2	80·9
6	74·8	78·7	75·4	77·5	74·6	77·2	77·2	77·8	80·8	79·3	83·5	82·0	87·4	83·9	87·8	85·0	84·5	84·6	84·7	83·7	80·8	81·8	78·8	80·9
7	74·7	78·6	75·2	77·5	74·6	77·2	77·5	77·8	81·1	79·4	83·0	82·0	87·1	83·9	87·8	85·1	84·3	84·5	84·6	83·8	81·0	81·8	78·1	80·8
8	74·6	78·4	75·3	77·5	74·6	77·2	78·2	77·9	81·7	79·5	84·2	82·0	87·3	84·0	87·3	85·0	84·2	84·4	83·9	83·7	81·2	81·9	78·2	80·7
9	74·6	78·4	76·0	77·6	74·4	77·1	78·4	77·9	81·7	79·6	84·2	82·0	87·4	84·0	86·6	85·1	84·2	84·3	84·1	83·8	81·3	81·9	77·9	80·6
10	74·5	78·2	76·5	77·6	74·5	77·1	79·1	78·0	82·2	79·6	84·1	82·0	87·6	84·0	86·3	85·1	83·7	84·2	83·8	83·8	81·4	81·9	78·2	80·5
11	74·5	78·1	76·0	77·5	74·5	77·1	79·9	78·0	82·3	79·8	84·9	82·0	87·4	84·0	86·4	85·0	83·3	84·1	83·6	83·7	80·4	81·9	78·6	80·5
12	74·5	78·1	75·7	77·5	75·0	77·0	80·4	78·0	82·5	79·9	85·1	82·1	87·4	84·0	86·7	85·1	83·2	84·1	83·5	83·7	81·2	81·9	78·1	80·4
13	74·6	78·0	75·6	77·6	75·0	77·0	79·7	78·2	82·9	80·0	85·3	82·2	87·0	84·0	87·0	84·9	83·1	84·0	83·2	83·7	80·8	81·9	78·5	80·4
14	74·6	78·0	75·3	77·6	74·6	77·0	79·7	78·3	83·0	80·1	85·9	82·3	87·0	84·1	86·7	85·0	83·3	83·9	82·8	83·7	80·6	81·9	78·1	80·4
15	74·7	77·9	75·2	77·6	74·4	77·0	79·8	78·5	83·0	80·2	85·0	82·3	87·5	84·1	86·8	85·0	84·5	83·8	83·2	83·6	80·6	81·9	78·6	80·3
16	75·9	77·9	75·2	77·5	74·4	77·0	79·7	78·5	82·8	80·3	86·0	82·5	87·6	84·1	87·1	84·9	85·0	83·8	83·2	83·6	80·5	81·8	78·2	80·3
17	76·2	77·9	74·9	77·4	75·2	77·0	79·1	78·7	83·5	80·4	86·0	82·7	87·4	84·2	87·1	85·0	85·0	83·9	82·8	83·5	80·1	81·7	77·5	80·3
18	75·6	77·9	75·1	77·5	75·6	77·0	79·0	78·7	83·2	80·5	85·6	82·8	87·6	84·3	87·2	84·9	85·1	83·9	83·0	83·5	80·1	81·7	76·9	80·2
19	75·3	77·9	75·2	77·4	76·0	76·9	79·1	78·7	83·1	80·6	85·8	82·8	87·3	84·4	87·2	85·0	85·3	83·9	82·8	83·4	80·0	81·6	77·1	80·3
20	75·4	77·9	75·2	77·3	76·7	76·9	79·3	78·8	83·0	80·7	85·1	83·0	87·0	84·3	86·9	84·9	84·9	83·9	82·7	83·4	80·0	81·6	77·3	80·1
21	75·6	77·9	75·5	77·4	77·2	77·0	79·2	78·8	82·4	80·8	85·6	82·9	87·0	84·4	86·3	85·0	84·3	84·0	81·6	83·4	80·2	81·5	77·5	79·9
22	76·1	77·9	75·1	77·4	77·8	77·0	79·4	78·9	82·7	80·8	86·3	83·0	87·3	84·4	86·0	84·9	83·9	84·0	80·8	83·3	79·4	81·3	77·5	79·8
23	76·3	77·9	74·8	77·3	78·4	77·1	79·0	78·9	83·0	80·9	86·0	83·0	87·5	84·4	85·7	85·0	84·3	83·9	80·6	83·1	79·2	81·3	77·3	79·8
24	76·4	77·9	74·7	77·3	78·1	77·3	79·1	78·9	83·8	81·0	85·3	83·1	87·4	84·4	85·3	85·0	84·4	83·9	80·2	83·0	80·1	81·2	78·1	79·8
25	76·1	77·9	75·0	77·3	77·9	77·3	79·7	78·9	83·5	81·0	85·0	83·1	87·5	84·5	85·4	85·0	84·5	83·9	80·0	83·0	80·0	81·0	78·7	79·9
26	75·6	77·9	76·2	77·3	77·6	77·4	79·6	79·0	83·9	81·1	85·6	83·2	87·3	84·6	85·7	85·0	84·7	83·9	78·8	82·9	80·2	81·0	78·3	79·9
27	75·2	77·9	75·9	77·3	77·2	77·6	79·7	79·0	84·2	81·1	86·6	83·2	87·0	84·6	85·8	84·9	84·6	83·9	79·0	82·7	80·7	81·0	78·8	79·9
28	75·4	77·9	75·7	77·3	77·6	77·7	79·3	79·0	84·5	81·2	87·0	83·1	87·3	84·7	85·9	84·7	84·3	83·9	79·7	82·5	80·5	81·1	78·9	79·8
29	75·7	77·9	—	—	77·2	77·6	79·4	79·0	84·7	81·3	87·0	83·3	86·9	84·6	85·9	84·8	84·4	83·8	79·3	82·3	80·6	81·0	77·8	79·8
30	75·4	77·9	—	—	77·1	77·8	80·4	79·0	85·1	81·3	86·9	83·4	86·9	84·7	85·9	84·8	84·4	83·8	79·1	82·2	80·2	81·1	77·2	79·8
31	75·0	77·9	—	—	77·0	77·8	—	—	85·1	81·6	—	—	87·5	84·7	85·4	84·8	—	—	78·8	82·1	—	—	76·5	79·7
Mean	75·2	78·2	75·4	77·5	75·9	77·2	78·9	78·4	82·6	80·2	85·2	82·5	87·2	84·2	86·7	84·9	84·4	84·1	82·3	83·4	80·5	81·6	78·1	80·3
Year																							81·1	81·1

The initial 2 or 3 of the readings is omitted; *i.e.*, 275·0 degrees absolute is written 75·0.

MINIMUM TEMPERATURE "ON THE GRASS" DURING THE INTERVAL 18h. TO 7h. G.M.T.

154. Aberdeen. *Readings, in degrees absolute.* **1931.**

Month.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	68·7	73·5	67·6	74·5	72·0	81·8	82·9	**86·4**	77·2	81·9	79·0	66·4
2	71·9	69·1	60·9	74·9	70·9	78·6	83·3	85·0	82·8	**84·4**	81·5	75·4
3	67·5	72·4	60·5	74·1	**69·7**	76·5	**75·0**	84·7	80·1	76·9	**82·9**	79·9
4	70·4	74·2	**59·8**	**69·1**	76·8	79·8	85·3	83·5	79·7	77·0	79·5	78·3
5	72·4	71·5	74·0	71·0	74·5	77·6	76·9	82·9	79·9	83·7	71·8	74·2
6	70·4	74·2	71·5	71·3	77·0	79·6	83·7	82·0	77·0	79·0	73·1	71·4
7	**66·2**	70·6	67·5	69·5	72·3	78·4	84·7	81·4	76·4	75·9	77·1	72·5
8	70·8	72·1	71·0	76·6	79·3	80·8	85·4	78·7	75·0	76·8	76·2	70·6
9	71·3	72·2	71·9	75·6	73·7	81·5	85·1	78·5	74·7	84·0	80·6	71·1
10	70·2	72·8	71·3	70·0	79·2	82·9	82·1	78·4	72·0	75·2	78·0	78·1
11	75·4	71·9	72·5	**81·9**	81·4	83·5	82·5	76·5	**71·4**	79·0	80·9	70·3
12	69·1	73·0	70·8	77·7	78·7	76·9	84·7	83·0	74·8	75·5	73·5	71·5
13	70·1	72·0	67·8	73·0	81·3	76·4	82·5	84·0	73·6	72·8	71·8	72·0
14	67·8	70·5	66·9	77·5	79·2	83·0	76·2	82·1	78·6	76·2	79·6	72·1
15	73·0	71·2	65·9	73·6	79·1	82·4	84·9	79·7	83·7	79·5	78·1	73·5
16	**75·8**	67·0	73·5	74·4	74·8	83·6	84·5	84·0	**83·9**	74·7	72·0	74·1
17	72·9	71·5	75·1	71·9	79·1	74·3	83·4	85·8	83·5	73·7	74·9	**66·3**
18	71·9	72·5	75·8	74·7	75·3	81·3	84·0	82·2	78·1	79·6	79·4	67·0
19	71·9	68·5	**76·3**	75·6	77·6	80·3	83·0	85·1	81·4	77·5	74·5	75·9
20	71·3	**74·6**	74·5	75·2	75·2	73·7	78·9	84·6	75·8	74·3	74·3	70·9
21	70·8	71·7	73·0	72·0	70·2	82·8	**75·0**	84·0	76·4	72·5	72·2	76·5
22	74·7	68·5	73·0	72·5	76·0	82·1	83·6	77·6	74·5	72·6	**71·3**	71·9
23	75·2	**66·4**	75·7	**69·1**	80·4	73·6	82·4	75·8	82·4	71·7	77·8	74·3
24	73·8	70·2	71·3	73·5	81·2	74·9	84·5	76·2	81·1	70·3	78·5	80·9
25	72·4	73·6	71·4	78·3	80·1	**73·5**	83·1	78·0	78·7	69·2	77·5	70·4
26	70·2	71·9	71·0	78·6	81·0	75·2	**85·8**	77·5	81·4	**66·0**	80·4	71·4
27	72·9	71·9	67·4	78·4	75·7	**85·4**	84·5	**73·4**	80·9	76·4	77·5	**81·0**
28	74·0	70·3	74·0	71·9	77·5	77·4	84·4	77·4	83·0	72·0	79·2	72·2
29	72·4	—	70·2	74·9	**81·7**	78·6	82·0	77·5	82·5	69·9	80·7	67·7
30	69·3	—	74·4	74·3	79·7	79·7	83·2	78·1	81·9	69·7	71·6	72·9
31	67·7	—	75·4	—	81·3	—	85·4	75·5	—	71·3	—	68·0
Mean	71·4	71·4	70·7	74·2	77·2	79·2	82·7	80·6	78·7	75·5	76·8	72·9

Annual Mean 275·9

NOTES.—(1) The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.
(2) The minimum "on the grass" refers to the interval from 18h on the previous day to 7h on the day to which it is entered.

155. Aberdeen. **January, 1931.**

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	St-Cu.	A-Cu : St-Cu.	St-Cu.	1	1	1	3	1	7	j	j	k	k	j	k	...	...	...	...	...	...	b ⌴, b *a* : b and bc *p and n*.
2	St-Cu.	St-Cu : Fr-Nb.	A-Cu : St-Cu.	4	7	9	8	4	1	k	j	i	j	j	j	...	...	●^{0}	...	...	...	bc ⌴ to c ●^{0} *a* : c ●^{0}, bc *p* : b *n*.
3	St-Cu.	St-Cu.	A-Cu : St-Cu.	7	8	7	3	5	6	k	j	E	F	F	G	...	...	...	...	...	...	bc, c, z f *a* : bc f, m *p* : bc m, c ● ∼ *n*.
4	A-Cu : St-Cu : Cu.	St-Cu : Cu-Nb.	St-Cu : Cu-Nb.	5	2	2	3	5	4	k	j	k	k	k	j	...	...	...	...	●	...	●^{0} early, b and bc *a* : bc p ● *p and n*.
5	A-Cu : St-Cu.	St-Cu.	St-Cu.	6	9	4	6	4	5	j	j	l	k	k	k	...	...	...	...	...	...	p ●, bc and c *a* : bc, p ●^{0} late *p and n*.
6	St-Cu : Cu.	Ci : St-Cu.	Ci.	4	2	3	3	1	1	j	i	i	i	G	H	...	...	...	...	...	...	p ✱, b and bc *a* : bc, b *p* : b *n* : ⛉ 8h.
7	A-Cu.	A-Cu.	A-Cu.	9	9	9	8	8	4	G	E	H	H	H	H	...	...	...	...	...	...	b to c f m *a* : c *p* : bc *n*.
8	A-Cu.	Ci-St : A-Cu : St-Cu.	A-St : Fr-Nb.	6	7	9	10	10	3	i	G	G	G	j	j	...	...	...	●^{0}	...	...	bc, c *a* : c ●^{0} *p* : c ●^{0}, bc, b *n*.
9	A-Cu.	Ci-Cu:A-Cu:Cu-Nb.	A-Cu : St-Cu.	3	6	7	9	1	8	j	j	j	G	j	i	...	...	...	●^{0}	...	...	b ⌴ to bc *a* : bc, c ●^{0} *p* : b to c *n*.
10	St-Cu : Fr-Nb.	Ci-Cu : A-Cu : St-Cu.	A-Cu : St-Cu.	9	9	9	9	8	10	i	i	j	j	j	j	...	...	...	...	...	...	●^{0} early, c *a* : c *p* : c ●, c *n*.
11	St-Cu.	Cu-Nb : Nb.	...	10	10	9	4	0	0	k	j	j	k	k	j	...	...	●	...	...	...	c, c ● *a* : c ● to b *p* : b ⌴ *n*.
12	A-Cu.	St-Cu : Cu-Nb.	Cu-Nb : Nb.	2	4	2	8	8	9	i	j	k	j	j	j	...	...	...	●^{0}	●^{0}	●	b ⌴, b and bc *a* : c p ●^{0} *p* : c p ● *n*.
13	Cu-Nb : Nb.	St-Cu : Cu-Nb.	St-Cu : Cu-Nb.	9	9	2	4	2	9	k	F	k	k	k	i	✻	✻	...	✻^{0}	...	✻	c p ✻ *a* : bc p ✻^{0} *p* : bc p ✻ *p* : ⧆ 0·5 cm.
14	St-Cu : St.	Nb.	A-Cu : A-St.	10	10	10	9	9	9	i	F	H	i	F	i	...	✻^{0}	...	●^{0}	...	...	c to o ✻^{0} *a* : c ●^{0} *p* : c *n* : ⧆ 3 cm.
15	St-Cu.	A-Cu : Fr-Nb.	A-Cu : A-St : Fr-Nb.	9	8	9	9	9	5	i	j	H	j	H	H	...	...	...	...	...	...	c *a and p* : b and c *n*.
16	A-Cu : A-St.	Ci : A-Cu : St-Cu.	Cu-Nb : Nb.	8	9	3	3	8	9	k	k	k	k	k	k	...	...	...	...	●^{0}	...	c, bc *a* : bc, c p ● *p* : bc p ✱ △ q *n*.
17	St-Cu : Cu-Nb.	Ci : St-Cu : Cu-Nb.	Ci : St-Cu : Cu-Nb.	8	2	3	5	5	8	k	k	k	k	k	j	...	✱^{0}	...	...	...	✻	bc p ✱ △ q *a* : bc p ✻^{0} q *p* : c ✻ *n*.
18	A-St.	A-St : Nb.	A-St : Nb.	9	9	9	9	9	10	j	j	j	j	i	H	...	✻	...	...	✻^{0}	✻^{0}	c p ✻^{0} *a* : c ✻^{0} *p* : o ✻, ✻^{0} *n* : ⧆ 2 cm.
19	Nb.	A-St : Nb.	...	10	10	10	9	0	10	H	H	H	H	E	H	●^{0}	●^{0}	...	...	...	...	o ✻ to ●^{0}, c *a* : c ● to b f *p* : f_2, c *n* :
20	Nb.	A-Cu.	Ci.	10	10	1	0	1	2	H	F	k	k	k	H	●	●	...	...	...	...	c, o ● and ●^{2}, b *a* : b *p and n*. [⧆ 2 cm.
21	A-St.	A-St : Fr-Nb.	A-St : Fr-Nb.	10	10	10	9	10	9	G	F	H	H	H	k	...	...	...	...	...	...	bc, c *a* : c *p* : c to o ● *n*.
22	...	Ci-St : Ci-Cu : A-Cu.	A-St : Nb.	0	1	6	9	10	10	k	k	k	H	H	i	...	...	...	...	...	...	o ● to b, bc *a* : bc, c *p* : c to o ●^{2} *n*.
23	...	Fr-Cu.	A-Cu.	0	0	1	1	1	9	k	k	k	j	j	j	...	...	...	...	...	...	● early, b *a* : b *p* : b to c *n*.
24	Nb.	Ci-St:A-Cu:Cu-Nb.	...	10	10	8	6	0	0	j	j	k	k	k	k	...	...	...	...	...	...	o ●, c ● and ✱ *a* : c to b *p* : b *n* : ⊕ 13h.
25	...	F-Ci : A-Cu : Cu.	St-Cu.	0	2	8	9	8	1	k	l	k	k	k	k	...	...	...	...	...	...	b to c *a* : c *p* : c to b *n*.
26	A-Cu.	A-Cu : St-Cu : Nb.	Fr-Nb.	1	7	9	5	1	3	k	k	j	k	k	k	...	...	...	...	...	...	b to c *a* : bc p ✱^{0} *p and n*.
27	St-Cu : Cu-Nb.	...	Ci-St:A-Cu:Fr-Nb.	6	1	0	1	8	8	k	i	k	H	G	H	...	...	...	...	...	...	p ✱^{0} early, b *a* : b to c *p* : c *n*.
28	A-St : Nb.	A-Cu : Cu : Cu-Nb.	St-Cu.	10	10	8	6	9	10	i	j	k	j	j	j	●^{0}	...	...	...	...	...	c ●^{0}, p ●^{0} △^{0} *a* : bc *p* : c *n*.
29	St-Cu.	St-Cu : Cu-Nb.	Cu.	10	7	8	5	1	7	k	k	k	k	k	i	...	...	...	...	...	...	c, bc, p △^{0} *a* : c to b *p* : bc ⌴ *n*.
30	St-Cu : Cu.	Cu.	Ci.	6	9	1	3	1	1	k	k	k	j	H	H	...	✻^{0}	...	...	...	...	bc ⌴, c p ✻^{0}, b *a* : bc *p* : b ⌴ *n* : ⛉ [20h *et seq.*
31	A-St : Nb.	Nb.	Nb.	10	10	10	10	10	10	i	H	H	H	H	G	...	...	✱	✱	●	●^{2}	⌴, c to o ✱ *a* : o ✱ q *p* : o ●, ●^{2} q*n*.
Mean Cloud Am'nt.				6·5	6·7	6·0	6·0	5·1	6·1													

156. Aberdeen. **February, 1931.**

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	Nb.	A-St : Nb.	St-Cu.	10	10	10	9	8	3	j	H	i	j	k	k	●^{0}	●^{0}	●^{0}	...	...	...	o, ● to d *a* : c ●^{0} *p* : c to b *n*.
2	St-Cu.	St-Cu.	A-St : Nb.	9	9	9	10	10	2	k	k	i	G	j	k	...	...	...	✱	...	...	bc ⌴ c *a* : c to o ✱ *p* : c ●^{0} to b *n*.
3	St-Cu.	St-Cu.	Cu : St-Cu.	9	9	9	9	9	10	k	k	i	H	H	i	...	...	...	...	...	●^{0}	bc, c *a* : c *p* : c ●^{0} *n*.
4	St-Cu.	Nb.	Nb.	9	10	10	10	10	9	j	i	G	G	H	i	...	...	✻^{0}	✻^{0}	✻	...	c to o ✻^{0} *a* : o ✱ ✻ *p* : o ✻ to c *n*.
5	St.	A-St : Nb.	A-St : Nb.	10	10	10	10	10	9	j	G	H	G	H	j	...	...	●^{0}	...	...	...	o to c ●^{0} *a* : c ●^{0} *p* : c *n*.
6	Nb.	A-St : Nb.	St-Cu.	10	10	10	9	4	3	i	H	G	H	G	H	●^{0}	✻	●^{0}	...	...	...	o ✱ to c ● *a* : c, bc *p* : bc *n*.
7	A-Cu : St-Cu.	A-Cu : A-St: St-Cu.	St-Cu.	6	7	9	7	4	10	k	i	j	i	H	H	...	...	...	...	...	...	bc to c ●^{0} *a* : c to bc *p* : bc to c *n*.
8	A-St : Nb.	A-St : Fr-Nb.	St : St-Cu.	10	10	10	10	10	10	j	k	j	j	j	j	●^{0}	●^{0}	...	...	...	...	c ●^{0} *a* : c ●^{0} *p* : c *n*.
9	...	A-Cu.	A-Cu : Fr-St.	0	8	3	6	5	10	k	j	i	k	i	H	...	...	...	...	...	...	b to c *a* : bc *p* : bc to c *n*.
10	St-Cu.	Ci:A-Cu:Cu:St-Cu.	Ci : A-Cu : St-Cu.	9	5	7	7	3	0	j	i	k	k	k	k	...	...	...	...	...	...	c to bc *a* : bc *p* : bc to b *n*.
11	Ci:Ci-St:A-Cu:St-Cu.	A-St : Fr-Nb.	Cu : St-Cu.	9	6	10	9	2	0	k	k	H	j	j	j	...	...	...	...	...	...	bc to c ● *a* : c ● to b *p* : b *n*.
12	Fr-Nb.	Ci : Cu : Cu-Nb.	Cu : St-Cu.	5	4	3	7	8	3	k	k	l	k	k	i	...	...	...	...	...	...	bc q p ● △ *a* : c p ●, bc q *p* : c q, b, bc *n*.
13	Ci : St-Cu.	Ci : Cu-Nb.	Fr-Nb : Cu-Nb.	3	7	2	7	7	2	k	k	l	l	j	j	...	...	...	...	▲^{0}	...	bc, c p ✻ q *a* : bc q p ▲ ✻ ✱ *p* : bc p ✻^{0} *n*.
14	Cu-Nb. : St-Cu.	A-St.	A-St.	2	2	7	10	10	10	k	j	j	i	i	H	...	...	...	...	...	...	bc p ✻^{0} *a* : bc to c *p* : c ✻ ✱ *n* : ⧆ 1 cm.
15	Cu : St-Cu.	A-Cu : Cu : St-Cu.	A-Cu : Cu : St-Cu.	2	1	5	4	3	2	k	k	j	j	j	j	...	...	...	...	...	...	c p ✱^{0} to b, bc *a* : bc *p* ; bc, b *n*.
16	A-Cu.	Ci : Cu.	False Ci : A-Cu.	1	0	1	1	1	1	k	H	k	j	k	j	...	...	...	...	...	...	b *a and p* : b to bc *n*.
17	Nb.	A-Cu : St-Cu : Nb.	A-Cu : A-St : St-Cu.	10	10	6	9	10	2	i	i	k	j	j	j	...	...	...	...	...	...	o ● to bc *a* : bc to c *p* : c to b *n*.
18	St-Cu : Fr-Cu.	Ci : St-Cu.	St-Cu.	9	8	3	3	1	3	j	j	k	j	H	i	...	...	...	...	...	...	bc to c ●, then bc *a* : bc to b *p* : b to bc *n*.
19	A-St : A-Cu.	A-St : A-Cu : St-Cu.	A-Cu : A-St : St-Cu.	10	10	9	9	9	9	i	H	j	i	j	j	...	...	...	...	...	...	c ✻^{0} *a* : c *p* : c *n*.
20	A-St : Nb : Nb-Cuf.	A-St : A-Cu : St-Cu.	...	10	10	9	5	0	0	k	j	k	k	k	k	...	...	...	...	...	...	c ●^{0} *a* : c to b *p* : b ⌴ *n*.
21	St-Cu.	A-Cu : Cu.	...	4	5	3	2	0	0	k	k	k	k	j	j	...	...	...	...	...	...	bc ⌴ *a* : bc to b *p* : b *n*.
22	False Ci.	A-Cu : A-St.	A-Cu:A-St:Cu:St-Cu.	2	4	7	10	7	0	k	j	k	j	k	j	...	...	...	✱^{0}	...	...	b to bc *a* : bc to c ✱ *p* : bc to b *n*.
23	Nb.	A-Cu:Cu:Cu-Nb:St-Cu.	A-St : St.	10	4	1	9	10	2	i	G	k	k	H	i	...	...	...	...	...	...	o c ✻^{0} to b *a* : b to c ✱ *p* : c ✱ to b *n* : ⧆ trace.
24	St-Cu.	Nb.	A-Cu : A-St : St-Cu.	10	10	10	9	9	9	k	F	H	i	H	i	...	✱	✱	...	...	...	c to o ✻ ✱ *a* : o ✱ to c *p* : c *n* : ⧆ trace.
25	A-Cu.	A-Cu : Cu : St-Cu.	Ci : A-Cu : St-Cu.	8	9	2	3	9	10	i	k	k	k	k	i	...	...	...	...	...	...	c to b *a* : b to c *p* : c o ● *n*.
26	Cu : St-Cu.	A-Cu : Cu.	Fr-Nb : Cu-Nb.	2	0	3	2	4	6	k	k	k	k	k	j	...	...	...	...	...	...	● c to b *a* : bc q, p ●^{0} *p* : bc *n*.
27	Cu : St-Cu.	St-Cu.	St-Cu.	7	2	8	2	9	3	i	G	k	k	j	j	...	...	...	...	...	...	bc *a* : c b bc c *p* : bc *n*.
28	A-Cu : St-Cu : Cu.	Cu : St-Cu.	Cu-Nb : St-Cu.	3	3	1	4	6	8	k	l	l	k	k	j	...	...	...	...	...	...	bc q ⊕ to b *a* : b, bc *p* : bc to c *n*.
Mean Cloud Am'nt.				6·7	6·5	6·3	6·9	6·4	4·9													

7h 13h 18h Cloud Forms. | 7h 9h 13h 15h 18h 21h Cloud Amount (All Forms). | 7h 9h 13h 15h 18h 21h Visibility. | 7h 9h 13h 15h 18h 21h Precipitation. | Remarks on the Weather of the Day.

157. Aberdeen. March, 1931.

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	Nb.	Cu : Cu-Nb.	Cu-Nb.	10	9	8	5	2	0	F	H	k	k	k	k	✱²	✱⁰	...	...	...	...	o✱²tocp△⁰a:bcp✱△p:bn:⊠15cm.
2	St-Cu.	A-St : St-Cu.	A-St : Nb.	9	10	10	10	10	8	H	j	k	G	H	H	...	...	...	✱	...	...	btoca:co✱p:c,bc⊔n:⊠15cm.
3	Ci.	Ci : Ci-Cu : Cu-Nb.	Ci-Cu : A-Cu : Cu.	4	6	3	2	2	2	k	k	j	k	H	i	...	...	...	...	...	...	bc ⊕ a : bc, b p : b n : ⊠ 18 cm.
4	Ci : St-Cu.	Cu : St-Cu.	St-Cu.	2	7	9	5	8	9	i	H	G	G	i	i	...	...	...	...	...	...	bc, c ✱⁰ a : c, bc p ; c n : ⊠ 10 cm.
5	St-Cu.	Nb.	Cu : St : St-Cu.	10	10	10	10	9	9	k	i	i	i	j	i	...	...	●⁰	...	...	●✱⁰	c✱⁰△⁰too●⁰a:o●⁰,c✱⁰△⁰p:c●✱⁰n: [⊠ 6 cm.
6	Cu-Nb.	A-Cu : Cu : Cu-Nb.	A-Cu : Cu-Nb : Nb.	5	8	5	4	9	8	j	k	l	j	k	j	...	...	...	...	...	...	bcp✱⁰△⁰a:bcp✱⁰△⁰p:cp✱⁰△⁰qn: [⊠ 4 cm.
7	A-St : Cu-Nb.	A-Cu : Cu-Nb.	Cu-Nb.	10	10	7	3	7	8	j	i	k	k	j	k	▲	✱⁰	...	✱	✱	...	cqp✱△a:bcqp✱p:bcqp✱△n:⊠6cm.
8	Cu-Nb : Nb.	Cu : St-Cu.	Cu-Nb : Nb.	9	10	6	7	9	9	k	j	k	k	j	j	✱⁰	✱⁰	...	...	✱⁰	...	c✱⁰a:bcp✱⁰p:cp✱⁰n:⊠6cm.
9	Cu-Nb. : St-Cu.	A-Cu. : Cu-Nb.	A-Cu:Cu-Nb:St-Cu.	9	9	4	9	8	9	k	k	k	j	i	j	...	...	...	...	✱	...	cqp✱a:bcp✱△p:cp✱⁰n:⊠5cm.
10	Cu : St-Cu.	A-Cu : St-Cu.	Nb : St-Cu.	9	9	9	9	9	8	j	H	k	k	k	j	...	...	...	...	...	...	c a : c p ●✱ p : c p ●✱ to bc n : ⊠ 5 cm.
11	Cu-Nb. : Nb.	A-Cu : Cu-Nb.	Ci : A-Cu : Cu-Nb.	7	8	4	9	2	1	j	H	k	k	k	k	✱⁰	✱	...	...	...	...	bc,cp✱qa:bc,cqp✱p:b,bcn:⊠1cm.
12	Ci : Cu-Nb.	A-Cu : Cu-Nb.	Ci:Ci-Cu:St-Cu:Cu-Nb.	2	3	1	1	1	0	k	j	k	k	j	j	...	...	...	...	...	...	bc p ✱⁰ b a : b p : b n : ⊠ 1 cm.
13	Nb.	St-Cu.	Ci:A-Cu:Fr-Cu:St-Cu.	10	10	10	9	5	3	E	F	j	k	k	j	✱	✱	...	...	...	...	b to o ✱ a : c, bc p : bc, c n : ⊠ 2 cm.
14	Cu : St-Cu.	A-Cu : A-St : Nb.	A-Cu.	8	8	9	9	4	4	H	H	i	j	j	j	...	...	...	...	...	...	c p ✱⁰ a : c ✱⁰ bc p : bc n : ⊠ 2 cm.
15	Ci : Ci-Cu.	Cu : St-Cu.	Ci : Ci-St : Fr-St.	3	7	7	1	3	10	k	H	k	j	H	H	...	...	...	...	...	...	bc, c a : b, bc p : c, o n : ⊠ 1 cm.
16	St.	A-Cu : Fr-St.	Ci:Ci-Cu:A-Cu:Fr-St.	10	10	9	10	9	8	H	G	H	i	i	i	...	...	...	...	...	...	o, c a : o, c p : c n.
17	Ci:Ci-Cu:St-Cu:St-Cuf.	St-Cu.	St-Cu.	9	8	9	8	9	10	k	j	k	k	j	j	...	...	...	...	...	...	Cloudy throughout.
18	St-Cu.	St.	St-Cu : St.	10	10	9	10	9	9	i	H	H	i	i	i	...	...	...	...	...	...	Cloudy throughout.
19	St.	St-Cu : St.	Ci.	10	10	6	3	7	10	H	H	G	H	G	H	...	...	...	...	...	...	o to bc a : bc p : bc to o n.
20	St.	A-Cu.	A-Cu.	10	10	5	3	6	5	G	G	H	G	H	G	...	...	...	...	...	...	o, c, bc a : bc p : bc n.
21	...	A-Cu.	A-Cu : A-St : Fr-Nb.	0	9	6	8	9	9	H	G	H	H	H	H	...	...	...	...	...	...	b to c a : bc, c ●⁰ p : c n.
22	St-Cu.	Cu : St-Cu.	Cu : St-Cu.	8	9	8	8	8	9	j	i	i	i	j	j	...	...	...	...	...	...	Cloudy throughout.
23	A-St : Nb.	St-Cu : Nb-Cuf	Cu : St-Cu.	10	10	9	9	9	8	k	j	k	k	k	k	...	●⁰	...	●⁰	...	...	c ●⁰ a and p : c n.
24	Ci : Ci-St : St-Cu.	Ci : Cu : St-Cu	Ci-St.	6	4	3	5	6	4	k	k	l	l	j	k	...	...	...	...	...	...	c, bc a : bc ⊕ p : bc n.
25	St-Cu.	Ci : Fr-Cu.	Ci : St-Cu.	9	7	3	2	2	0	H	i	k	j	j	k	...	...	...	...	...	...	c, bc a : bc, b p : b n.
26	Ci.	St-Cu.	Fr-St.	1	3	1	1	1	0	k	k	j	k	H	i	...	...	...	...	...	...	b ⌴, bc a : b p : b, bc ⌴ n.
27	...	St-Cu.	A-Cu : Fr-Nb.	0	0	9	9	9	10	i	H	i	i	H	H	...	...	...	...	...	●⁰	b ⌴, bc, c ●⁰ a : c ●⁰ p : c, o ● n.
28	St-Cu.	St-Cu.	St-Cu.	9	9	8	7	7	1	k	k	k	k	k	k	...	...	...	...	...	...	c, bc a : c, bc p : bc, b n.
29	Ci : St-Cu.	Ci : Cu : St-Cu.	Ci : Fr-Cu.	5	5	6	6	1	8	k	j	j	k	k	j	...	...	...	...	...	...	bc a : bc, b p : b to c n.
30	Ci:A-Cu:Cu-Nb:Fr-Nb.	A-St : Nb-Cuf.	A-Cu : A-St : Fr-Nb.	6	8	9	10	9	9	i	i	i	i	H	H	●⁰	●⁰	●⁰	●⁰	...	...	bc, c p ●⁰ a : c ●⁰ p : c n.
31	St-Cu.	St-Cu.	Cu : St-Cu.	9	9	9	9	9	9	j	j	k	k	j	j	...	...	...	...	...	...	Cloudy throughout.
Mean Cloud Am'nt.				7·1	7·9	6·8	6·5	6·4	6·4													

158. Aberdeen. April, 1931.

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	Cu : St-Cu.	St-Cu.	Ci-St : Cu : St-Cu.	7	9	8	5	9	9	j	j	k	j	j	j	...	...	...	...	...	...	bc, c a : bc, c p : c q n.
2	A-Cu : A-St : Cu.	A-St : Nb.	Nb.	9	10	10	10	10	10	i	i	i	H	G	H	...	...	●⁰	●⁰	●	●	c ●⁰ a : o ● p : o ●●✱ n.
3	A-Cu : Nb.	Ci : Cu.	Ci : Cu : St-Cu.	8	7	6	8	4	0	j	k	l	l	k	k	...	...	...	...	...	...	o ●⁰ to bc a : bc, c y p : bc, b n.
4	Ci-St : A-St.	A-Cu:A-St:Fr-Cu:St-Cu.	A-Cu:A-St:Cu:Fr-Nb.	4	7	9	6	9	0	j	k	k	k	k	k	...	...	...	...	...	...	bc⊕tocya:cy,bc,c●p:c,b,bc,c●✱⁰n.
5	St-Cu : Cu-Nb.	Cu : Cu-Nb : St-Cu.	Cu-Nb : St-Cu.	1	1	2	1	2	0	l	l	l	l	l	k	...	...	...	...	...	...	●✱⁰ to bc, b a : b, bc p : b n.
6	St-Cu.	Ci : Cu.	Ci.	1	2	4	1	1	0	k	k	j	j	j	j	...	...	...	...	...	...	b, bc a : bc, b p : b n.
7	A-Cu.	A-Cu.	Ci : Fr-St.	2	3	1	1	2	10	i	i	i	H	i	i	...	...	...	...	...	...	bc, b a : b p : b to o n.
8	St.	St.	St : St-Cu.	10	10	10	10	10	10	i	G	i	i	i	i	...	...	...	...	...	●⁰	o, c a : o. c p : c ●⁰ n.
9	A-Cu : A-St.	Ci-St : Cu.	Cu : St-Cu.	9	7	4	5	6	8	k	k	i	k	j	i	...	...	...	...	...	...	c, bc y ⊕ a : bc y p : b to c n.
10	Ci-St.	A-Cu : A-St.	A-Cu : A-St : St-Cu.	4	3	4	9	9	9	i	F	i	i	H	H	...	...	...	...	...	...	bc ⊕ y a : bc, c y p : c ●⁰ n.
11	A-St : Nb.	A-Cu : Cu.	A-Cu : Ma-Cu : Cu.	10	9	9	9	8	9	i	j	k	j	k	j	●	...	...	...	...	...	c ● a : c, c y p : c y, c n.
12	St-Cu.	A-Cu : Cu : St-Cu.	A-Cu : Cu-Nb : Nb.	9	9	7	9	8	4	k	k	k	k	k	k	...	...	...	...	...	...	c, bcy a : bcy, cp ● p : bc, cp ● to b n.
13	A-Cu.	A-Cu : Cu.	A-Cu : Cu : St-Cu.	1	2	7	9	8	7	k	k	k	k	k	k	...	...	...	●⁰	...	...	bqtocqy a : bc, cp ●⁰ p : c, bcp ● n.
14	Ci : A-Cu : St-Cu.	A-Cu : Cu-Nb : Nb.	A-Cu : Cu-Nb : Nb.	7	9	9	8	8	8	k	k	k	k	k	j	...	●⁰	●	●⁰	...	...	bc, c p ● a : c p ● p : c p ●⁰ n.
15	Nb.	A-Cu:A-St:Nb-Cuf:Nb.	Cu-Nb : Fr-Nb.	10	10	10	10	9	8	i	H	H	j	j	j	●⁰	...	●	...	●	...	o d, c ● a : c p ● p : c ●⁰ n.
16	Ci-St:A-St:A-Cu.	A-St : Cu : St-Cu.	A-Cu:Cu-Nb:St-Cu.	7	10	9	10	9	5	k	k	k	j	k	k	...	...	...	●	●⁰	●⁰	bc, c ●⁰ a : c p ●, bc p : bc p ●⁰ n.
17	A-Cu : Cu-Nb.	Cu-Nb.	A-St : Nb.	3	8	9	10	10	10	k	l	l	j	j	i	...	●⁰	▲	●⁰	●	●⁰	bc, c p ●⁰ △⁰ a : c p ● △⁰ p : o ● n.
18	Cu-Nb : St-Cu.	A-Cu : A-St : Cu.	A-Cu : Cu.	3	8	9	3	1	2	k	k	k	k	k	j	...	...	...	...	...	...	bc, c a : c, bc, b p : b, bc n.
19	A-Cu : Cu : St-Cu.	Ci : Cu-Nb.	Ci : Cu.	8	9	6	8	6	3	k	k	k	k	k	k	...	...	▲	●⁰	...	...	c, bcp ●⁰△⁰ a : bcp ●⁰ p : bc n.
20	Cu : St-Cu.	A-Cu : Cu-Nb.	Cu-Nb. : St-Cu.	4	6	7	7	3	8	k	k	k	k	k	k	...	...	...	...	...	...	bcp ●²▲ a : cp ●△, bc p : cp ●⁰ b n.
21	St-Cu.	A-St : Cu-Nb : Nb.	Cu-Nb : Nb.	9	9	9	9	10	6	i	k	k	j	k	k	...	...	●⁰	●⁰	●	...	c ●⁰ a and p : c p ● bc n.
22	Cu-Nb : St-Cu.	Cu : Cu-Nb.	Cu-Nb : St-Cu.	8	8	9	8	7	0	k	k	k	l	k	k	...	...	●⁰	...	...	...	cp ●⁰ a : cp ●⁰▲ p : bc, b n.
23	A-Cu : A-St.	A-St:Fr-Nb:St-Cu.	A-Cu : St-Cuf	3	9	9	10	1	5	F	j	k	G	H	H	...	...	...	...	...	...	bc z, c ⊕ a : c ● to b p : b, bc, c n.
24	Ci-Cu : Fr-St.	St-Cu : St.	A-Cu : St.	6	9	8	10	9	9	G	H	i	H	H	H	...	●⁰	...	...	...	...	bc, c ●⁰ a : c, o p : c ●⁰ n.
25	A-Cu : A-St : Nb.	A-St : Nb.	Nb.	9	10	10	10	10	10	H	i	G	G	G	G	●⁰	●⁰	●⁰	...	...	...	c ● a : c ●⁰ p : o n.
26	Nb.	St.	St.	10	10	10	10	10	10	G	H	H	G	E	F	●	...	...	...	...	...	o ●, o a : o p : o f e m ●⁰ n.
27	St-Cu : St.	A-St : Nb.	A-Cu : Fr-Nb.	10	10	10	10	8	4	H	H	j	k	k	k	...	...	●	●⁰	...	...	c, o ● a : c ●⁰ p : bc n.
28	A-Cu : A-St : St-Cu.	A-St : Nb.	A-Cu:St-Cu:Nb-Cuf.	7	9	10	9	8	2	k	k	k	k	k	k	...	...	●	...	...	...	bc, c ● a : c ●⁰ p : c to b n.
29	...	St-Cu.	Ci : A-Cu : St-Cu.	0	1	9	6	5	4	k	l	l	l	l	k	...	...	...	...	...	...	b, bc, c y a : c, bc y p : bc n.
30	A-Cu : A-St : Nb.	Cu-Nb : Fr-Nb.	Cu : Cu-Nb : Nb.	10	9	9	9	9	2	k	k	k	k	j	j	...	...	●⁰	...	●	...	c p ● a : c p ●⁰ p : c p ● to b n.
Mean Cloud Am'nt.				6·3	7·4	7·8	7·7	7·1	5·7													

7h 13h 18h 7h 9h 13h 15h 18h 21h 7h 9h 13h 15h 18h 21h 7h 9h 13h 15h 18h 21h
Cloud Forms. Cloud Amount (All Forms). Visibility. Precipitation. Remarks on the Weather of the Day.

159. Aberdeen. May, 1931.

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	False Ci : A-Cu : St-Cu.	False Ci : Cu-Nb.	Cu-Nb.	6	6	7	6	5	5	k	k	k	k	l	k	...	...	...	...	...	...	bcp ●^{0}△ *a* : bc, cp ●▲ *p* : bcp ●^{0} *n*.
2	A-Cu : Cu : St-Cu.	Cu-Nb.	Ci : Cu-Nb.	1	9	8	8	7	1	k	k	k	k	k	k	...	...	●	...	...	...	b to cp ● *a* : cp ●, bc *p* : bcp ●^{0} b *n*.
3	...	Ci : A-Cu : Cu-Nb.	Ci : Cu.	0	1	2	2	2	3	k	k	m	m	k	k	...	...	...	...	...	...	b ⊔, b *a* : b *p* : b, bc, c ●^{0} *n*.
4	Nb.	A-St : Fr-Nb.	A-Cu : A-St : Cu.	10	10	9	10	9	10	j	i	j	j	j	j	●	●	●	...	...	...	o ● to c *a* : c ●^{0} *p* : c *n*.
5	Ci : A-Cu.	Ci : A-Cu : Cu.	Ci-St : A-Cu : Cu.	3	2	4	6	6	0	k	k	j	j	i	j	...	...	...	...	...	...	bc, b *a* : bc, c u p ● *p* : bc, b *n*.
6	St-Cu : Fr-Nb.	Ci : A-Cu.	Ci : A-Cu : St-Cu.	9	6	6	5	4	6	H	i	j	i	i	i	...	...	...	...	...	...	c ●^{0} bc *a* : bc *p* : bc, b *n*.
7	St.	A-Cu : Cu-Nb.	A-Cu : St-Cu.	10	6	9	9	8	9	H	i	H	H	i	j	...	...	...	●^{0}	...	...	b ⌓, o, bc p ● *a* : c ●^{0} bc *p* : c *n*.
8	A-Cu : A-St : Nb.	St-Cuf.	Ci : Ci-St : St-Cu.	9	9	6	3	4	7	j	i	k	j	j	j	●^{0}	...	...	...	...	...	c ●^{0}, bc *a* : bc, b *p* : bc *n*.
9	...	A-Cu : St-Cu.	A-Cu : A-St : St-Cu.	0	5	1	2	9	10	i	k	k	j	j	i	...	...	...	...	...	...	b ⌓, bc *a* : bc *p* : c *n*.
10	Nb.	Nb.	A-Cu : A-St : Fr-Nb.	10	10	10	10	10	10	H	G	G	H	i	H	●	●	●^{0}	...	...	...	co ● *a* : o c ●^{0} *p* : c *n*.
11	A-St : Fr-Nb.	Cu.	Ci : A-Cu : A-St : Fr-Cu.	10	9	4	3	8	8	H	j	k	l	k	j	●^{0}	...	...	...	...	...	●^{0} c, bc y q *a* : bc, c y *p* : c *n*.
12	A-Cu : A-St : St-Cu.	Ci : A-Cu : Cu-Nb : St-Cu.	Ci : A-Cu : Cu : St-Cu.	9	6	9	8	3	9	i	j	k	k	j	j	...	...	...	...	...	...	bc, c y *a* : c y, bc *p* : bc, c *n*.
13	A-Cu : A-St : St-Cu.	Ci-St : A-Cu : A-St : Fr-Nb.	A-St : Cu : St-Cu.	9	10	9	9	10	9	j	H	j	i	i	i	...	...	...	...	...	...	c p ●^{0} ⊕ *a* : c ⊕ *p* : c ● *n*.
14	A-Cu : A-St : St-Cuf.	A-Cu : Cu-Nb.	A-Cu : Cu : St-Cu.	6	4	6	7	3	4	j	j	k	j	j	j	...	...	...	...	...	...	bc, c p ● *a* : bc p ●^{2} *p* : bc, c *n*.
15	A-Cu : Cu : St-Cu.	Ci : Cu.	Ci : A-Cu : Cu-Nb : St-Cu.	3	6	5	5	3	2	k	l	k	k	k	k	...	...	...	...	...	...	bc y *a* : bc y *p* : bc y, b *n*.
16	St-Cu.	False Ci : Cu-Nb : St.	False Ci : A-Cu : Cu-Nb.	8	5	4	9	3	9	k	k	k	j	j	j	...	...	...	●	...	...	bc p ●^{0} *a* : c ☈● bc *p* : bc, c *n*.
17	A-Cu : Fr-Nb : St-Cu.	Cu : St-Cu.	Ci : St-Cu.	9	9	9	2	2	5	k	k	k	k	k	k	...	...	...	...	...	...	● c *a* : c to b *p* : b, bc *n*.
18	St-Cu.	Cu : St-Cu.	Ci : Cu : St-Cu.	9	9	9	9	5	9	k	k	l	k	k	k	...	...	...	...	...	...	c *a* : c, bc *p* : bc, c *n*.
19	A-Cu : A-St : Nb.	Cu : St-Cu.	Ci : Ci-St : Cu : St-Cu.	9	4	6	4	7	3	k	k	k	l	l	k	...	...	...	...	...	...	c ●^{0}, to bc *a* : bc *p* : bc, c *n*.
20	Cu : St-Cu.	Cu : St-Cu.	Cu : St-Cu.	9	9	9	8	8	2	k	k	k	k	k	k	...	...	...	...	...	...	c p ●^{0}, c y *a* : c, c y *p* : c to b *n*.
21	...	Cu.	Ci : Fr-St.	0	2	0	0	2	5	k	k	k	k	k	j	...	...	...	...	...	...	b, by *a* : by *p* : b, bc, c *n*.
22	St : St-Cu.	St.	St : St-Cu.	10	10	10	8	9	10	k	k	j	j	j	i	...	...	...	...	...	...	co *a* : oc *p* : co ● *n*.
23	Nb.	Ci : Ci-Cu : A-Cu : Cu-Nb.	St.	10	10	2	5	10	10	i	j	l	k	H	H	●	...	...	...	...	●^{0}	o c ●, bc, b *a* : b, bc, o *p* : o ● *n*.
24	A-St : Nb.	A-St : A-Cu : St.	A-St : Nb.	10	10	10	10	10	6	i	H	G	G	G	i	●^{0}	...	...	●	●	...	o ●, o d, c *a* : c ●^{2} *p* : c ● bc *n*.
25	Ci : Cu : St-Cu.	Ci : Ci-Cu : Cu.	Cu : St-Cu.	6	6	4	3	3	0	k	i	j	k	j	j	...	...	...	...	...	...	bc *a and p* : b *n*.
26	Ci : A-Cu : Cu : St-Cu.	Ci : A-Cu : Cu : St-Cu.	A-Cu : Cu-Nb.	6	4	7	6	3	3	k	k	j	i	i	j	...	...	...	...	...	...	bc, b, bc *a* : bc *p* : bc, b *n*.
27	A-Cu.	Ci : A-Cu.	Ci : A-Cu.	3	6	2	4	1	1	j	i	k	j	i	j	...	...	...	...	...	...	bc ⌓, bc, b *a* : bc, b *p* : b, b ⌓ *n*.
28	St-Cu.	A-Cu : A-St.	A-Cu : A-St.	7	6	8	8	9	10	k	j	j	j	j	j	...	...	...	...	...	...	bc ⌓, c *a* : c *p* : c, o ●^{2} *n*.
29	Cu.	Cu : St-Cu.	St-Cu.	6	4	9	8	8	8	k	l	k	k	k	k	...	...	...	...	...	...	c ●, bc, c *a* : c *p* : c, bc *n*.
30	St.	St.	St-Cu.	10	10	9	2	1	1	j	H	H	i	j	i	...	...	...	...	...	...	o c *a* : c, bc, b *p* : b m ⌓ *n*.
31	St.	St.	St.	10	10	10	10	10	10	G	G	j	i	C	G	...	...	...	...	●^{0}	●	mf ⌓, o *a* : o m f d ●^{0} *p* : o f_2 m ● *n*.
Mean Cloud Am'nt.				7·0	6·9	6·5	6·1	5·9	6·0													

160. Aberdeen. June, 1931.

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	Nb.	A-St : Nb.	A-St : Nb-Cuf.	10	10	10	10	10	10	j	i	i	i	j	j	●	●	●	●	●	...	o to c with ● *a and p* : c *n*.
2	A-Cu : Cu : St-Cu.	A-Cu : Cu : Cu-Nb.	A-St : Cu : Fr-Nb.	9	9	7	9	10	8	k	k	k	k	k	k	...	...	...	...	...	...	c, bc *a* : c *p* : c, bc *n*.
3	Ci : A-Cu : Cu.	Ci : A-Cu : Cu.	Ci-St : A-Cu.	4	5	1	2	8	9	k	k	l	k	k	k	...	...	...	...	...	...	bc, b y *a* : b to c *p* : c ●^{0} *n*.
4	Nb.	A-St : Fr-Nb.	A-Cu : A-St : Cu : St-Cu.	10	10	9	9	9	8	G	G	k	k	j	k	●	●^{0}	...	...	...	...	o d ● c *a* : c *p and n*.
5	A-Cu : Cu.	Cu : St-Cu.	Ci : St-Cu.	9	9	9	8	7	8	k	k	k	k	j	j	...	...	...	...	...	...	c *a* : c, bc *p* : bc, c *n*.
6	St-Cu.	Cu : St-Cu.	A-St : Nb-Cuf : St-Cu.	9	10	10	10	10	10	k	k	k	k	k	j	...	...	...	...	...	●	c *a and p* : c ● *n*.
7	A-St : A-Cu : Nb.	Ci : Ci-St : Cu : St-Cu.	A-Cu : Cu : St-Cu.	10	7	6	4	9	9	k	k	k	k	k	k	●^{0}	...	...	...	...	...	c ●^{0} to bc ⊕ *a* : bc ⊕, c *p* : c *n*.
8	A-Cu : A-St : St-Cu.	A-Cu : Cu.	A-St : A-Cu : Cu : Nb.	10	9	7	8	9	10	k	i	j	j	i	i	...	...	...	...	●^{0}	●	c bc *a* : bc, c ● *p* : c ● *n*.
9	St.	St.	Nb : St.	10	10	10	10	10	10	D	C	G	D	G	G	...	...	...	●	●	...	o f_2 e, o m d *a* : o m f ● *p* : o ● *n*.
10	St.	Cu : St-Cu.	A-St : Nb.	10	10	9	9	10	10	H	i	i	i	H	G	...	...	...	...	...	●	o ●^{0} o, c *a* : c ● *p* : o ● o f e *n*.
11	False Ci : A-Cu.	Cu : St-Cu.	Ci : Cu : St-Cu.	6	8	9	8	6	5	E	j	l	l	l	j	...	...	...	...	...	...	f_2e, bcm cp ● *a* : c, bc *p* : bc *n*.
12	A-Cu.	Ci : A-Cu : A-St : Cu.	A-Cu : A-St : Nb.	7	7	6	8	8	9	i	j	k	j	j	j	...	...	...	...	●^{0}	...	bc *a* : bc, c ●^{0} *p* : c ● bc *n*.
13	Ci : Ci-St : Cu.	A-Cu : Fr-St.	A-Cu : A-St : Fr-St.	7	8	3	9	9	9	k	j	j	G	H	H	...	...	...	...	...	...	bc, c *a* : bc, c *p* : c *n*.
14	A-St : Fr-Nb.	St.	Nb.	10	10	10	10	10	10	G	G	H	H	G	H	●^{0}	...	...	●	●	●^{2}	c, o ●^{0} *a* : o ● *p* : o ●^{2} *n*.
15	A-St : A-Cu : Nb.	Ci : Cu.	Ci : A-Cu : Cu : St-Cu.	9	8	1	3	8	9	k	k	l	l	k	j	●^{0}	...	...	...	...	...	o ☈●^{2}, c to by *a* : b, bc y, c *p* : c *n*.
16	A-St : Fr-Nb.	A-Cu : Cu.	Ci : A-Cu : Cu : St-Cu.	10	10	1	5	5	4	i	i	j	k	k	k	●^{0}	...	...	...	...	...	c ●^{0}, bc, b *a* : bcp ● bc ⊕ y *p* : bc *n*.
17	Ci : Ci-St : A-Cu.	A-Cu : A-St : Nb.	Ci-St : A-Cu : Cu-Nb.	4	8	10	10	9	4	j	j	k	H	k	j	...	...	...	●^{2}	...	...	⌓ bc, ⊕ c *a* : c ●^{2} ⊕ *p* : c, bc *n*.
18	Cu : St-Cu.	A-Cu : Cu-Nb.	Ci : A-Cu : Cu-Nb : Nb.	4	6	8	9	8	9	l	l	j	k	k	k	...	...	...	...	●	...	bc, cp ● *a*, bc, cp ●^{2} *p* : cp ●, c *n*.
19	A-Cu : Cu-Nb : Nb.	A-Cu : A-St : Nb-Cuf.	Cu : St-Cu.	9	8	10	9	9	2	l	l	j	k	k	k	●^{0}	...	●^{0}	...	...	...	c ● *a* : c ●^{0} c *p* : c, bc, b *n*.
20	Cu : St-Cu.	Ci : Ci-St : Cu : St-Cu.	Ci : A-Cu : St-Cu.	9	9	4	10	6	10	k	k	k	i	i	j	...	...	...	...	...	...	bc, c, bc y *a* : bc y c, *p* : c *n*.
21	Ci-Cu : A-Cu : Fr-Cu.	A-Cu : A-St : St-Cu.	Ci-Cu : Cu : St-Cu.	6	5	9	9	8	6	l	l	l	l	l	k	...	...	...	...	...	...	bc, c *a* : c *p* : c, bc *n*.
22	Ci-Cu : Cu : St-Cu.	Ci - Cu.	Ci : Cu-Nb : St-Cu.	5	4	3	7	3	5	l	k	l	k	l	k	...	...	●^{0}	...	...	...	bc y p ●^{0} *a and p* : bc *n*.
23	A-Cu : Cu : St-Cu.	A-St : A-Cu : St-Cu.	A-Cu : A-St : Cu : St-Cu.	7	9	10	9	8	8	k	j	j	j	j	j	...	...	...	...	...	...	bc, c *a* : c p ●^{0} *p* : c ● *n*.
24	Cu : St-Cu.	Cu : St-Cu.	Cu : St-Cu.	3	9	8	5	3	9	l	k	k	l	l	j	...	...	...	...	...	...	c, b, bc, c *a* : c, bc *p* : c *n*.
25	...	...	...	0	0	0	0	0	0	k	k	j	k	k	j	...	...	...	...	...	...	Fine throughout.
26	Cu : St-Cu.	A-Cu : A-St : Cu : St-Cu.	A-Cu : A-St : Cu : St-Cu.	9	8	8	9	9	8	k	j	j	j	j	j	...	...	...	...	...	...	bc, c p ●^{0} *a* : c p ●^{0} *p* : c *n*.
27	A-Cu : Cu.	A-Cu : Cu.	A-Cu : Cu : St-Cu.	4	6	5	4	7	6	l	l	l	l	l	l	...	...	...	...	...	...	Fair throughout.
28	A-Cu : Cu.	Cu : St-Cu.	Cu : St-Cu.	2	2	5	7	5	0	l	l	l	l	l	k	...	...	...	...	...	...	b ⌓, bc *a* : bc y *p* : bc, b *n*.
29	A-Cu : Cu : St-Cu.	A-Cu : Cu-Nb : St-Cu.	Cu-Nb : Nb.	6	4	3	6	9	9	k	l	l	k	j	j	...	...	...	...	...	●^{0}	bc p ● *a* : bc y, c ● *p* : c ● c *n*.
30	St-Cu.	A-Cu : Cu : Cu-Nb.	Ci : A-Cu : Cu : St-Cu.	9	8	5	5	5	6	k	k	k	k	j	j	...	...	...	...	...	...	c, bc *a* : bc *p* : bc *n*.
Mean Cloud Am'nt.				7·2	7·5	6·5	7·4	7·6	7·3													
	7h	13h	18h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	
	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the Weather of the Day.

161. Aberdeen. July, 1931.

Day.	Cloud Forms. 7h	13h	18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	A-St : A-Cu : Fr-Nb.	Ci : A-Cu : Cu : St-Cu.	A-Cu : A-St : Fr-Nb.	9	9	6	9	10	10	H	i	k	j	H	H	●^{0}	●^{0}	...	...	...	●^{0}	c ●^{0} bc *a* : bc, c ● *p* : c ●^{0} *n*.
2	A-St : Fr-Nb.	A-Cu : Cu-Nb : St-Cu.	Cu-Nb : St-Cu.	10	9	9	9	9	9	j	j	k	k	j	k	...	●^{0}	●^{0}	...	...	...	●c p ●^{0} *a* : c p ●^{0} *p* : c p ●^{0}, bc, b *n*.
3	St-Cu.	St : St-Cu.	A-Cu : St.	5	9	10	9	9	9	k	k	j	j	i	j	...	...	...	...	...	...	b, bc ⌓, c *a* : c *p* : c ●^{0} *n*.
4	A-Cu : A-St : Nb : Cu-Nb.	Ci-St : A-Cu : Cu.	A-Cu : Cu : St-Cu.	9	3	7	9	7	1	j	k	j	j	j	j	...	...	...	...	...	...	o●, c●^{0}, bc⊕*a* : bc, c *p* : bc p ●^{0}, b *n*.
5	A-Cu : St-Cu.	Ci : A-Cu : Cu.	Ci-St : A-Cu : St-Cu.	4	7	2	1	5	9	k	j	k	j	j	j	...	...	...	...	...	...	bc, b *a* : b, bc *p* : bc, c *n*.
6	St.	Nb.	Nb.	10	10	10	10	10	10	E	i	i	i	H	H	●	●	●^{0}	●	●^{0}	...	c f, o m ● *a* : o ● d *p* : o d, c *n*.
7	A-Cu : St-Cu.	St.	St.	9	9	10	10	10	10	,j	k	G	H	G	G	...	●^{0}	...	...	...	...	c ●^{0} *a* : o d, o *p* : o *n*.
8	Nb.	St : St-Cu.	Ci : A-Cu : Cu : St-Cu.	10	10	10	8	4	4	i	j	k	k	k	k	●	●^{0}	...	...	...	...	o c ● *a* : c, bc *p* : bc *n*.
9	A-Cu : St-Cu.	A-Cu : Cu.	Ci-Cu : A-Cu : St-Cu.	4	7	1	1	7	9	k	k	l	l	l	k	...	...	...	...	...	...	bc q, b *a* : b q, bc *p* : bc, c *n*.
10	Ci : Cu-Nb : Nb.	Cu : St-Cu.	St-Cu.	9	9	10	6	9	9	k	k	k	k	k	j	...	...	...	...	...	...	c *a* : c, bc, c *p* : c *n*.
11	St-Cu.	A-St : St-Cu.	St.	9	9	9	10	10	10	i	j	k	H	G	F	...	...	...	...	...	...	c *a* : c o *p* : o m f e *n*.
12	St.	Nb.	Nb.	10	10	10	10	10	10	E	F	G	H	i	E	...	●	...	●	...	...	f e, o m ● *a* : o ● *p* : o ● m f *n*.
13	Ci : A-Cu : St-Cu.	Ci-St : A-Cu : Cu.	Ci : Cu : St-Cu.	2	9	9	7	4	6	k	k	j	k	j	j	...	...	...	...	...	...	f●, bc, c p ● ⊕ *a* : bc, c p ●, T ⌒ *p* : bc *n*.
14	A-Cu.	Ci : Cu-Nb.	St.	4	4	1	1	10	10	k	k	k	j	D	D	...	...	...	...	...	...	bc ⌓, b *a* : b, bc, c f e *p* : f e *n*.
15	A-St : St : St-Cu.	St.	Ci : St-Cu : St.	10	10	10	7	3	7	H	i	j	j	j	j	...	...	...	...	...	...	c m, c, o *a* : o, c, bc *p* : bc, c *n*.
16	St : St-Cu.	Nb.	A-St : A-Cu : Fr-Nb.	10	9	10	10	10	9	j	j	j	j	i	H	...	...	...	...	...	...	c o ●^{0} *a* : o, c ●^{0} *p* : c ●^{0} *n*.
17	A-Cu : St-Cu.	A-Cu : Cu-Nb : St-Cu.	A-St : A-Cu : Nb.	8	9	7	9	10	9	k	k	k	j	j	j	...	...	...	...	●^{0}	●^{0}	c, bc ●^{0} *a* : bc, c ●^{0} *p* : c ●^{0} d$_{0}$ *n*.
18	St-Cu : Nb.	Cu-Nb. : Nb.	A-Cu : Nb.	10	10	10	8	9	6	j	i	j	k	j	j	●^{0}	●	●^{0}	...	●	...	c, o ● *a* : c ●^{0}, c *p* : c ● bc *n*.
19	A-Cu : Fr-Nb.	Cu-Nb. : Nb.	A-Cu : A-St : Cu-Nb : Nb.	9	9	9	6	8	8	k	k	l	l	k	k	...	...	...	...	...	...	c ● *a* : c, bc, c ●^{0} *p* : c ●^{0} *n*.
20	Ci : A-Cu : Cu-Nb.	St-Cu : Cu-Nb.	Ci : Cu.	8	9	9	6	2	0	k	k	k	l	l	k	...	...	...	...	...	...	c p ●^{0}, c *a* : c, bc ⊕ *p* : bc, b *n*.
21	A-Cu : Cu.	A-Cu : Cu : St-Cu.	A-St : Cu : St-Cu.	1	4	7	9	10	10	l	l	l	j	j	i	...	...	...	...	...	●^{0}	b, bc *a* : bc, c *p* : c, o ● *n*.
22	A-St : A-Cu.	Ci : A-Cu : Cu : St-Cu.	A-Cu : St-Cu.	9	6	7	9	9	9	j	l	k	k	k	j	...	...	...	...	...	...	c, bc ⊕ *a* : bc ⊕, c *p* : c ●^{0} *n*.
23	Cu : St-Cu.	A-Cu : Cu.	A-Cu : Cu : St-Cu.	2	4	7	8	9	8	l	l	k	k	l	k	...	...	...	...	...	...	b, bc y *a* : bc y, c *p* : c *n*.
24	A-St : Nb.	A-Cu : St-Cu : Cu-Nb.	A-Cu : A-St : St.	9	9	9	10	9	10	j	j	k	i	H	H	●^{0}	...	...	...	...	●^{0}	c ●^{0} *a* : c *p* : c, o f d$_{0}$ *n*.
25	St.	Nb.	St.	10	10	10	10	10	10	D	H	G	C	B	G	●	...	●^{0}	●	●^{0}	●^{0}	f●, c, o ●^{0} *a* : o ● m f$_{2}$ e *p* : f$_{2}$ e o ● *n*.
26	Nb.	Nb.	Nb.	10	10	10	10	10	10	H	j	H	i	H	i	●^{0}	●^{0}	●^{0}	●^{0}	●	...	o ●^{0} *a* : o ● *p* : o ●, c *n*.
27	A-St : Nb.	A-Cu : Cu.	Ci-Cu : A-Cu : Cu-Nb.	10	9	7	8	9	8	i	k	l	k	k	j	●^{0}	...	...	...	...	...	c●, c, bc y *a* : bc y, c p ● *p* : c *n*.
28	A-Cu : Nb.	A-Cu : A-St : Nb.	A-Cu : A-St : Nb.	10	9	10	10	9	8	k	j	j	j	j	j	...	●^{0}	●	●^{0}	●^{0}	...	c ●^{2}, c ● *a* : c, o ●^{0} *p* : c ●^{0} c *n*.
29	A-Cu : Cu-Nb : St-Cu.	A-St : A-Cu : Nb.	A-St : Nb.	8	9	9	9	10	8	k	j	j	j	i	j	...	...	...	...	●	...	c p ●^{0} *a* : c ● *p* : c ●^{0} c *n*.
30	St-Cu.	A-Cu : Cu-Nb : Nb.	A-Cu : Cu-Nb : Nb.	9	7	9	9	9	9	i	j	j	i	j	i	...	...	...	●^{2}	●^{0}	●^{0}	c p ●^{0}, bc *a* : c p ●^{2} *p* : c ●^{0} *n*.
31	Nb.	A-Cu : Cu.	St-Cu : Cu-Nb.	10	9	8	9	9	9	H	i	k	i	i	i	●^{0}	...	...	...	...	...	o ●^{0} c *a* : c *p* *and* *n*.
Mean Cloud Am'nt.				8·0	8·3	8·1	8·0	8·4	8·2													

162. Aberdeen. August, 1931.

Day.	Cloud Forms. 7h	13h	18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	Ci : Ci-St : A-Cu.	A-Cu : Cu-Nb.	A-Cu.	8	4	7	7	5	10	H	H	j	G	H	F	...	...	...	...	...	...	c, bc *a* : bc *p* : bc, o *n*.
2	St.	St-Cu.	...	10	10	9	0	0	9	E	H	j	j	k	j	...	...	...	...	...	...	o f e, o m, c *a* : c, bc, b *p* : bc, c *n*.
3	St.	St.	St.	10	10	10	10	10	10	G	G	H	G	H	F	...	...	...	...	...	...	c, o *a* : o *p* : o, o m, f e *n*.
4	St.	St.	St.	10	10	8	10	10	10	E	F	i	H	E	D	...	...	...	...	...	...	o f e, o m, c *a* : c, o m, f *p* : o f e *n*.
5	St.	St.	St.	10	10	10	10	10	10	E	H	E	D	E	E	...	...	...	...	...	...	o f e, o f, *a* : o f e *p* : o f e *n*.
6	A-Cu : St.	St : St-Cu.	A-Cu : St-Cu.	9	10	9	6	8	9	j	i	k	k	k	k	...	...	...	...	...	...	o f e, c *a* : c, bc, c *p* : c *n*.
7	Ci : A-Cu : St-Cu.	Cu.	Ci : A-Cu : Cu : St-Cu.	8	8	8	7	4	7	k	k	k	k	l	k	...	...	...	...	...	...	c, c y *a* : c y, bc *p* : bc *n*.
8	Nb.	Cu-Nb.	False Ci : Cu : St-Cu.	9	9	7	8	8	1	H	k	k	k	k	k	●	...	...	...	...	...	c d$_{2}$, bc p ●^{0} *a* : bc, c p ●^{0} *p* : c to b *n*.
9	Cu-Nb : St-Cu.	Cu : Cu-Nb.	A-Cu : Cu : St-Cu.	9	9	7	8	9	10	k	k	k	k	k	j	●^{0}	...	...	...	...	...	c p ●^{0}, bc y *a* : bc y, c *p* : c *n*.
10	A-Cu : St-Cu.	Cu : Cu-Nb.	Cu : St-Cu.	8	4	7	4	8	5	k	l	l	l	k	j	...	...	...	...	...	...	c ●, c, bc *a* : bc, c *p* : c, bc *n*.
11	Ci : A-Cu.	St-Cu.	Cu-Nb : St-Cu.	7	8	9	9	9	8	k	k	k	j	k	j	...	...	...	●^{0}	...	...	bc, c *a* : c c ● *p* : c *n*.
12	A-Cu : A-St.	A-St : St-Cu.	A-St : Nb.	10	6	10	10	10	10	k	k	k	F	i	H	...	...	...	●	...	...	c, bc, c *a* : c ● o m d *p* : c, o *n*.
13	Nb.	Nb.	A-Cu : St-Cu.	10	10	10	9	7	8	F	G	G	j	k	j	●^{0}	●^{0}	●^{0}	...	...	...	o, ●^{0}, d *a* : o d$_{0}$, c bc *p* : bc c *n*.
14	St-Cu.	St-Cu : Cu-Nb.	Ci : Cu : Cu-Nb.	10	8	5	1	2	7	k	k	l	l	l	k	...	...	...	...	...	...	c, bc *a* : bc, b *p* : b to c *n*.
15	St-Cu.	Ci : A-Cu : Cu : Cu-Nb.	St-Cu.	8	7	3	6	9	9	k	k	l	l	k	k	...	...	...	...	...	...	c, bc *a* : bc, c *p* : c *n*.
16	A-Cu : A-St : Fr-Nb.	St-Cu : St.	St.	9	9	10	10	10	10	k	k	j	j	j	k	...	...	...	...	...	...	c *a* : c, o *p* : o *n*.
17	St.	St-Cu : Fr-St.	St-Cu : St.	10	10	9	4	9	8	i	i	j	j	j	j	...	...	...	...	...	...	o, c *a* : c, bc, c, *p* : c *n*.
18	St-Cu : Cu-Nb.	A-Cu : Cu-Nb : Nb.	A-St : A-Cu : Nb.	9	9	9	10	10	10	k	j	i	j	H	i	...	...	●	...	...	...	c, c p ● *a* : c ● *p* : c ●^{0}, o *n*.
19	A-St : A-Cu : Fr-Nb.	A-Cu : A-St : St-Cu : St.	A-St : Nb.	10	9	10	10	10	9	i	j	k	i	H	H	...	...	...	●^{0}	●^{0}	●	c ●^{0} *a* : c ●^{0} *p* : c ●^{0} o *n*.
20	Nb.	Nb.	Nb.	10	10	10	10	10	10	H	H	H	G	H	H	...	●^{0}	●	●	●	●^{0}	o d, ●^{2} *a* : o ● *p* : o ● *n*.
21	Nb.	Cu-Nb. : St-Cu.	Ci : Cu-Nb : St-Cu.	10	10	9	10	6	7	i	j	k	j	k	k	●^{0}	●^{0}	...	●^{0}	...	...	o ●, c *a* : c ●^{0}, bc *p* : bc *n*.
22	A-Cu.	Cu-Nb : St-Cu.	Cu : St-Cu.	1	5	9	5	8	3	l	l	l	l	l	k	...	...	●^{0}	...	...	...	b, bc p ●^{0} *a* : bc p ●^{0} *p* : c, bc p ● *n*.
23	Cu : St-Cu.	Cu : St-Cu.	Ci : Cu : St-Cu.	2	8	8	7	9	3	l	k	l	l	l	l	...	...	...	...	...	...	b, bc, c p ● *a* : c, bc, c *p* : bc *n*.
24	St-Cu.	Cu-Nb : St-Cu.	Cu-Nb : St-Cu.	9	9	8	9	7	3	k	k	k	k	k	j	...	...	...	...	...	...	bc, c *a* : c, bc *p* : bc, b *n*.
25	Cu : St-Cu.	A-Cu : Cu-Nb : St-Cu.	A-Cu : Cu-Nb.	3	4	7	5	9	8	k	k	l	i	k	j	...	...	...	...	●	...	b, bc *a* : bc, c p ● *p* : c p ● c b c *n*.
26	A-Cu.	A-Cu : Cu.	Ci : A-Cu.	4	1	2	0	1	0	k	l	l	l	k	j	...	...	...	...	...	...	bc, b *a* : b *p* : b *n*.
27	...	Ci : Ci-St.	A-Cu : A-St.	0	3	6	7	9	9	j	j	j	j	i	i	...	...	...	...	...	...	b ⌓, b, bc *a* : bc, c *p* : c *n*.
28	A-St : St.	Ci-St : A-Cu.	Ci : A-Cu : St-Cu.	9	8	7	6	7	6	i	j	j	k	j	j	...	...	...	...	...	...	c, bc ⊕ *a* : bc ⊕ *p* : bc *n*.
29	Ci-St : A-Cu : St-Cu.	Ci : Cu.	Ci : Cu.	7	7	1	1	1	1	j	k	k	k	j	H	...	...	...	...	...	...	bc, b *a* : b *p* : b, b m *n*.
30	St.	St.	A-Cu : St-Cu.	9	10	10	10	1	2	H	H	i	i	j	i	...	...	...	...	...	...	m f e ⌓, c, o *a* : o, c, bc, b *p* : b *n*.
31	St-Cu.	...	...	9	8	0	0	0	0	i	j	i	k	k	j	...	...	...	...	...	...	bc, c, b *a* : b *p* : b, b ⌓ *n*.
Mean Cloud Am'nt.				8·0	7·8	7·5	6·7	7·0	6·8													

| 7h | 13h | 18h | 7h | 9h | 13h | 15h | 18h | 21h | 7h | 9h | 13h | 15h | 18h | 21h | 7h | 9h | 13h | 15h | 18h | 21h | Remarks on the Weather of the Day. |
Cloud Forms. Cloud Amount (All Forms). Visibility. Precipitation.

163. Aberdeen. **September, 1931.**

Day.	Cloud Forms. 7h	13h	18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	St.	St-Cu : St.	St-Cu.	10	10	10	10	10	10	G	G	i	j	i	i	...	...	...	...	...	...	bc, c, o d_0, c *a* : c *p* : c, o *n*.
2	Nb.	A-St : Nb.	A-St : Nb.	10	10	10	10	10	9	i	i	i	j	i	i	●^{0}	●^{0}	●^{0}	...	●^{0}	...	o ●, c ●^{0} *a* : c ● *p* : c ●^{0}, c *n*.
3	Ci-St : A-Cu : Cu.	A-Cu : Cu : Cu-Nb.	Ci : A-Cu : Cu.	8	8	8	7	6	8	k	k	k	k	k	j	...	...	...	...	...	...	c *a* : c, bc ⊕, p ●^{0} *p* : bc, c *n*.
4	Ci : Cu-Nb.	Ci : Cu : Cu-Nb.	A-Cu : Cu.	7	8	3	4	3	1	k	k	l	k	k	k	...	...	...	...	...	...	bc, cp ●^{0} *a* : bcp ●^{0}, bc *p* : bc, b *n*.
5	A-Cu : A-St : Cu-Nb.	Ci : Cu-Nb.	A-Cu : Cu : St-Cu.	6	7	6	7	2	0	k	k	k	k	k	k	...	...	●^{0}	...	...	...	bc ⊕ c p ● *a* : bc p ● *p* : b *n*.
6	...	A-Cu : Cu-Nb.	Cu : Cu-Nb.	0	3	4	6	6	5	k	k	l	k	l	k	...	...	...	...	...	...	b ⌓, bc p ●^{0} *a* : bc y p ●^{0} *p* : bc *n*.
7	St-Cu.	Cu : St-Cu.	Cu : St-Cu.	8	8	8	8	7	7	k	k	k	k	j	k	...	...	...	...	...	...	c p ●^{0} *a* : c bc *p* : bc *n*.
8	A-Cu : St-Cu.	Ci-Cu : A-Cu : Cu.	Ci-Cu : A-Cu : Cu-Nb.	5	7	6	8	9	7	k	k	k	j	i	j	...	●^{0}	...	...	...	...	bc ⌓, p ●^{0} *a* : bc y, cp ●^{2} g *p* : c, bc *n*.
9	Cu-Nb : St-Cu.	A-Cu : St-Cu : Cu-Nb.	Cu : St-Cu.	1	3	6	4	1	0	k	l	l	l	k	k	...	...	...	...	...	...	bc, b ⌓, bcp ●^{0} *a* : bcp ●^{0} △^{0} *p* : bb ⌓ *n*.
10	Cu : St-Cu.	Cu : St-Cu.	A-Cu : Cu : St-Cu.	1	2	8	6	2	0	j	l	l	l	k	k	...	...	...	...	...	...	b ⌓, b, bc, cy *a* : c, bcy *p* : bcy, b, b ⌓ *n*.
11	A-Cu : A-St : St-Cu.	A-Cu : Cu.	Ci : Cu : St-Cu.	8	5	8	8	7	4	j	k	l	k	k	i	...	...	...	...	...	...	bc ⌓, c ●^{0}, bc y *a* : cy, cp ● *p* : bc b ⌓ *n*.
12	St-Cu : Cu-Nb.	Cu : St-Cu.	Cu : St-Cu.	7	4	7	4	1	0	k	l	l	l	l	k	...	...	...	...	...	...	b ⌓, bc, cp ●^{0}, bc *a* : bc, b *p* : b ⌓ *n*.
13	Ci : St-Cu.	Ci : Ci-St : Cu.	St-Cu : St.	1	3	8	8	9	6	l	l	k	k	j	i	...	...	...	...	...	...	b ⌓, bc, c y *a* : c y, c *p* : c, bc *n*.
14	A-Cu : A St : Fr-Nb.	A-Cu.	Ci : St-Cu.	9	9	2	3	5	5	H	i	j	k	j	i	●^{0}	...	...	...	...	...	bc, c ●^{0}, bc, b *a* : b, bc *p* : bc, c *n*.
15	St-Cu.	A-St : St-Cu.	St.	9	9	9	10	10	10	G	j	j	G	G	F	...	...	...	...	...	...	c *a* : c, o *p* : o d_0 *n*.
16	St-Cu.	A-Cu : A-St : St-Cu.	A-Cu : Cu-Nb : Nb.	9	8	9	10	8	2	i	H	H	G	H	G	...	●^{0}	...	●	...	...	c ●^{0} *a* : c, o ●, c *p* : c, bc, b, bc, c *n*.
17	A-Cu.	A-Cu : St-Cu.	Ci : Ci-St : Cu : St-Cu.	3	2	8	7	9	4	i	k	k	k	k	j	...	...	...	...	...	...	c ●^{0}, bc, b, c *a* : c, bc *p* : c, bc, b, *n*.
18	Ci : St-Cu.	A-Cu : St-Cu.	St-Cu.	1	9	9	7	10	9	G	G	j	k	k	j	...	...	...	...	...	...	b ⌓, to c *a* : c, bc *p* : c *n*.
19	A-Cu : St-Cu.	Cu.	Ci : Cu : St-Cu.	2	1	3	4	4	3	j	k	l	k	k	j	...	...	...	...	...	...	c ●, bc, b, bc y, *a* : bc y *p* : bc y, bc *n*.
20	St-Cu.	Cu-Nb : St-Cu.	Cu : St-Cu.	7	8	9	9	9	8	k	l	k	k	k	j	...	...	●^{0}	...	...	...	bc, c p ● *a* : c *p* : c ● c *n*.
21	Ci : Cu : St-Cu.	Ci-St : Cu.	Ci-St : A-Cu : St-Cu.	8	9	6	5	8	9	k	k	k	k	k	j	...	...	...	...	...	...	c, bc ⊕ *a* : bc ⊕, c *p* : c *n*.
22	A-St : A-Cu.	Ci-Cu : A-Cu : Cu.	A-Cu : St-Cu.	10	9	3	3	8	10	k	k	l	k	k	j	...	...	...	...	...	...	c, bc *a* : bc, c *p* : c *n*.
23	St-Cu : Nb.	St-Cu.	St.	9	9	8	9	9	10	k	k	l	k	k	j	...	●^{0}	...	...	●^{0}	...	c ●^{0}, c *a* : c d^0 *p* : c *n*.
24	St-Cuf.	St-Cu.	Ci : St-Cu.	9	9	9	9	6	4	k	k	l	k	k	k	...	●^{0}	...	...	...	...	c ●^{0}, d_0, c *a* : c, bc, c *p* : bc *n*.
25	St-Cu.	Cu : St-Cu.	A-Cu : St-Cu.	9	10	6	1	1	10	k	k	l	k	k	k	...	...	...	...	...	...	c, bc *a* : bc, b *p* : b to c *n*.
26	St-Cu.	St-Cu.	St-Cu.	9	10	10	9	9	9	k	k	j	i	H	i	...	...	...	...	...	...	Cloudy throughout.
27	St-Cu.	A-Cu : A-St : St-Cu.	A-Cu : St-Cu.	9	9	9	8	7	7	j	j	j	j	j	j	...	...	...	...	...	...	c, c y *a* : c y, bc *p* : bc, c *n*.
28	St-Cu.	A-Cu : A-St : St-Cu.	St-Cu.	9	9	10	9	9	9	k	j	k	k	k	j	...	...	...	...	...	...	c ●^{0}, c *a* : c *p* *and* *n*.
29	St-Cu.	A-Cu : Cu.	St-Cu.	9	9	1	9	8	8	G	G	k	H	H	H	...	...	...	...	...	...	c to b *a* : b to c *p* : c, bc, c *n*.
30	A-Cu : Cu.	St-Cuf : St-Cu.	A-Cu : St.	8	9	10	9	9	4	H	G	H	G	G	i	...	...	...	...	...	...	bc, c *a* : c *p* : c ● bc *n*.
Mean Cloud Am'nt.				6·7	7·2	7·1	7·0	6·7	5·9													

164. Aberdeen. **October, 1931.**

Day.	Cloud Forms. 7h	13h	18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	A-Cu : St-Cu.	A-Cu : A-St : Nb.	A-Cu : Fr-Nb.	3	7	9	9	9	9	j	j	H	k	j	j	...	...	●^{0}	...	...	...	bc, c ●^{0} *a* : c ●^{0}, c *p* : c, c ●^{0} *n*.
2	A-St : Nb.	A-Cu : Cu.	Cu-Nb : St-Cu.	10	10	4	3	1	0	H	k	l	k	k	j	●^{0}	●^{0}	...	...	...	...	c ●, bcy *a* : bcyq, cp ●^{2} ▲^{2}, bc *p* : bp ●^{0}, b *n*.
3	...	Ci : A-Cu : Cu : St-Cu.	A-Cu : St-Cu.	0	0	8	6	2	7	k	k	k	k	j	j	...	...	...	...	...	...	b, bc, c y *a* : c, bc y, b *p* : b, bc, c *n*.
4	St-Cu : St.	Ci-Cu : A-Cu.	Ci : A-Cu.	9	8	6	6	3	7	k	k	k	l	k	k	...	...	...	...	...	...	c ⊕, bc y *a* : bc y, bc *p* : bc *n*.
5	Ci : Ci-Cu : St-Cu.	Ci : Ci-Cu : Cu : St-Cu.	Cu : St-Cu.	4	4	6	1	2	6	k	k	l	k	i	j	...	...	...	...	...	...	bc ⊕ *a* : bc, b *p* : b, bc *n*.
6	St-Cu : St.	St-Cu.	A-St : St-Cu : Fr-Nb.	9	10	10	10	10	10	j	j	i	i	H	H	...	...	...	...	...	●^{0}	c *a* : c, c ● *p* : c, o ● *n*.
7	Cu-Nb : St-Cu.	Ci : A-Cu : Cu.	False Ci : Cu : St-Cu.	1	1	3	3	2	0	k	k	l	k	i	j	...	...	...	...	...	...	o ●, bc, b *a* : bc, b *p* : b *n*.
8	...	A-Cu : Cu : St-Cu.	A-Cu : St-Cu.	0	1	4	9	6	0	l	l	l	i	i	j	...	...	...	...	...	...	b, bc y *a* : bc y, c, bc *p* : bc, b *n*.
9	St-Cu : St.	Fr-Nb.	A-St : A-Cu : Cu-Nb.	10	10	9	9	9	0	j	j	j	j	j	j	...	...	●^{0}	...	...	...	bc, c ●^{0} *a* : c *p* : c, bc, b *n*.
10	Ci : A-Cu.	Ci-St : A-Cu : Cu.	Ci : A-Cu : St-Cu.	1	4	6	5	3	0	k	j	k	k	j	j	...	...	...	...	...	...	b ⌓ bc *a* : bc, b, bc *p* : bc, b *n*.
11	A-Cu : Nb.	A-St : A-Cu : St-Cu.	St-Cu.	9	9	9	9	9	9	j	j	j	j	i	i	...	●^{0}	...	...	...	...	b, bc, c ●^{0} *a* : c *p* : c *n*.
12	A-Cu : A-St : Fr-Nb.	A-Cu : Cu-Nb : Fr-Nb.	Ci-Cu : A-Cu : St-Cu.	9	10	9	10	7	3	i	H	i	j	j	i	...	●^{0}	...	...	...	...	bc, c ● *a* : c, bc *p* : bc *n*.
13	A-St : A-Cu.	Ci : A-Cu : Cu : St-Cu.	Ci : Ci-Cu : St-Cu.	1	1	6	8	2	1	j	j	k	k	j	j	...	...	...	...	...	...	b ⌓, b, bcy *a* : bc, cy, by *p* : bcp ●^{0}, b *n*.
14	A-St : A-Cu : Cu.	St-Cu.	St-Cu.	7	9	9	8	10	9	j	j	k	k	i	H	...	...	...	...	...	...	bc p ●^{0}, c *a* : bc, c *p* : c *n*.
15	St-Cu.	...	...	8	8	0	0	0	0	k	k	k	k	H	G	...	...	...	...	...	...	c, bc, b *a* : b *p* : b, bm *n*.
16	St.	Cu : St-Cu.	...	10	5	1	0	0	0	D	F	j	j	G	H	...	...	...	...	...	...	b f e, bc m, b *a* : b *p* *and* *n*.
17	St-Cu.	A-Cu.	St-Cu.	8	9	8	5	10	10	H	E	j	j	j	j	...	...	...	...	...	●^{0}	bc, c m f *a* : c, bc *p* : bc, c ●^{0}, c *n*.
18	St-Cu.	St-Cu.	...	10	9	8	0	0	6	k	k	k	k	i	i	...	...	...	...	...	...	c *a* : c to b *p* : b, bc, c *n*.
19	Ci : Ci-Cu.	A-Cu : Cu : St-Cu.	A-Cu : A-St : St-Cu.	4	4	9	9	9	9	j	i	i	j	k	j	...	...	...	...	...	●^{0}	bc, c *a* : c *p* : c, c ●^{0} *n*.
20	Cu-Nb : Nb.	Fr-Cu : Cu-Nb.	Cu-Nb.	9	7	6	9	3	8	k	k	k	j	k	k	✲	...	...	●	...	...	c ●, p ✲ ▲, bc *a* : bcy, cp ● *p* : bc, cp ● *n*.
21	Cu-Nb : St-Cu.	Ci-Cu : A-Cu : Cu-Nb.	Ci-Cu : A-Cu : Cu.	9	6	4	7	6	0	k	l	k	k	j	j	...	...	...	...	...	...	bc, cp ● ✲ *a* : bc, cp ●^{0} *p* : bc, c, b *n*.
22	A-Cu : A-St.	St-Cu.	St-Cu.	9	10	9	9	9	8	k	k	j	H	i	i	...	...	...	...	...	...	b to c *a* : c p ●^{0} *p*, c *n*.
23	St-Cu.	A-Cu : Cu : St-Cu.	Cu-Nb : St-Cu.	9	9	7	7	1	8	k	H	j	k	k	k	...	...	...	...	...	...	c, bc *a* : bc, b *p* : b to c *n*.
24	Cu-Nb : St-Cu.	Cu-Nb.	Cu-Nb.	8	1	7	2	1	6	k	k	k	j	k	j	...	...	...	...	...	...	c ●^{2} bcqp ✳ ▲^{0} *a* : bcp ✳ ▲, b *p* : bcp ✳ ✲ *n*.
25	Cu-Nb : Nb.	Cu-Nb : St-Cu.	...	9	1	1	0	0	0	G	k	k	l	k	k	✳	...	...	...	...	...	bc, c ✳, bc, b *a* : b *p* : b ⊔ *n* : ⊠ 4 cm.
26	A-Cu.	Ci : Ci-St.	Ci : A-Cu : A-St.	6	9	6	9	6	8	j	F	k	k	i	j	...	...	...	...	...	...	bc ⊔, c, bc ⊕ *a* : bc y ⊕, c *p* : bc, c ⛉ *n*.
27	A-St : A-Cu : St-Cu.	A-Cu : A-St : Fr-St.	A-Cu : A-St : Fr-Nb.	9	9	9	10	9	9	k	j	j	i	i	H	...	...	...	●^{0}	...	...	c *a* : c ●^{0} *p* : c p ●^{0} *n*.
28	A-St : St-Cu : St.	Cu-Nb : Cu.	Cu-Nb : Nb.	9	1	2	6	8	8	k	k	k	k	k	k	...	...	●^{0}	●^{0}	●^{0}	...	c, bcp ●^{0}, b *a* : bc, cp ● *p* : cp ●, bc *n*.
29	Ci-St : St-Cu : Cu-Nb.	A-St : Nb.	Nb.	9	9	10	10	10	9	k	k	j	H	H	H	...	...	●^{0}	●^{0}	●^{0}	...	c ⊔ ⊕, c ●^{0} *a* : c, o ● *p* : o ●^{0}, c ✲ *n*.
30	Cu-Nb.	Cu-Nb.	Ci-Cu : A-Cu : Cu-Nb.	1	5	2	3	3	6	k	k	l	k	k	j	...	...	...	...	...	...	cp ✳, bcp ▲ *a* : bcp ▲ *p* : bcp ●^{0} ♛ *n* : [⊠ 1 cm.
31	St-Cu.	St-Cu.	A-Cu : St-Cu.	9	7	9	6	7	9	j	H	G	G	H	H	...	...	...	...	...	●^{0}	c, bc, c *a* : c, bc *p* : bc, c ● *n*.
Mean Cloud Am'nt.				6·6	6·2	6·3	6·1	5·1	5·3													
	7h	13h	18h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	
	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the Weather of the Day.

165. Aberdeen. **November, 1931.**

Day.	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the Weather of the Day.
	7^h	13^h	18^h	7^h	9^h	13^h	15^h	18^h	21^h	7^h	9^h	13^h	15^h	18^h	21^h	7^h	9^h	13^h	15^h	18^h	21^h	
1	A-Cu : A-St : St-Cu.	A-Cu : A-St : St.	A-Cu : A-St : St.	6	6	9	9	7	9	j	i	j	j	i	i	...	...	...	...	...	...	c, bc, c a : c, bc p : bc, c q n.
2	St-Cu	St-Cu : St.	A-Cu:A-St:St-Cu:St.	9	9	9	9	9	8	i	i	i	i	H	H	...	...	...	...	...	...	c q, c a : c p and n.
3	Nb.	A-Cu : A-St : Fr-Nb.	A-Cu : Fr-Nb.	10	10	9	9	9	0	i	H	j	k	k	j	...	●^{0}	...	...	...	...	o, c ●^{0}, c a : c ●^{0} p : c, bc, b n.
4	Nb.	Cu : Nb.	...	10	9	7	1	0	4	H	i	j	k	k	j	●	...	...	...	...	...	bc, o ●, c, bc a : bc, c ●^{2}, b p : b, bc n.
5	Ci-St.	Ci-St : A-Cu : Cu : St-Cu.	St-Cu : Cu.	3	3	9	8	6	0	j	i	i	j	i	i	...	...	...	...	...	...	bc, c a : c, bc p : bc, b n.
6	A-Cu : Fr-Nb.	St-Cu : St.	St-Cu : St.	9	8	9	5	9	10	i	i	j	H	H	i	...	...	...	...	...	...	c ●^{0}, c a : c, bc, c p, c n.
7	A-Cu : A-St : St-Cu.	A-Cu : A-St : Nb.	A-Cu : A-St : Nb.	10	10	10	10	10	10	H	F	H	i	i	i	...	●^{0}	...	...	●^{0}	●^{0}	bc, c, o m f ●, c a : c ●^{0} p : c, o ● n.
8	Cu-Nb : Nb.	A-Cu : A-St : Nb.	Nb.	9	10	10	10	10	10	i	H	H	H	H	i	...	●^{0}	●^{0}	●^{0}	●^{0}	...	o, c ●^{0} a : c, o ● p : o ●^{0}, c n.
9	St-Cu : St.	A-St : Fr-Nb.	St-Cu : St.	10	10	10	9	9	10	i	G	i	H	i	i	...	●	...	...	...	●^{0}	c, o ●, c a : c p : c, o ●^{2} n.
10	St-Cu.	A-St : A-Cu : Cu : Fr-Nb.	Cu : Fr-Nb.	9	7	9	9	9	10	i	G	H	H	i	i	...	...	...	...	...	●^{0}	o ●^{0}, bc, c ●^{0} a : c p : c, o ●^{0} n.
11	Nb.	A-Cu : A-St : Cu-Nb.	Cu-Nb : Nb.	10	9	9	9	9	9	i	H	G	H	i	i	...	...	...	●	...	...	o ●^{2}, c ●, u a : c ● p : c n.
12	Ci-St : A-Cu.	A-Cu : Cu.	St-Cu.	8	8	6	8	2	0	k	j	j	k	i	i	...	...	...	...	...	...	c, bc a : bc, c, b p : b n.
13	St-Cu.	Ci-St.	Ci : Ci-St.	5	8	8	6	1	9	j	G	j	i	j	j	...	...	...	...	...	...	bc, c ⊕ a : c ⊕, bc, b p : b to c n.
14	A-Cu : A-St : Nb.	A-St : Nb.	Ci-St : Nb.	9	10	10	9	7	10	i	H	G	G	j	j	...	●^{0}	●^{0}	●^{0}	...	●^{0}	c, c ●$_0$ a : c ●^{0}, bc p : bc, c ● n.
15	Nb.	A-St : St-Cu : St.	A-Cu : A-St.	10	9	10	8	10	7	j	k	k	k	G	H	●^{0}	...	...	...	...	...	o ●^{0}, c a : c p : c bc n.
16	...	Ci : St.	Ci-St : St-Cu : St.	0	0	6	6	6	4	H	F	H	F	F	H	...	...	...	...	...	...	bc, b a : bc ⊕ m p : bc n.
17	St-Cu.	A-Cu : A-St : Cu.	A-Cu : A-St : St-Cu.	10	9	9	9	8	10	i	i	j	j	j	j	...	...	...	...	...	...	Cloudy throughout.
18	St-Cu.	Nb.	A-St : Nb.	10	10	10	10	10	10	k	j	G	H	G	G	...	●	●	●^{0}	●	●	c q o ● a : o, c ● p : c, o ● n.
19	A-Cu.	...	A-St : Fr-St.	5	6	0	1	6	8	j	H	H	H	G	H	...	...	...	...	...	...	o ●^{0}, c, bc, b a : b, bc p : bc, c p ●^{0} n.
20	St-Cu : St.	A-Cu : St-Cuf.	A-St : A-Cu : St-Cu.	9	9	7	9	9	10	j	j	H	H	H	H	...	...	...	...	...	●^{0}	c, bc a : bc, c q p : c q, o ● n.
21	...	A-Cu : Cu : St-Cu.	A-Cu : A-St : St-Cu.	0	2	1	3	8	0	k	i	i	i	i	i	...	...	...	...	...	...	b a : b, bc, c p : c, bc, b n.
22	A-Cu : St-Cu.	Ci.	Ci-St : Fr-St.	1	1	1	3	9	10	j	i	i	i	H	H	...	...	...	...	...	...	b ⊔, b a : b, bc, c ⊕ p : c ⩛ n.
23	Nb.	Nb.	Nb.	10	10	10	10	10	10	i	H	i	H	H	H	●^{0}	●	●	●	●	●	c, o q ● a : o ● p : o ● n.
24	St-Cu.	Ci.	Ci : A-Cu : St-Cu.	9	3	2	5	8	9	k	k	j	j	j	H	...	...	...	...	...	●^{0}	o ●, c, bc, b a : b, bc, c p : c ●^{0} n.
25	Cu : St-Cu.	Ci : Ci-Cu : Cu-Nb.	A-Cu : A-St.	1	1	8	8	9	10	j	i	j	i	H	H	...	...	...	...	...	●^{0}	
26	A-St : Nb.	St.	St.	10	10	10	10	10	10	i	H	i	i	i	H	●^{0}	...	...	...	...	●^{0}	c ●^{0}, c a : c, o p : o ● n.
27	Nb.	Cu-Nb : Cu.	Cu-Nb : St-Cu.	10	8	5	1	1	7	i	H	k	j	j	j	...	...	...	...	...	...	o ●, c, bc a : bc, b p : b, bc, c n.
28	Cu.	St-Cu : Cu-Nb.	St-Cu : Fr-St.	3	7	6	9	9	10	j	i	j	j	j	j	...	...	...	...	...	...	c, bc a : bc. c p : c p ●^{0}, c n.
29	A-St : St-Cu : St.	A-St : Cu-Nb : St-Cu.	St-Cu : St.	10	10	9	10	10	8	k	j	j	i	i	i	...	...	...	...	...	...	c a : c p ●^{0} p : c, bc n.
30	Ci : Ci-St.	...	...	6	6	0	0	0	0	k	i	i	i	F	F	...	...	...	...	...	...	bc ⩛, b a : b p : b n.
Mean Cloud Am'nt.				7·4	7·3	7·3	7·1	7·3	7·4													

166. Aberdeen. **December, 1931.**

Day.	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the Weather of the Day.
	7^h	13^h	18^h	7^h	9^h	13^h	15^h	18^h	21^h	7^h	9^h	13^h	15^h	18^h	21^h	7^h	9^h	13^h	15^h	18^h	21^h	
1	Ci-St.	A-Cu : St-Cu.	St-Cu.	6	7	8	1	2	0	j	i	H	H	H	j	...	...	...	...	...	...	bc ⩛, bc, c a : c, bc, b p : b, bc n.
2	Nb.	A-Cu : A-St : St-Cu.	St.	10	10	9	9	10	10	j	j	H	j	i	H	●^{0}	...	...	...	●^{0}	●^{0}	bc, c ●^{0} a : c, o ●^{0} p : o ● n.
3	Nb.	A-Cu : Fr-Cu.	A-Cu.	10	10	3	8	2	0	j	i	j	j	j	j	●^{0}	●	...	...	...	...	o q ●, bc a : bc, c p ●, b p : b n.
4	Cu : St-Cu.	Ci : A-Cu.	A-Cu : A-St : St-Cu.	6	6	2	6	9	3	k	k	k	k	i	j	...	...	...	...	...	...	b, bc, b a : b, bc, c p : c, bc n.
5	...	A-Cu : A-St : Nb.	A-Cu.	0	6	9	9	1	0	k	H	j	j	k	k	...	...	●^{0}	...	...	...	b, bc, c ●^{0} a : c ●^{0}, bc, b p : b n.
6	A-Cu : St-Cu.	Ci : A-Cu : Cu.	A-Cu : Cu-Nb.	8	9	3	1	1	1	j	k	j	j	k	k	...	...	...	...	...	...	bc p ●^{0}, c, bc a : bc, b p : b n.
7	St-Cu.	Ci : A-Cu : St-Cu.	A-Cu : A-St.	7	8	7	8	9	10	j	j	k	j	H	j	...	...	...	...	...	...	b, bc, c a : bc ●^{0}, c p : c ●^{0} c n.
8	A-Cu.	A-Cu : St-Cu.	A-Cu.	1	4	1	2	1	1	j	i	k	j	j	j	...	...	...	...	...	...	c, bc, b a : b p and n.
9	A-Cu : A-St : St-Cu.	A-Cu : St-Cu.	A-Cu : A-St : Fr-Nb.	7	5	6	8	9	10	j	j	k	j	j	i	...	...	...	...	...	...	bc, c ●^{0}, bc a : bc c ●^{0} p : c, o ● n.
10	A-St : St-Cu.	Ci:A-Cu:A-St:St-Cu.	A-Cu : St-Cu.	8	8	8	8	6	1	k	k	k	k	j	j	...	...	...	...	...	...	o ●, c a : c, bc p : bc, b ⌓ n.
11	Ci-St : A-Cu.	...	Ci.	5	1	0	3	4	0	j	j	F	j	H	i	...	...	...	...	...	...	b ⌓ bc, b f z a : b z, bc f p : bc, b ⌓ n.
12	A-Cu : St-Cu.	Nb.	Ci : A-Cu.	7	9	9	5	2	4	j	j	j	j	j	j	...	...	...	...	...	...	bc, c ●^{0} a : c, bc, b p : b, bc n.
13	A-Cu.	Ci : A-Cu.	Ci : A-Cu.	1	1	1	1	2	9	j	i	i	i	H	H	...	...	...	...	...	...	bc, b, b z f a : b p : b, bc, c, n.
14	A-Cu : A-St.	Ci : A-Cu : St-Cu.	Ci : A-Cu : St-Cu.	2	7	8	8	4	9	i	H	j	j	j	j	...	...	...	...	...	...	b, bc, c a : c, bc p : bc, c d$_0$, p ●^{2}, bc n.
15	St-Cu : Cu-Nb.	Ci : A-Cu : Cu-Nb : St-Cu.	St-Cu.	8	5	7	9	9	9	j	k	k	k	j	j	●^{0}	...	...	...	...	...	bc p ●^{0} a : bc, c p : c n.
16	St-Cu.	St-Cu.	A-Cu.	9	9	9	9	5	2	j	H	j	j	k	j	...	...	...	...	...	...	c a : c, bc p : bc, b n.
17	St-Cu.	Ci : Ci-St : St-Cu.	St-Cu.	8	2	4	7	9	2	H	E	G	G	H	i	...	...	...	...	...	...	bc, c, b f, bc a : bc, c p : c, bc, b n.
18	Ci-Cu.	A-Cu.	Nb.	1	2	1	9	10	10	i	H	H	G	G	H	...	...	...	...	●^{0}	●^{0}	b a : bc, c, o ●^{0} p : c ●^{0} n.
19	St-Cu.	St.	...	9	9	10	4	0	0	i	H	F	E	D	G	...	...	...	...	...	...	c ●^{0}, c, o a : o, c, bc f p : b f, m, b n.
20	St-Cu.	St-Cu.	St.	6	7	9	9	10	9	k	j	i	H	G	i	...	...	...	...	...	...	b, bc f, m, c a : c, c m, f p : o, c n.
21	St-Cu.	Cu : St-Cu.	St-Cu.	8	9	5	7	4	0	k	k	j	G	j	k	...	...	...	...	...	...	c, bc a : bc p : bc, b ⊔ n.
22	...	...	St-Cu.	0	0	0	2	9	8	k	H	H	H	H	i	...	...	...	...	...	...	b ⊔, b a : b, bc, c p : c, bc, c n.
23	St-Cu.	Ci-St:A-Cu:A-St:Cu.	A-Cu : A-St : Nb.	9	9	7	8	9	10	k	j	i	i	H	j	...	...	...	...	●	...	c q bc ⊕ a : bc, c ●^{0} p : c ●^{0}, c n.
24	A-Cu : A-St.	Ci-Cu : Fr-Cu.	Ci-Cu : A-Cu : Cu : St-Cu.	6	9	4	7	2	1	j	i	l	k	k	j	...	...	...	...	...	...	c, bc a : bc, c p ●^{0}, b p : b n.
25	Ci-Cu : St-Cu.	Ci-St:Cu-Nb:St-Cu.	A-St : Nb.	5	3	9	9	8	4	j	k	k	j	j	k	...	...	...	●^{0}	●^{0}	...	b, bc, c a : c ●^{0} p : c ●^{0} bc, b n.
26	St-Cu.	A-Cu : St-Cu.	Ci-St : A-Cu : St-Cu.	9	9	8	7	8	9	j	j	j	l	k	k	...	...	...	...	...	...	bc, c a : c, bc, c p : c n.
27	St-Cu.	A-Cu : A-St : St-Cu.	St-Cu.	9	8	9	8	6	7	k	k	k	k	k	k	...	...	...	...	...	...	c a and p : bc ⩛, c q n.
28	Nb.	Ci : Cu-Nb.	Cu-Nb.	9	8	9	4	9	7	H	j	k	k	G	H	✱^{0}	...	✱^{0}	...	✱	...	c q ●^{0}, c ✱^{0} a : c p ✱, bc p : c ✱, bc n : ⊠ 1 cm.
29	A-St : Nb.	Cu-Nb : Cu.	Cu-Nb : Nb.	10	9	5	9	7	3	j	j	j	j	j	j	...	⊛^{0}	...	✱	...	...	bc, c ⊛ ✱ ▲ a : bc p ✱ △ p : bc p ✱ ✱ n :
30	Cu-Nb.	Ci : Cu-Nb.	St-Cu.	8	3	5	2	1	0	i	j	j	k	k	j	▲	...	...	...	...	...	bc p ✱ ▲ ⊛ a : bc p ✱, b p : b n : [⊠ 5 cm. ⊠ 3 c.m.
31	Ci : Ci-St : A-Cu.	Ci : Ci-St : A-Cu.	Ci-St.	5	7	8	8	4	0	j	k	k	i	H	j	...	...	...	...	...	...	bc p ✱, ⩛ to c a : c ⊕ bc p : bc, b n : ⊠ 2 cm.
Mean Cloud Am'nt.				6·4	6·4	5·9	6·3	5·5	4·5													
Mean Annual Cloud Am'nt.				7·0	7·2	6·9	6·8	6·5	6·2													
	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the Weather of the Day.

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M.O. 350
(Eskdalemuir)

Air Ministry

METEOROLOGICAL OFFICE

THE OBSERVATORIES' YEAR BOOK 1931

Comprising the meteorological and geophysical results obtained from autographic records and eye observations at the observatories at Lerwick, Aberdeen, Eskdalemuir, Cahirciveen (Valentia Observatory), and Richmond (Kew Observatory), and the results of soundings of the upper atmosphere by means of registering balloons.

ESKDALEMUIR

Published by the authority of the
METEOROLOGICAL COMMITTEE

LONDON
PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE

1933

ESKDALEMUIR OBSERVATORY.

Latitude	55° 19′ N.
Longitude	3° 12′ W.
G.M.T. of Local Mean Noon	12h. 13m.

Heights in metres above Sea-Level.

Barometer	237·3
Rain-gauge	242·0
Dines Tube Anemograph	250

Heights in metres above ground.

Thermometer Bulbs	0·9
Sunshine Recorder	1·5
Dines Tube Anemograph	15
Beckley Rain-gauge Rim	0·4

INTRODUCTION.

HISTORICAL.

Early in the twentieth century the increasing artificial magnetic disturbance at Kew Observatory, Richmond, due to the westward extension of the electric tramway system from London, made desirable the establishment of a magnetic observatory in a locality unlikely to be affected, at least for a large number of years, by electric power or traction system. A committee of the Royal Society of London selected a site in the parish of Eskdalemuir, Dumfries-shire, for the new observatory. The nearest towns or industrial centres are Langholm and Lockerbie, distant approximately 16 and 18 miles (26 and 29 km.) by road, and there is no point of railroad within 9 miles (14 km.) of the Observatory. Installation of the instrumental apparatus commenced in the summer of 1908, the Observatory at that time forming a part of the then recently established National Physical Laboratory.

Although the Observatory was established primarily in the interests of the study of terrestrial magnetism the field of geophysical work undertaken has been considerably wider and has included, almost from the beginning, meteorology, atmospheric electricity (mainly atmospheric potential gradient), and seismology. In the earlier years Milne, Wiechert, Omori, and Galitzin seismographs were in operation at Eskdalemuir, but seismological observations ceased in October, 1925, when the three-component installation of Galitzin seismographs was transferred to Kew Observatory. In 1910, when the majority of the various initial difficulties had been overcome, Eskdalemuir passed from the control of the National Physical Laboratory to that of the Meteorological Office. In consequence of this change the meteorological work assumed increased importance, and from the beginning of 1914 the Observatory has served as a telegraphic reporting station of the Meteorological Office.

Summaries of the results of observations made in 1909-10 were published in the Report of the Observatory Department of the National Physical Laboratory, 1909-10. The results for subsequent years are included in the publications mentioned in the Preface to the present volume.

SITE.

Eskdalemuir Observatory, some 3½ miles (5½ kilometres) north-north-west of Eskdalemuir Parish Church in the county of Dumfries-shire, is situated on a rising shoulder of moorland which is bounded on the east by the road leading north to Ettrick and Selkirk, on the west by the small Davington Burn, and at the southern extremity by the small hamlet of Davington.

The hillside in the immediate vicinity of the Observatory slopes generally from the north-west to south-east. The mean height above sea level of the Observatory site is about 800 feet (244 metres). Cassock Hill, slightly more than a mile distant to the north-west, is 1,205 feet (367 metres), while the bench mark at Davington School, $\frac{1}{4}$ mile (0·4 km.) to south-east, is 699 feet (213 metres) above M.S.L. To the east the ground slopes fairly rapidly to the valley bottom, the level of the Ettrick road at a point about $\frac{1}{4}$ mile (0·4 km.) east of the underground magnet house being 682 feet (208 metres). The River White Esk is rather less than $\frac{1}{2}$ mile (0·8 km.) to the east. Immediately beyond the river, and almost due east of the Observatory, Dumfedling Hill rises to a height of nearly 1,200 feet (366 metres) above M.S.L. Some 4 or 5 miles (8 km.) to the north is a high ridge, following approximately the boundary between Dumfries-shire and Selkirkshire, the highest point of which is Ettrick Pen (north-north-west) 2,200 feet (670 metres) above M.S.L. Rather more than half a mile (0·8 km.) to the west, and beyond Davington Burn, the ground rises to 1,040 feet (317 m.), and reaches nearly 1,200 feet (366 m.) half a mile (0·8 km.) further on. To the south and south-south-east the Observatory commands a view of the White Esk Valley as far as Hart Manor, 4 miles ($6\frac{1}{2}$ km.) distant, and beyond that the upper slope of Cauldkine Hill, about 10 miles (16 km.) distant, is visible. The surrounding country is bare and wild and there are but few trees to relieve the monotony of the grass-covered hills and moorland.

Within the Observatory grounds the soil is peaty and in many places is more or less boggy at all seasons. Some two feet, or less, below the surface a clay-like substance containing soft rock is encountered. The local geological formation is described as "rock of the Tarannon Llandovery series traversed by igneous dykes."

Photographs, site plan, and a brief description of the Observatory will be found in the Introduction to *The Observatories' Year Book*, 1928.

METEOROLOGY.

The elements dealt with in the following tables are:—Atmospheric pressure, air temperature, humidity, rainfall, sunshine, solar radiation, wind speed and direction, earth temperature and minimum temperature on the grass. There is also a diary of cloud and weather.

Notes on Instruments.

Brief descriptions of the recording instruments and of the methods of tabulating the records, with notes on the information contained in the Tables, are given in the General Introduction to the Tables. The following particulars, which refer specially to Eskdalemuir, are to be regarded as amplifying the information contained therein. References to full accounts of other instruments used at Eskdalemuir appear below.

The standard Fortin barometer is hung in the north-east ground-floor room, which has a small daily range of temperature. On July 14th it developed a leak in the cistern and was superseded by the former standard Kew pattern mercury barometer, which continued to be used as standard throughout the year.

The photographic mercurial barograph is situated in the east room of the underground magnet house. The daily range of temperature to which the instrument is subject is normally less than 0·05°C., the annual range being about 4°C. The scale value of the records is 1 millimetre on the paper = 0·85 millibar, and the time scale is 9·1 millimetres on the paper = 1 hour.

As in former years, records of pressure were also obtained from (*a*) a Dines float barograph[1], and (*b*) a Richard barograph, pen recording, the records of which are changed weekly.

[1] Q.J.R. Meteor. Soc., Vol. LV, pp. 37-53, 1929.

Temperature.—The photographic thermograph and the standard mercurial thermometers, dry bulb and wet bulb, are situated in a wooden hut, provided with louvred sides and double roof, which is some 200 feet (60 m.) north-north-east of the main building. The installation is similar to that described on p. 10, except that a special enclosure is provided inside the hut to accommodate the optical and photographic arrangements.

The scale values of the thermograph records are $1°A. = 3{\cdot}064$ mm. and $2{\cdot}438$ mm. on the paper for the dry and wet bulb records respectively, while the time scale is 1 hour = 9·250 mm.

Auxiliary records of temperature are obtained from one or more instruments of the bimetallic type described in the *Meteorological Observers' Handbook.* These instruments are situated in the hut which contains the photographic thermograph.

Humidity.—In addition to the dry and wet bulb thermograph described above there is a Richard hair hygrograph which is situated in the louvred hut.

As is stated in the General Introduction, the records from this instrument are utilised when the wet bulb reading does not exceed $273°A$. On the records obtained in 1931 a change of 10 per cent. in relative humidity is represented by about 0·8 centimetre, the time scale being 1 hour = 3 millimetres.

Rainfall.—The recording instrument is a Beckley self-registering rain-gauge, which is described on page 11. The time scale of the record is 1 hour = 9·24 millimetres on the paper and the rain scale has a magnification of 3·35. The instrument has been in use at Eskdalemuir since 1908 and was originally installed at Fort William in July, 1890.

The conical part of the gauge funnel is surrounded by a cylindrical copper casing lined with asbestos on the inner side and of diameter equal to that of the funnel, viz. 11·27 inches (28·6 cm.). Within the enclosure so formed is a gas jet, and a flame of suitable dimensions is maintained, as circumstances dictate, to melt snow which may be collected.

The gauge is surrounded by a circular turf wall or dyke, the top of which is on a level with the rim of the gauge; the external and internal diameters of the dyke being 11·5 feet (3·5 m.) and 7 feet (2 m.) respectively.

A standard 8-inch (20·3 cm.) rain-gauge is situated some 24·5 feet (7·5 m.) to the east of the Beckley gauge and is surrounded by a turf dyke of similar dimensions. Readings of amounts of rain received in the 8-inch gauge are made at 7h and 18h G.M.T. It is customary to adjust the indications of the recording gauge to agree with the readings of the standard check gauge. The old gauge, which was rather battered, was replaced by a new one on July 10.

Until May 14 and again after November 8, 1928 auxiliary autographic records of precipitation were obtained by means of a Hellmann-Fuess snow-gauge. In the former period the exposure of the instrument was as described on p. 142 of *The Observatories' Year Book*, 1927. Since then the gauge has been in a somewhat deeper pit 8 feet (2·4 m.) wide and almost due north of the 8-inch standard gauge, the pit being surrounded by a low wall of earth and turf—the top of the wall being approximately level with the rim of the gauge. The records so obtained are used only in the event of failure or uncertainty of the Beckley autographic record.

Sunshine.—The record of sunshine is obtained from a Campbell-Stokes recorder described on p. 11. A new glass sphere was introduced on July 9.

The recorder is fixed on a stone pillar and has a reasonably free exposure, the chief obstacles being hills to east and west. The elevation of hills between 70° and 110° east of south varies from 2·5° to 5°, while between 50° and 135° west of south the high ground varies in elevation from 3° to 4·4°, being generally about 3·5°. As sunshine can be recorded when the sun is 3° above the horizon only in the most favourable circumstances, it appears that the loss of record occasioned by the neighbouring high ground is of relatively small extent and is confined mainly to a possible defect of record at the beginning of the day during a few weeks centred about the equinoxes.

Solar Radiation.—Measurements of the intensity of radiation received from the sun by a surface which is normal to the line drawn from the instrument to the sun are effected by means of an Ångström compensating pyrheliometer.[1] The intensity of radiation is expressed in milliwatts per square centimetre (1mw. per sq. cm. = 0·01435 gramme calorie per sq. cm. per minute). In addition, the value is given of the function (p/p_0) sec Z, in which p is the barometric pressure at the observatory in millibars at the time of the observation, p_0 is 1000 millibars, and Z is the zenith distance of the sun. This affords a measure of the mass of atmosphere which the solar radiation has had to penetrate before reaching the earth. Entries in the column headed "Sky" are intended to show the presence or absence of haze, mist or cloud in the direct path of the solar radiation recorded.

Wind.—A Dines tube anemograph, furnished with direction recorder, is situated in the main building. The vane-head is 15 metres above a tangent plane to the slope of the hillside and approximately 7 metres above the general level of the roof of the building.

The anemograph vane in use throughout 1931 was introduced in August, 1925. It differs from that formerly in use in that the greatest dimension of the fin is vertical instead of horizontal, and that the cross-section of the fin is of aerofoil shape. A twin-lever direction recorder has been in use since June, 1925. In this instrument a pen is carried by each of two pivoted arms, upper and lower. A projection from each arm engages with a flange of a dual helix cut in a short cylinder (of vertical axis) which rotates with the vane, being connected thereto by a steel tube 1·5 cm. in external diameter.

Apart from the surrounding hills, the exposure of the vane-head is tolerably free in all directions save to the west where at a distance of some 130 feet (40 m.) is a rather large building, of which the height is somewhat greater than that of the main building. With winds from nearly due west the direction records show markedly greater turbulence than with other winds.

Earth Temperature.—Readings have been made at 9h G.M.T. of the earth temperature at nominal depths of one foot and four feet below the surface of the grass lawn a few yards south of the thermometer hut. The thermometers and the method of exposure are of the standard type described in the *Meteorological Observers' Handbook.* The depths of the thermometer bulbs below the grass-covered surface of the ground are 30 and 123 cm. In December, 1930 two more thermometers, graduated in degrees absolute were installed at 1 foot and 4 feet respectively alongside the other two thermometers graduated in degrees Fahrenheit, the intention being to replace the Fahrenheit by the absolute pair in 1931. Owing to the 1 foot absolute thermometer sinking into the ground, the 1 foot Fahrenheit thermometer was used as standard.

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[1] For description see *The Observer's Handbook,* 1921, Ed., Meteorological Office, London ; *Astrophysical Journal,* Vol. IX, 1899 ; *Actes de la société royale des Sciences d'Upsal,* 1893 ; also *Geophysical Memoirs,* No. 21 (1923), Meteorological Office, London.

Following some structural repairs to the observatory building, the pyrheliometer was re-erected in an embrasure of the tower in June 1930.

Minimum Temperature on the Grass.—The thermometer used for readings of grass minimum temperature is of the spirit type with index, and when exposed, between 18h and 7h G.M.T., is supported at a height of one or two inches (4 cm.) above close-cropped grass a few metres from the louvred thermometer hut.

Visibility.—The descriptions of the selected visibility objects, together with the distances and bearings from the point of observation, are given in the subjoined table. Auxiliary objects and guide criteria are given in brackets. Certain of the nearer objects may be identified by reference to the photographs and site plan. Unless otherwise stated, the distances and bearings are with reference to certain of the windows on the upper floor of the main building.

The situation of the Observatory and the nature of the immediate surroundings allow of only a very limited choice of objects. The objects A to D are situated mainly to the north, while the more distant objects are towards south to south-east, *i.e.*, down valley. Four miles or so to the north of the Observatory the hills rise in places to rather more than 2,000 feet above sea level and at times visibility in this direction is distinctly less than towards south. On other occasions the hills to the north are visible, but nearer objects down the valley are invisible owing to valley mist. With the exception of the cottage at Finglandshiel, and Cauldkine Hill, the objects more distant than D are below the level of the Observatory. There are no objects at distances which approximate sufficiently closely to the standard distances for objects H, J, and K. . When it is estimated that the range of visibility is such that objects at these standard distances would be visible the corresponding small letter entries are made in the Diary of Cloud and Weather. The estimates of visibility in the dark depend largely on the judgment of the observer. There are no lights other than those in the Observatory buildings and in two cottages within a radius of one mile.

VISIBILITY OBJECTS AT ESKDALEMUIR.

Object.	Description.	Distance.	Bearing.
A	(i) White wooden post	25 yards	NE.
	(ii) Twigs on trees nearest the boundary wall in front of the main building	25 ,,	S.
	(iii) Small thermometer screen—viewed from steps facing the back entrance to the main building	26 ,,	NNE.
B	(i) Theodolite pillar	55 ,,	N.
	(ii) Chimney (or cowl) on the large thermometer screen ..	60 ,,	NE.
C	Posts and shafts on underground magnetograph house ..	107 ,,	N.
D	Standards on Observatory water reservoir	217 ,,	NNW.
E	(i) Church and Manse, Davington	550 ,,	SE.
	(ii) (Davington Farm House)	470 ,,	SSE.
F	(i) Chimneys at Burncleuch	1180 ,,	SSE.
	(ii) (Cottage at Finglandshiel)	1550 ,,	NE.
G	Trees at Garwaldwaterfoot	2160 ,,	SSE.
H (h)	(Lower slope of Raeburn Hill)	$2\frac{1}{8}$ miles	SSE.
I	Hart Manor	4 ,,	SSE.
J (j)	(Cauldkine Hill, 1,478 feet, near Westerkirk; not clearly visible)	$10\frac{1}{2}$,,	SSE.
K (k)	(Cauldkine Hill, 1,478 feet, near Westerkirk; plainly visible)		
L (l)	No objects available		
M (m)			

Note.—The descriptions of auxiliary objects and guide criteria are given in brackets.

IDENTIFICATION NUMBERS OF INSTRUMENTS IN USE IN 1931.

Standard Barometer—		
January 1—July 14. Fortin Barometer	M.O.	1716/27
July 14—December 31. Kew pattern Barometer	M.O.	1320
Standard Dry Bulb Thermometer	M.O.	19123
Standard Wet Bulb Thermometer	M.O.	1695
Hair Hygrograph	M.O.	59
Recording Beckley Rain-gauge		4
Control Rain-gauge—		
January 1—July 10	M.O.	391
July 10—December 31	M.O.	336/30
Control Rain-gauge, glass for	M.O.	1568
Campbell-Stokes Sunshine Recorder	M.O.	99
Ångström compensating Pyrheliometer		116
Dines Tube Anemograph	M.O.	1032
Grass Minimum Thermometer	M.O.	23008
Earth Thermometer, 1 Ft.	M.O.	18334/27
„ „ 4 Ft.	M.O.	4

CORRECTIONS TO INSTRUMENTS IN USE IN 1931.

The corrections to the instruments in use during 1931 are given below. In all cases the corrections are those given in the certificate of examination issued by the National Physical Laboratory. The corrections here given have been applied. The date on which each of the instruments mentioned was brought into use is given for purposes of reference.

Fortin Barometer, M.O. 1716/27. January 1st, 1929.

at	880	910	940	970	1,000	1,030	1,050	mb.
	+0·05	+0·05	+0·05	+0·05	+0·10	+0·10	+0·05	

Attached Thermometer, No. 5592. January 1st, 1929.

at	273	278	283	288	293	298°A.
	0·0	—0·1	—0·2	—0·3	—0·3	—0·2

Kew pattern Barometer, M.O. 1320, July 14, 1931.*

at	920	940	960	980	1000	1020	1040	1060	mb.
	—0·4	—0·3	—0·2	—0·1	—0·1	—0·0	+0·1	+0·1	

attached thermometer : +0·1 at 290°A.

Dry Bulb Thermometer, M.O. 19123. January 27th, 1919.

at	263	268	273	278	283	288	293	298	303°A.
	+0·2	+0·1	0·0	0·0	0·0	—0·1	—0·1	—0·1	—0·1

* These corrections, if applied to readings of the barometer, would bring the readings into agreement with the atmospheric pressure, provided the instrument were at a temperature of 273°A. (0°C.) and in latitude 45°.

Wet Bulb Thermometer, M.O. 1695. May 17th, 1930.

at	253	263	273	283	293	303	313°*A*.
	0·0	0·0	—0·1	0·0	0·0	0·0	0·0

Grass Minimum Thermometer, M.O. 23002 at

253	263	273	283	293	303°*A*.
—0·1	—0·1	0·0	0·0	0·0	—0·1

Earth Thermometer 1 Ft. M.O. 18334/27, from 27° F. to 42° F., +0·1.
,, ,, 4 Ft. M.O. 4, from 260 to 310°*A*., +0·1.

Note on the Reduction of Barometer Readings.

The Fortin barometer, M.O. 1716/27 by Casella, London, has been used as the standard since 1st January, 1929. Before this date a Kew pattern mercury barometer M.O. 1320 by J. Hicks, London, was the standard instrument from 16th December, 1913.

The latter was re-introduced on July 14, when the Fortin barometer developed a leak and was sent away for repair.

1. *Reduction to Pressure at Station Level.*—The corrections for index error (including those for capacity and capillarity) as given in the N.P.L. certificates are reproduced above. The corrections for temperature for both barometers are those given in the *International Meteorological Tables* as appropriate to a Fortin barometer. The adoption of such corrections for a Kew pattern barometer, although technically incorrect, would not lead to appreciable systematic error in actual practice. The table of corrections to the barometer readings on this account for various readings of the attached thermometer is as set out in *The Observatories' Year Book*, 1928.

The corrections for the variation of gravity as obtained from the expression

$$g = 980{\cdot}617\ (1 - {\cdot}00259 \cos 2\lambda)\ (1 - 5z/4E)$$

where λ = latitude
z = height of the station.
E = earth's radius

are as follow :—

at reading of	900	920	940	960	980	1000	1020	1040	mb.
Correction	+·78	+·80	+·81	+·83	+·85	+·87	+·88	+·90	mb.

2. *Reduction to Mean Sea Level.*—The correction to reduce pressure at station level to pressure at sea level is calculated according to the usage of the *International Meteorological Tables* with certain minor modifications which are set out in *The Observatories' Year Book*, 1928. In the same volume is given a copy of the Table actually in use.

Notes on the Meteorological Summaries.

The number of years for which meteorological results are available is insufficient as yet to yield a completely representative set of normal values. Although certain meteorological data are available for 1909 and 1910 it is only since 1911 that the reductions have been made in accordance with an approximately uniform plan. In the following notes the normal or average values referred to are for the period 1911 to 1926, unless otherwise stated.

Pressure.—The mean pressure for the year was slightly above normal, the increase being 0·7 mb. Considerable deviation occurred among the individual months, and the increase was due chiefly to the decidedly high mean pressures of September, October and December. The extreme instantaneous values recorded were 1009·6 mb. on September 25, and 940·3 mb. on November 10 and 11. The greatest and least mean daily values are 1008·8 mb. on September 25, and 943·1 mb. on November 10. The largest value of the range during a calendar day is 26·6 mb. on February 11. The mean value of the absolute daily range of pressure varies between 10·8 mb. in November, and 4·9 mb. in May. The annual mean value of the daily range is a little above normal.

Pressure (Diurnal Variation).—In the mean diurnal inequality for each month there are two maxima, in the late forenoon and usually an hour or two before midnight, and two minima, in the early forenoon and afternoon. In all months, except January, February and November, the night maximum of the representative inequalities for the years 1911–20 is the larger. In 1931 the principal maximum occurred at night in only five months, March, May, July, August and September. The principal minimum in the representative inequalities is in the afternoon except in February, March, August and November, but in 1931 the principal minimum falls in the early forenoon in January, February, June, July, October, November and December. Compared with the mean diurnal inequality for 1911–20 ([1]) the values of the mean inequality for the year 1931 are algebraically greater from 8h to 19h and less from 20h to 7h. In other words, relatively speaking, in 1931 the early morning and afternoon troughs and the night crest are diminished, while the forenoon crest is enhanced.

The results of the harmonic analysis of the monthly and seasonal mean diurnal inequalities for 1931 are given in the accompanying table. For purposes of comparison the corresponding data ([1]) derived from the mean inequalities for the period 1911–20 are also given. In computing the Fourier coefficients for 1931 the unit employed was ·001 mb. Although for 1931, as for recent years, the phase angles are given to the nearest 1°, this course is scarcely justified, at least for the third and fourth components, by the character of the data from which the harmonic coefficients for the months and seasons of a single year are computed. The phase angles α_1 etc. given in the table below refer to Local Mean Time, whereas in the corresponding tables for 1922 and 1923 the phase angles refer to Greenwich Mean Time.

As is usually the case the amplitude and phase of the 24-hour term fluctuate irregularly from month to month. The ratio of the mean of the twelve monthly values of c_1 to the value of c_1 for the year as a whole considerably exceeds unity. c_1 is noticeably high for January and for April, low for February and September. The values of c_2 for the year, equinox and summer, are nearly equal to the corresponding normals, that for winter being higher. The variation in the 8-hour term from month to month is fairly normal, the amplitude being largest in winter months and least at the time of equinoctial phase transition.

([1]) "On the Diurnal Variation of Atmospheric Pressure at Eskdalemuir and Castle O'er, Dumfriesshire," by A. Crichton Mitchell, D.Sc., *Quarterly Journal of the Royal Meteorological Society*. Vol. I, No. 210, April, 1924.

HARMONIC COEFFICIENTS OF THE DIURNAL INEQUALITY OF ATMOSPHERIC PRESSURE—ESKDALEMUIR, LONGITUDE 3° 12′ W.

Values of c_n, α_n in the series $\Sigma c_n \sin (15nt^0 + \alpha_n)$, t being Local Mean Time reckoned in hours from midnight.

Month and Season.	c_1		α_1		c_2		α_2		c_3		α_3		c_4		α_4	
	1931.	1911–20.	1931.	1911–20.	1931.	1911–20.	1931.	1911–20.	1931.	1911–20.	1931.	1911–20.	1931.	1911–20.	1931.	1911–20.
	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°
Jan.	·31	·094	231	346·4	·24	·235	145	151·6	·14	·125	1	345·3	·06	·046	248	213·9
Feb.	·07	·118	198	215·1	·32	·273	157	138·1	·10	·083	349	341·2	·02	·042	170	67·7
Mar.	·11	·128	56	185·3	·32	·304	146	145·3	·05	·053	307	335·0	·04	·051	43	24·5
Apr.	·34	·205	25	92·3	·28	·299	159	154·8	·02	·022	198	156·3	·08	·045	8	355·7
May	·23	·225	74	52·7	·29	·270	155	147·4	·05	·075	155	160·1	·04	·035	315	330·1
June	·26	·152	235	53·9	·21	·234	159	146·1	·07	·084	157	160·6	·01	·018	180	325·7
July	·14	·171	163	69·4	·16	·211	139	141·2	·07	·077	142	155·8	·01	·023	27	300·0
Aug.	·13	·114	97	114·6	·29	·239	150	147·7	·06	·057	169	157·2	·03	·047	359	330·8
Sept.	·05	·121	97	87·7	·28	·313	153	151·6	·02	·012	18	110·7	·04	·050	354	344·7
Oct.	·14	·110	259	76·0	·31	·315	150	159·5	·06	·060	8	8·2	·02	·041	355	32·9
Nov.	·12	·125	244	183·5	·29	·242	168	168·1	·09	·101	15	9·2	·01	·015	162	146·2
Dec.	·12	·137	267	97·1	·22	·213	154	146·9	·14	·124	357	4·2	·08	·067	223	212·8
Arithmetic mean	·17	·142	...	...	·27	·262	...	...	·07	·073	...	...	·04	·040	...	...
Year	·023	·085	213	90·8	·266	·260	153	150·1	·028	·020	13	41·7	·013	·016	322	341·9
Winter	·148	·038	237	165·4	·267	·236	156	150·9	·116	·106	1	355·5	·036	·023	222	189·1
Equinox	·091	·108	24	103·9	·296	·306	152	152·8	·025	·021	340	4·4	·043	·044	9	8·9
Summer	·076	·153	141	67·2	·236	·238	151	145·8	·062	·074	155	158·5	·016	·030	341	324·3

NOTE.—*Winter* comprises the four months January, February, November, December.
Equinox the months March, April, September, October.
Summer the months May to August.

Temperature.—The mean temperature, 279·71°*A*. (44°·1 F.) for the year 1931 is slightly lower than the normal value. The extreme temperatures recorded during the year were 296·1°*A*. (73°·6 F.), on August 6, and 260·9°*A*. (10°·2 F.), on March 2. January 7 with mean daily temperature of 267·9°*A*. (22°·8 F.) was the coldest day of the year. According to the mean daily temperature August 6 with 290·0°*A*. (62°·6 F.) was the hottest day of the year. The minimum temperature was 273·0°*A*. (32°·0 F.), or less, on 127 days, 70 being in the first three months of the year. There were only four "ice-days," *i.e.*, days with maximum temperature below 273·0°*A*.

The values of the absolute range of temperature within a calendar month vary between 28·5°*A*. (51°·3 F.) in March, and 15·2°*A*. (27°·7 F.) in July.

Humidity.—As is mentioned in the General Introduction, owing to a change in the hygrometric tables used the results from 1926 onward are not strictly comparable with those of earlier years. Compared with the mean values for 1911–25 the chief departures of the values of mean relative humidity in 1931 are +5 in June and November, and −4 in March. The mean relative humidity 83·5 per cent., for the year, is slightly less than that for the years 1911–25, whilst the mean vapour pressure, 8·2 mb., is slightly smaller than the mean for the years 1922–30. The extreme daily mean values of relative humidity and vapour pressure were 99·1 per cent. on March 22, 57·8 per cent. on April 1, 15·2 mb. on August 6, 3·3 mb. on January 6. The lowest hourly reading of relative humidity was 24 per cent. on April 6.

Precipitation.—1931 was slightly drier than normal, the total amount of rainfall, 1550·1 mm. (61·03 in.), being 1·1 per cent. less than the mean for the period 1911–30. The most outstanding months were November with 286·0 mm. (11·26 in.) and June with 260·4 mm. (10·25 in.). The driest month was March with 28·4 mm. (1·12 in.) or 27 per cent. of normal. The greatest amounts recorded during a calendar day were 63·8 mm. (2·51 in.) on November 3, and 63·6 mm. (2·50 in.) on June 14. These falls both exceeded the record of 63·5 mm. on July 7, 1916, and caused extensive floods. There were 124 days on which either no precipitation was recorded or in amounts too small to be measured. Precipitation amounting to 0·2 mm. or more was recorded on 241 days; to 1·0 mm. or more on 191 days; to 20·0 mm. or more on 18 days.

Snow or sleet fell on 73 days, but on no day from May 6 to October 23 inclusive. Observations of "snow lying" at 7h number 22, 8 of which were in February and 7 in March. There were no large falls of snow.

Sunshine.—The year's total duration of bright sunshine, 1066·2 hr. represents 24 per cent. of the theoretically "possible" duration; whereas the average percentage of "possible" for the years 1911–30 is 26·9. As regards the percentage of "possible" October was the sunniest, and December the least sunny month of 1931. In all, there were 95 days without sunshine, 19 of these being in December, and 14 in November, and 67 days with 50 per cent. or more of the "possible" sunshine. The day with most sunshine was June 25, with 14·7 hr. October 25 with 9·1 hr. (93 per cent.) represents the highest value of the percentage of "possible" sunshine.

Wind.—The mean speed for the year, 4·9 m/s (11·0 mi/hr) was less than the normal. In comparison with the normal values for individual months the mean speeds for July and October exhibit the most considerable excess, and those for January and March the greatest relative deficiency. There were 35 hours of gale force (mean speed greater than 17·1 m/s), 13 being in February. The highest gust of the year, 34 m/s (75 mi/hr) occurred on January 16, the highest hourly speed, 21 m/s (47 mi/hr) on February 12, and highest mean daily speed, 15·1 m/s (33·8 mi/hr) on February 12. The quietest days were January 7 and December 17, with a mean speed of less than 0·5 m/s.

There was a marked predominance of winds between south and south-west, in all months except March, April, August and September, when the prevailing direction was northerly. March was conspicuous by the dearth of westerly winds (between south-south-west and north-north-west).

Grass Minimum Temperature.—There were 135 occasions of ground frost (*i.e.*, grass minimum temperature not greater than 272·1°*A*. or 30°·4 F.), but none of these occurred between June 30 and August 23. The lowest grass minimum temperature was 259·2°*A*. (7·2 F.) on March 2. The mean grass minimum temperature for each of the months January, February, March and April is less than 273·0°*A*. (32°·0 F.).

Cloud and Weather.—(A) The mean amount of cloud observed at the six hours of observation is 7·7, which is equal to the normal. July has the largest mean amount, 8·8, and October has the smallest, 6·2. The largest mean amount for an observational hour is 9·3 at 7h in July; the least is 5·4 at 21h in March. For the year as a whole there was most cloud at 13h and least at 21h. In nine months the mean cloud amount was least at 21h, but there was no consistent hour of maximum cloud amount. October 16 and 25 are the only days of the year on which no cloud was seen at the normal hours of observation. On 45 days the amount 10 was recorded at every hour of observation.

(B) Thunder was heard on 14 days, while there were observations of solar halo on 13 days, of lunar halo on 11 days, and of aurora or auroral glow on 5 days.

(c) The numbers of occasions on which the range of visibility was estimated to be (1) not greater than 500 metres (550 yards), corresponding with the entries X to E, and (2) at least 20 kilometres ($12\frac{1}{2}$ miles), corresponding with the entries k, l, m, are summarized below. The limitations to which the estimates of visibility are subject are mentioned on p. 152. It is to be noted that the group (1) above consists of the occasions which are held to merit the description as " fog, moderate, thick, or dense," while the entries k, l, m, denote " very good or excellent visibility."

There were more occasions of fog and more of estimates k, l, and m than in 1930 Fog was most frequent in February and December, but entirely absent (at the standard hours of observation) in August. There were 114 estimates of m, visibility 50 km. (31 mi) or more, distributed among 26 days. 55 of the occasions were associated with increasing barometric pressure, and 79 with winds from west-south-west through north to north-east.

1931.	Number of occasions of—													
	Visibility X to E.							Visibility k, l, m.						
	7h	9h	13h	15h	18h	21h	Total.	7h	9h	13h	15h	18h	21h	Total.
Jan.	1	1	—	1	2	3	8	11	18	17	16	11	10	83
Feb.	4	1	—	1	3	3	12	10	9	13	15	11	8	66
Mar.	1	1	1	1	1	2	7	18	18	20	20	16	8	100
April	1	—	—	—	—	1	2	19	20	23	20	19	16	117
May	—	—	—	—	—	1	1	18	15	19	19	22	21	114
June	—	2	—	—	1	1	4	14	15	19	21	17	14	100
July	—	—	—	1	—	1	2	14	19	21	25	18	14	111
August ..	—	—	—	—	—	—	—	21	19	21	24	24	17	126
Sept.	1	—	—	—	—	2	3	17	19	21	22	17	13	109
Oct.	2	1	—	—	—	—	3	13	13	16	15	12	10	79
Nov.	2	2	—	—	2	2	8	6	5	8	6	4	4	33
Dec.	3	3	2	1	1	—	10	14	18	13	13	10	11	79
Year	15	11	3	5	10	16	60	175	188	211	216	181	146	1117

ATMOSPHERIC ELECTRICITY.

Notes on the Instruments.

Autographic records of atmospheric electrical potential gradient were obtained from January 1 by means of an electrograph of the Kelvin water-dropper type, the potential at the water-jet being registered by a Dolezalek quadrant electrometer. The temporary recorder installed in the south porch, in which the tank and jet of the water-dropper were replaced by a radio-active collector supported on an insulated boom, was discontinued after January 16. A comparison of the two electrographs on eight quiet days showed that they were in excellent agreement. During the building alterations, the cupboard housing the tank was extended and the recorder was installed in the extension, thereby eliminating a lead-in wire and several insulators which were a source of leakage in damp weather. A radiator was fitted in the cupboard and much better insulation of the whole system has resulted. Otherwise in all essential details the electrograph arrangements, the method of making scale tests and the method of reducing the autographic curve readings to potential gradient in the open were as described in *The Observatories' Year Book*, 1928, pp. 160–161. Insulation tests were carried out each day, using an eye-reading method. The system was charged, and the fall in potential during a two minutes interval was measured by noting the change in position of the spot of light on a scale placed in front of the recording drum.

The scale value of the photographic record obtained by means of the Dolezalek electrometer used in conjunction with the water-dropper remained at about 2·2 volts per mm. during January and February. Owing to readjustments to the electrometer, the scale value varied throughout the year as follows: February 28 to August 4, about 1·9 volts per mm., August 5 to November 11, about 1·6 volts per mm., and from November 12 to the end of the year it was about the same value as at the beginning of the year, viz., 2·2 volts per mm. The number of determinations of the reduction factor (*i.e.*, the ratio of the potential at one metre above the ground in the open to the potential at the water-jet) varied from three in December to eleven in March, each determination being based on about fifteen or more readings (at intervals of half a minute) of the potential in the open. The builder's hut, referred to last year, was removed on January 23. The values of the monthly reduction factor finally adopted for 1931 were obtained by a smoothing process, the adopted value for a given month being $\frac{(a + 2b + c)}{4}$, where a, b, c, are the unsmoothed monthly mean factors for the three successive months centred in the given month.

All determinations of scale value and reduction factor were obtained with a particular Wulf quartz-thread electrometer. This instrument was calibrated on a number of occasions during the year by means of a high tension battery, the potentials of which were measured by a potentiometer and standard cell. The calibration used for the determination of scale values of the electrograph and reduction factors throughout the year was the average of four calibrations, all in close agreement, made in January, April, May and June. A calibration made in October was in exact agreement with the adopted one. According to the scale value adopted for the Wulf electrometer in 1931, the instrument was about 4 per cent. less sensitive than in 1930.

IDENTIFICATION NUMBER OF INSTRUMENT USED IN 1931.

Wulf bifilar electrometer 3040

Notes on the Tables and Results.

As far as possible an electrical character figure is assigned to each day and values of potential gradient are assigned for 3h, 9h, 15h and 21h G.M.T. of all days, while values for all hours are assigned on days classified as 0*a*, 1*a* or 2*a*. The character figures are given in Table 268, the significance of these symbols being as follows :—

0, denotes a day during which from midnight to midnight no negative potential was recorded.

1, denotes the existence of negative potential at one or more times during the same period, but with a total duration of less than three hours.

2, denotes negative potential extending in the aggregate over three hours or more during the same period.

a, denotes that within the 25 periods of 60 minutes for which an estimate of the mean potential gradient has to be made in the process of tabulation there was in no case a range of potential gradient in the open exceeding 1,000 volts per metre.

b, denotes that, during the same period, a range of 1,000 volts or more per metre was reached in one hour at least but in fewer than six hours.

c, denotes that, during the same period, a range of 1,000 volts or more per metre was reached in at least six hours.

Table 265 contains the values of electrical potential gradient at 3h, 9h, 15h and 21h G.M.T. daily, the value for a given hour representing the mean for the period of 60 minutes centring at that hour. Blanks indicate that the trace was in some way defective. If it is possible to assign an approximate value of the potential gradient on such days, this value is given in brackets. The reduction factors used in converting the potential at the water-jet to potential gradient in volts per metre, in the open, are also given.

In Table 266 are given, for 0*a* days, (1) the mean diurnal inequalities for the months, seasons and year, (2) particulars of the number of days and of the non-cyclic changes and (3) the corresponding mean values of potential gradient. The inequalities, or the mean values, for the year and seasons are the means of the inequalities or means, respectively, for the appropriate months.

Corresponding data for 1*a* and 2*a* days combined appear in Table 267.

It should be noted that, in these tables, *Winter* denotes the four months January, February, November, December; *Equinox* the four months March, April, September, October; and *Summer* the four months May to August.

In addition to the electrical character for each day, Table 268 contains the daily, monthly and annual values of duration (in hours and tenths) of negative potential gradient. On 8 days of defective record when negative potential may have occurred dashes are entered; the sign of the gradient has been assumed positive during periods of defective record in which no precipitation was observed. If precipitation was recorded for less than an hour during such defective periods an approximate value of the duration of negative potential for that hour has been assigned, and the total for the day given in brackets. When, during highly oscillatory gradients, there was uncertainty as to the times of changes of sign, half of the total duration of doubtful sign was accounted negative. The total duration of negative potential gradient in each month and the average daily duration are entered in the lower part of the table. For the 357 days of assignable duration of negative potential gradient the total number of hours was 760·8 as compared with 806·0 in 1930; an average of 2·13 hours per day, as against 2·28 hours per day in 1930.

Following the practice adopted in 1923 the mean values of potential gradient given in Table 265 are of two kinds, viz., (*a*) the mean of all the positive values of potential in the column and (*b*) the algebraic mean derived from all days on which all four hours were represented. The mean values for the month, as derived from the (*a*) and (*b*) values respectively, are shown in the last line, and the means for the year are given at the foot of the December table. It is to be expected that the mean derived from the values at 3h, 9h, 15h and 21h, on a sufficiently large number of days, will approximate closely to the mean value derived from all hourly values of all the days.

The (a) mean exceeds or is equal to the (*b*) mean in all months of the year, except January and February, and is exceeded by the mean value on 0*a* days, in all months. The general tendency is for the 1931 values to be lower than those of 1930, this being the case in nine months for the (*a*) mean, and six months for the (*b*) mean.

Annual mean values for recent years, derived by giving equal weight to the twelve monthly means, of the (*a*) and the (*b*) means and of the means for 0*a* days are as follow :—

	0*a* v/m.	(*a*) v/m.	(*b*) v/m.
1922	257	225	182
1923	278	235	159
1924	236	214	157
1925	284	243	209
1926	249	201	177
1927	259	223	193
1928	237	219	150
1929	276	240	216
1930	247	211	194
1931	243	205	197

The highest value of the (*a*) mean occurs in November. The (*b*) mean is also high in November but the highest value is in January. The mean value of 0*a* days is highest in November, being 389 volts per metre.

Noteworthy occasions of high potential gradient were as follow :—

(i) January 1d 17h 40m to 22h 40m. During fog, the potential gradient remained above 800 v/m, the upper limit of registration (1200 v/m) being exceeded at times.

(ii) February 7d 0h 50m to 8h 0m. This was a period of fog, and the potential gradient remained above 660 v/m, the average for the whole interval being about 850 v/m.

(iii) February 17d 1h 0m to 8h 10m. During continuous snow the upper limit of registration (1250 v/m) was exceeded for the greater part of the period.

(iv) November 9d 20h 40m to 10d 0h 50m. The potential gradient remained above 650 v/m, the upper limit of registration (750 v/m) being exceeded continuously for an hour. The sky was overcast and there was a slight mist. Prior to and succeeding this interval were two periods of continuous rain, the former being associated with persistently negative potential gradient, the latter with highly oscillatory gradient exceeding the limits of registration on both sides.

(v) November 30d 15h 40m to 22h 0m. Associated with dense fog and continuous light drizzle the potential gradient remained above 700 v/m, the average for the entire period being about 850 v/m.

The following were the noteworthy occasions of continuous negative potential gradient :—

(i) January 21d 13h 30m to 22d 2h 0m. More than twelve hours of continuous negative potential gradient associated with continuous rain. The lower limit of registration (—1000 v/m) was exceeded for the greater part of the time.

(ii) February 20d 0h 0m to 7h 40m. During continuous rain the lower limit of registration (—850 v/m) was exceeded for an aggregate of five hours.

(iii) November 7d 3h 50m to 10h 55m. The lower limit of registration (−700 v/m) was exceeded continuously for three hours. Continuous rain fell throughout the period.

(iv) November 14d 13h 50m to 15d 2h 30m. The potential gradient persisted below −1000 v/m for more than eleven hours. Continuous rain fell throughout.

(v) November 18d 3h 50m to 16h 40m. The potential gradient remained negative, oscillating gently in periods of about ten minutes. The lower limit of registration (−1100 v/m) was exceeded occasionally. Continuous rain fell throughout the period named. Later when rain changed to sleet there was an excursion to the positive side for twenty minutes, this was followed by further negative potential gradient until 19h 45m.

(vi) December 23d 17h 30m to 24d 0h 35m. During continuous rain followed by drizzle the potential gradient remained negative. There were two separate periods when the lower limit of registration (−800 v/m) was exceeded, one lasting twenty minutes, the other one and a quarter hours.

On the following occasions long periods of negative potential gradient were broken by short excursions to the positive side :—

(i) March 13d 6h 30m to 18h 10m. During occasional rain followed by sleet, which later became continuous, the potential gradient was negative except for two excursions to +60 v/m and +170 v/m during the period of occasional rain, and one excursion to +160 v/m during the period of sleet. During the last excursion the potential gradient remained positive for thirty minutes.

(ii) June 6d 6h 10m to 22h 10m. This period of negative potential gradient was broken by four excursions to positive. The first three of these lasted for less than fifteen minutes and values of only +60 v/m or less were attained. The fourth excursion lasted for fifty minutes and a potential gradient of +950 v/m was reached. Occasional light rain fell at first followed by continuous moderate rain.

(iii) June 15d 18h 30m to 16d 8h 45m. This was a period of continuous moderate rain. The potential gradient remained negative except for short excursions to about +80 v/m. During the first part of the period the potential gradient though negative was not very low ; later, however, the limit of registration (−700 v/m) was exceeded continuously for two hours.

(iv) November 3d 1h 0m to 16h 20m. This was a period of continuous rain, heavy at times. This continuity of negative potential gradient was broken by several excursions to small positive values. The lower limit of registration (−700 v/m) was exceeded continuously for two periods, one of three hours and the other of four hours.

(v) December 2d 18h 40m to 3d 8h 20m. Precipitation fell continuously throughout this interval, first as rain, then drizzle, then rain again. During the period of drizzle the continuity of negative potential gradient was interrupted by several excursions to positive, but no values greater than +90 v/m were reached.

There are considerable irregularities in the mean diurnal inequalities of potential gradient on 0*a* days for individual months, and the mean inequalities for the two seasons, winter and equinox, vary considerably from the normals for 1913–23. The winter inequality is represented by a single wave, the usual secondary maximum at 10h being non-existent. The minimum occurs later than usual at 8h and the maximum at 20h. In the mean diurnal inequality for the equinox the chief feature is the increase in magnitude of the early morning minimum which is almost equal to the principal minimum occurring about noon. The summer inequality corresponds more nearly to normal, the minimum occurring at 11h and the maximum at 21h.

TERRESTRIAL MAGNETISM.

Notes on the Instruments.

The standard magnetographs,[1] which have been in regular use since 1909, are situated in the east chamber of the underground magnet house and are arranged so as to record changes of the three geographical components of terrestrial magnetic force, viz., the north component, N (or + X), west component, W (or − Y), and the vertically downward component, V (or + Z).

The instruments for the north and west components are of the Adie bifilar type, in which torsion of the bifilar suspension, of fine tungsten or steel wire, is utilised to bring the magnets into an azimuth approximately perpendicular to the directions of the components whose changes they respectively record. In each of these instruments the magnet is about 13·8 cm. in length and is suspended within a copper shell, or frame, of suitable dimensions to ensure that the movements of the magnet are sufficiently damped. To the magnet is rigidly attached a semi-circular plane mirror, immediately beneath which is a fixed mirror of similar form and dimensions. Each magnet and mirror system is contained within a brass cylindrical case, cemented on to a pier and surmounted by a tall bell-jar of glass. Light from a brightly illuminated slit passes through a collimator, is incident upon the two mirrors and after reflection passes along a wooden channel and thence, through a horizontal hemi-cylindrical lens, to photographic paper wound on a clock-driven cylinder. The hemi-cylindrical lens is set in the side of the case containing the recording drums, and matters are so arranged that the beams of light reflected from the two mirrors are brought to a focus by the lens which condenses the two vertical images to two sharply focussed dots on the paper. Hence the record obtained consists of two traces, the one straight and known as the base line, the other curved and representing the angular movements of the suspended magnet, and, therefore the changes in the component of terrestrial magnetic force.

The standard instrument for the vertical component is a Watson multiple-magnet balance.[2] In this instrument the magnet system consists of eight magnetised steel rods, each 10 cm. long and 0·2 cm. in diameter, carried by an aluminium frame to the centre of which are attached the moving mirror and also the knife-edge, which bears upon an agate plane and about which the system balances. Copper damping plates and a temperature-compensating device are provided. The recording arrangements are similar to those described above, save that the hemi-cylindrical condensing lens and the recording drum are vertical.

One clock serves to operate the three drums and also makes the time marks at two-hourly intervals.

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[1] For a general description of magnetograph arrangements see " A Dictionary of Applied Physics," Vol. II, Macmillan, London.
[2] Terrestrial Magnetism, Vol. VI.

To the containing case of each instrument is fitted a drying tube containing calcium chloride.

Determinations of the azimuth of the magnets of the north and west component magnetographs are carried out, at intervals of a year or two, by comparing the deflections produced by an auxiliary magnet with its axis (*a*) true north-south, or east-west and (*b*) inclined at a known small angle to those azimuths. Drift of the magnet system of the Watson balance has been compensated from time to time by adjusting the position of a small control magnet which is fixed vertically to the lower part of the pier on which the balance stands.

The azimuth lines in use in the east chamber are those which were determined in 1914 and of which particulars are given on p. 70 of *Hourly Values from Autographic Records, Geophysical Section*, 1913.

The diurnal range of temperature in the east chamber of the magnet house is normally negligible. Temperature is ascertained daily at 9h 30m by the thermometers within the instrument cases. The daily values appear in Tables 272, 276, etc.; the monthly means of the readings so obtained during 1931, together with the mean values for the years 1911–1930, were as follow:—

EXCESS OF MEAN TEMPERATURE ABOVE 280°*A*.

Month.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Mean 1931 ..	2·7	2·0	1·3	1·3	2·0	3·1	4·3	5·1	5·4	5·3	4·5	3·8
Mean 1911–30 ..	3·6	3·0	2·6	2·5	2·8	3·7	4·7	5·7	6·4	6·2	5·6	4·5

The annual range of temperature during 1931 was 4°·4 C., the mean range for the previous eighteen years being 4°·2 C.

The constants of the standard magnetographs were as follow:—

	North.	West.	Vertical.
Time scale .. .. 1 hour =	15·5 mm.	15·5 mm.	15·5 mm.
Time marks	Every two hours, beginning at exact hour.		
Error of time mark	Not more than ± 1 min.		
Period of vibration, seconds	13·9	9·8	7·2
Logarithmic decrement[1]	·365	·587	—
Angular equivalent of 1 mm. on paper, radians ..	·00032	·00032	·0003
Twist of bifilar suspension	60°	30°	—
Ratio $\frac{\text{length of bifilar suspension}}{\text{mean breadth of suspension}}$	66	100	—
Temperature coefficient, per 1° C.	—9 γ	— 2 γ	+26 γ
Direction of marked pole	West.	North.	—
Azimuth of magnet	270°	0°	346°

[1] Log. decr. = $\log_e a_n - \log_e a_{n+1}$; where a_n, a_{n+1} are the amplitudes of two successive swings on the same side of the zero position.

Determinations of scale value of the standard magnetographs are carried out at intervals of two weeks. The method adopted consists essentially in measuring the photographically recorded deflection of the suspended or pivoted magnet produced by an auxiliary or test magnet of known magnetic moment situated at a known distance from the deflected magnet. Two sets of relative positions of the deflecting and deflected magnets are used. For the north and west instruments they may be termed the " end on " and " broadside on " positions, the magnet axes being in one plane. In the case of the vertical instrument the deflecting magnet is vertical; in one position the line joining its centre to that of the deflected magnet is collinear with the axis of the latter, but in the other position it is perpendicular thereto. On a given occasion deflections are produced with the test magnet first on one side of the deflected magnet and then, at the same distance, on the other side, two deflections being produced at each side by reversal of the test magnet. Thus four deflection dots are obtained on the record. The two sets of relative positions of the magnets are employed on alternate occasions. The distance between the deflected and deflecting magnets is about 90 cm., and approximate values of the double deflections produced are 44 and 87 mm. for the north instrument, 33 and 65 mm. for the west, and 51 mm. for the vertical. In deducing the scale values allowance is made for the distribution of magnetism in the magnets by assuming that the latter consists of point poles separated by four-fifths of the length of the steel[1] and thence computing values of P, the distribution coefficient, for the different relative positions of the magnets. The moment of the auxiliary or test magnet is determined at intervals of about one month by deflections at two distances on the Kew magnetometer, the value of the horizontal component of the earth's field being obtained from the result of an absolute observation made on the same day.

In the following table are given the scale values, obtained by overlapping means, which were employed in reducing the curve readings for 1931.

SCALE VALUES OF THE MAGNETOGRAPHS (γ per mm. on the paper).

Month.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
North Instrument ..	5·01	5·01	5·01	5·01	5·01	5·01	5·01	5·02	5·02	5·02	5·02	5·02
West Instrument ..	6·69	6·69	6·71	6·70	6·70	6·70	6·70	6·70	6·71	6·71	6·71	6·71
Vertical Instrument ..	4·25	4·27	4·28	4·28	4·26	4·27	4·29	4·30	4·32	4·30	4·28	4·27

In addition to the standard magnetographs there are in the west chamber of the underground magnet house auxiliary instruments of the Adie pattern (formerly the standard instruments at Kew Observatory) which record changes in declination, D, horizontal force, H, and also vertically downward force, V. Declination records have been obtained since August, 1927, while the vertical force (Adie) and horizontal force records commenced in March and December, 1928. The general arrangements of these instruments are similar to those of the instruments in the east chamber. The declination magnet is suspended by a bundle of silk fibres (the torsion effect of which is negligible) and the scale value of the record is 1'·17 to 1 mm. The vertical force balance consists of a single magnet, of which the dimensions are approximately 13·5 cm. × 2 cm. × 0·2 cm. With the object of reducing loss of record during magnetic storms the scale values of the auxiliary H and V records are arranged to be considerably greater than those of the standard N and V records. Thus, in 1931 the scale values of the Adie H and V records were approximately 10γ and 12γ per mm.

[1] Chree, Phil. Mag. 1904.

respectively. Determinations of scale value are made by the method due to Broun. To facilitate the necessary adjustment, from time to time, of the azimuth of the horizontal force magnet, magnetic meridian lines (and lines perpendicular thereto) representing a sufficient range of values of declination were laid down in the west chamber in December, 1928, on the basis of simultaneous observations of declination in the chamber and in the east magnetic hut.

The routine absolute observations of the magnetic elements are made in the east magnetic hut; as a rule two complete sets of observations are made every week, but in 1931 a determination of declination was made on nearly every week-day. Declination and horizontal force were determined by means of the Kew pattern unifilar magnetometer (which was employed by Rücker and Thorpe in their magnetic surveys of the British Isles, 1886–1892) placed on Pier No. 5. Determinations of inclination (dip) are made by means of the Schulze inductor placed on Pier No. 6. Owing to the building of an extension to the east hut, absolute observations were made in the west hut from October 28, 1930, the Kew unifilar magnetometer on Pier No. 2, and the dip inductor on Pier No. 1. Observations were resumed in the east hut in 1931; D and H observations on February 13, and dip observations on March 11.

For a detailed description of the method of observation with the Kew pattern magnetometer reference should be made elsewhere.[1]

In determining declination four readings are taken, two with the magnet erect, two with the magnet inverted. A correction is applied to the mean of the observations for the observed torsion in the silk suspending fibre. The fixed mark is about one half-mile (0·8 km.) distant from Pier No. 5, and its bearing is taken as 8° 12′ 30″ west of south.

Determination of the horizontal intensity comprises observations of (*a*) the time of vibration of the collimator magnet, and (*b*) the deflection of a mirror magnet by the collimator magnet. Deflection observations are made for three distances of the collimator magnet, the order of the positions of the latter being: on east arm at 35 cm., 30 cm., 25 cm.; on west arm at 25 cm., 30 cm., 35 cm. Thus the mean times for the deflections at the three distances are very nearly, if not exactly, identical and the observations are concentrated at the 25 cm. distance. Commencing on April 28, deflections were observed at 25 cm. only, except on one occasion per month when deflections were observed at the three distances 35 cm., 30 cm., and 25 cm. By observing deflections at 25 cm. only the time of observation is reduced by about 16 minutes. The time interval between the mean times of the vibration and deflection experiments is usually about half an hour. The horizontal intensity, H, is calculated from $H = \sqrt{mH_V \times H_R/m}$ where mH_V is obtained from the vibration experiment and H_R/m from the deflections made at the 25 cm. distance, m being the moment of the collimator magnet. H_R/m is corrected for the distribution of magnetism in the magnets. From the latter part of 1913 until the end of 1923 the value of this correction, viz., $\log_{10}(1+P/25^2+Q/25^4)$, applied to the observations of a given month was a mean value derived from the observations obtained during the seven months including the given month as fourth of the seven. The monthly values so derived show considerable fluctuations, and it is improbable that P and Q actually varied to the extent implied. Commencing in 1924 the value of the correction used in reducing the horizontal intensity observations has been the mean of the mean values for each of the years 1917–24, 1917–25, etc. The value employed for 1931 is ·00543. The mean value of the logarithm for the years 1917–30 is also ·00543. A variation of ·00020 in the value of $\log_{10}(1+P/25^2+Q/25^4)$ corresponds with a variation of about 4γ in the derived value of H.

[1] Dict. of Applied Physics, Vol. II, p. 532 *or* Stewart and Gee's "Practical Physics."

The values of P, Q, and $\log_{10}(1+P/25^2+Q/25^4)$ for individual years are as follow :—

Year.		P.		Q.		$\log_{10}(1+P/25^2+Q/25^4)$.
1917	....	+ 6·862	....	+ 418·9	....	·00520
1918	....	+ 7·604	....	+ 68·6	....	·00533
1919	....	+ 9·126	....	− 603·5	....	·00563
1920	....	+ 8·224	....	− 216·6	....	·00544
1921	....	+ 7·978	....	+ 25·3	....	·00554
1922	....	+ 6·607	....	+ 513·1	....	·00513
1923	....	+ 6·371	....	+ 614·3	....	·00508
1924	....	+ 7·899	....	− 128·6	....	·00531
1925	....	+ 8·214	....	− 261·7	....	·00538
1926	....	+ 9·675	....	− 938·4	....	·00564
1927	....	+10·422	....	−1265·0	....	·00580
1928	....	+ 8·713	....	− 547·2	....	·00541
1929	....	+ 9·741	....	− 917·4	....	·00571
1930	....	+ 8·683	....	− 536·5	....	·00540
1931	....	+ 8·765	....	− 684·6	....	·00530

The Schulze inductor[1] consists essentially of a coil of insulated wire which can be rotated continuously and rapidly about an axis which coincides with a diameter of the coil. This axis is capable of rotation about a horizontal and vertical axis. The inclination and azimuth of the coil axis are read off on a vertical and a horizontal scale respectively. The windings of the coil are led off from a commutator to a Broca galvanometer. To effect a determination of magnetic inclination, the coil is set so that its axis of rotation lies in the plane of the magnetic meridian. The coil is then rotated steadily at the rate of about 360 revolutions per minute and the inclination of the axis of rotation is adjusted until the galvanometer deflection is the same in magnitude and sign whether the sense of rotation is positive or negative. In this position the rotation axis of the coil coincides with the direction of the earth's field and the inclination to the horizontal may be read off from the vertical circle. Two series of settings are made, one with the vertical circle facing east, the other with the circle facing west.

The base line values of the magnetograph records are deduced from the results of the absolute observations, any of the latter obtained during times of considerable disturbance being excluded. For a set of absolute observations on a given day the mean ordinates of the north and west component curves are determined for the periods of time corresponding to the declination, the vibration, and the 25 cm. deflection observations.

From these values, and from the value of H obtained as described above, the value of H corresponding to the mean ordinates during the declination observation is derived, and thence the base line values of N and W are computed. Similarly, by the combined use of the curve ordinates at the times of the inclination and horizontal force observations the value of H corresponding to the inclination observation is obtained and thence the base value for V. The base line values finally adopted are obtained from a curve drawn smoothly through points given by the deduced values, due allowance being made for discontinuities in the records.

The results of the absolute determinations of D, I and H are summarized in the subjoined table, and the values of *m*, the moment of collimator magnet 60a, are also given. For each set of absolute observations are shown the deduced base line values of N, W, and V and, in brackets, the adopted base line values. Thus, the entry 15823 (18) signifies :—deduced base line value 15823, adopted base line value 15818. The adopted values were obtained as described in the foregoing, and therefore the base line values corresponding to dates between those given in the table may be obtained by interpolation.

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[1] For descriptions of, and discussion of method of observation with, earth inductors see papers by—
H. Wild. Met. Zeit., 1895, p. 41.
O. Venske. Ber. über die Tät. des Preuss. Met. Inst. in 1924, p. 91 (and references given therein).
N. E. Dorsey. Terr. Mag., Vol. 18, p. 1, 1913.

ABSOLUTE DETERMINATIONS OF D, I AND H, AND BASE LINE VALUES OF N, W, AND V.

Eskdalemuir. **1931.**

Date.	Declination.		Inclination.		Horizontal Force.			Base Line Values (deduced and adopted).		
	Mean Time.	D.	Mean Time.	I.	Mean Time.	H.	*m.*	North.	West.	Vertical.
	h. m.	° ′ ″	h. m.	° ′	h. m.	γ		15,000 γ +	4,000 γ +	44,000 γ +
Jan. 2	11 45	14 41 58	—	—	12 13	16594	905·5	765 (56)	63 (58)	—
6	10 47	14 41 38	—	—	11 25	16590	906·0	756 (56)	61 (58)	—
8	11 25	14 41 18	—	—	11 55	16591	906·1	751 (56)	58 (57)	—
10	—	—	11 7	69 43·9	—	—	—	—	—	742 (73)
14	12 51	14 41 51	11 39	69 43·5	12 13	16601	905·8	757 (55)	59 (57)	788 (75)
16	13 3	14 41 41	11 53	69 44·9	12 27	16587	905·3	757 (55)	52 (57)	774 (76)
21	12 31	14 41 3	11 15	69 43·7	11 53	16591	905·7	754 (55)	58 (56)	761 (78)
27	12 53	14 40 28	11 43	69 45·0	12 17	16603	905·9	770 (54)	61 (56)	844 (780)
30	12 33	14 41 23	11 23	69 45·1	11 57	16596	906·2	769 (54)	61 (56)	802 (780)
Feb. 4	12 27	14 41 34	11 14	69 43·9	11 49	16584	905·1	753 (53)	57 (56)	748 (81)
11	12 5	14 40 18	10 55	69 45·5	11 29	16596	905·9	759 (52)	56 (56)	854 (781)
13	11 31	14 42 17	—	—	10 53	16628	905·4	747 (51)	56 (57)	—
17	12 13	14 42 40	14 8	69 44·0	11 37	16577	905·8	751 (50)	56 (57)	766 (81)
19	11 35	14 42 37	14 57	69 45·1	10 59	16582	905·6	751 (50)	60 (57)	840 (781)
28	10 1	14 38 0	—	—	9 24	16570	905·1	741 (48)	58 (57)	—
Mar. 3	12 11	14 43 5	14 47	*69 44·5	11 35	16575	905·8	746 (47)	58 (57)	779 (79)
6	12 11	14 42 35	—	—	11 33	16562	906·0	754 (47)	60 (57)	—
11	14 17	14 41 42	14 37	69 44·0	12 25	16582	906·1	745 (46)	58 (58)	778 (77)
13	12 49	14 42 52	12 29	69 45·8	11 47	16565	905·5	747 (45)	60 (58)	769 (76)
18	12 51	14 43 49	14 33	69 44·2	12 16	16574	904·8	744 (44)	58 (58)	792 (75)
20	12 13	14 43 7	12 34	69 44·5	11 37	16566	905·2	740 (44)	55 (58)	764 (74)
25	12 41	14 43 37	12 21	69 44·3	11 33	16579	905·3	741 (44)	55 (58)	771 (72)
27	9 43	14 37 50	9 20	69 42·9	11 49	16567	905·9	739 (44)	58 (58)	733 (72)
Apr. 8	9 41	14 33 40	9 21	69 43·6	12 1	16592	906·1	751 (44)	59 (58)	794 (70)
10	9 47	14 36 10	9 27	69 44·0	12 7	16557	905·0	741 (44)	61 (58)	707 (70)
15	12 7	14 40 30	10 57	69 44·4	11 31	16559	905·1	742 (44)	55 (58)	739 (69)
21	13 3	14 43 35	—	—	—	—	—	756 (45)	63 (59)	—
22	—	—	11 34	69 45·4	10 51	16590	906·1	—	—	799 (69)
24	13 7	14 42 50	11 43	69 45·1	10 59	16571	905·3	748 (45)	60 (59)	772 (69)
28	11 53	14 40 35	11 1	69 45·0	11 31	16569	905·5	746 (46)	61 (59)	790 (68)
30	11 47	14 41 10	8 56	69 46·0	11 22	16559	905·2	733 (46)	57 (59)	844 (767)

*Dip Circle.

ABSOLUTE DETERMINATIONS—*continued.*

Date.	Declination.		Inclination.		Horizontal Force.			Base Line Values (deduced and adopted).		
	Mean Time.	D.	Mean Time.	I.	Mean Time.	H.	*m.*	North.	West.	Vertical.
	h. m.	° ′ ″	h. m.	° ′	h. m.	γ		15,000 γ +	4,000 γ +	44,000 γ +
May 6	8 53	14 36 50	8 19	69 45·1	11 23	16583	904·9	742 (47)	54 (59)	796 (66)
8	8 37	14 32 5	8 15	69 44·1	13 32	16569	905·5	753 (48)	63 (59)	754 (65)
12	8 33	14 34 5	8 11	69 44·7	11 9	16571	905·6	746 (49)	60 (60)	796 (63)
15	8 31	14 32 55	8 10	69 46·1	11 39	16550	906·1	765 (50)	66 (60)	787 (62)
20	13 35	14 45 23	10 39	69 45·1	12 11	16594	906·1	750 (51)	59 (60)	765 (59)
22	—	—	13 33	69 43·5	—	—	—	—	—	759 (58)
26	8 37	14 34 43	8 18	69 44·3	11 29	16579	906·5	762 (52)	62 (60)	815 (755)
29	8 41	14 32 55	8 24	69 43·9	12 39	16586	906·2	758 (53)	64 (61)	781 (53)
June 5	8 33	14 30 37	8 14	69 43·7	11 8	16556	904·7	737 (55)	57 (61)	685 (749)
9	11 57	14 38 37	11 38	69 44·7	11 8	16572	905·6	753 (56)	67 (61)	718 (46)
12	8 29	14 31 43	8 8	69 43·6	13 23	16547	905·5	739 (56)	59 (61)	688 (744)
16	11 29	14 36 25	—	—	—	—	—	760 (57)	62 (62)	—
17	11 39	14 38 45	—	—	11 19	16581	906·0	761 (58)	60 (62)	—
24	8 33	14 31 15	8 13	69 43·2	11 27	16569	905·5	759 (59)	62 (62)	722 (36)
26	8 37	14 29 20	8 17	69 43·4	11 31	16572	905·3	754 (59)	59 (62)	729 (34)
30	8 31	14 31 5	8 13	69 44·9	11 26	16567	906·0	761 (60)	61 (62)	771 (33)
July 3	11 55	14 37 57	8 14	69 43·5	11 22	16565	904·4	755 (61)	58 (62)	703 (31)
8	13 49	14 39 59	—	—	13 27	16595	905·5	769 (62)	56 (61)	—
10	8 33	14 30 27	8 13	69 42·6	11 21	16568	905·3	754 (62)	57 (61)	694 (729)
14	8 23	14 29 40	8 3	69 42·6	—	—	—	772 (63)	63 (61)	755 (28)
15	11 43	14 37 55	—	—	11 17	16586	905·9	773 (63)	64 (61)	—
17	7 57	14 28 25	8 18	69 43·8	—	—	—	773 (64)	63 (61)	714 (27)
21	8 37	14 30 17	8 18	69 43·5	11 21	16581	905·2	763 (64)	61 (61)	721 (26)
24	8 33	14 31 7	8 13	69 46·2	11 19	16548	905·3	769 (65)	63 (61)	766 (26)
29	8 31	14 30 50	8 11	69 45·7	11 43	16561	905·5	758 (66)	61 (61)	775 (26)
31	9 9	14 31 10	—	—	11 29	16550	904·8	765 (67)	61 (61)	—
Aug. 4	13 9	14 41 23	—	—	13 31	16565	904·8	762 (67)	65 (61)	—
7	9 13	14 34 3	13 39	*69 41·1	11 45	16591	904·2	782 (68)	66 (61)	665 (727)
11	10 29	14 34 36	13 50	*69 43·4	10 54	16562	904·0	775 (69)	62 (61)	724 (27)
14	10 41	14 36 12	14 19	*69 41·8	11 31	16546	904·7	751 (70)	56 (61)	621 (728)
18	14 46	14 40 35	13 42	*69 42·7	15 10	16598	904·8	791 (71)	70 (62)	744 (28)
22	—	—	11 12	*69 42·7	—	—	—	—	—	774 (28)
25	11 53	14 36 24	—	—	11 31	16519	906·0	774 (72)	63 (62)	—
28	11 55	14 38 44	11 23	*69 45·9	10 38	16577	904·9	786 (73)	64 (62)	839 (729)
Sept. 2	11 15	14 35 3	—	—	10 25	16553	905·5	773 (74)	57 (62)	—
4	8 59	14 28 27	8 27	*69 41·9	10 55	16585	905·9	808 (774)	66 (63)	713 (31)
9	9 23	14 33 43	9 6	69 46·4	11 20	16554	905·7	773 (75)	66 (63)	754 (32)
11	8 29	14 30 27	8 11	69 45·2	11 18	16550	905·6	770 (75)	57 (63)	718 (33)
18	8 27	14 27 49	8 5	69 45·5	—	—	—	779 (76)	61 (63)	758 (34)
19	8 43	14 29 5	—	—	8 22	16571	905·5	779 (76)	60 (63)	—
22	8 43	14 27 33	8 25	69 44·6	10 49	16587	906·8	801 (776)	68 (64)	782 (36)
25	—	—	8 27	69 45·1	—	—	—	—	—	739 (36)
26	9 49	14 32 13	—	—	9 10	16559	905·4	776 (76)	64 (64)	—
29	11 45	14 34 47	11 27	69 44·0	10 57	16570	905·8	776 (76)	63 (64)	700 (36)

*Dip Circle.

ABSOLUTE DETERMINATIONS—*continued.*

Date.	Declination.		Inclination.		Horizontal Force.			Base Line Values (deduced and adopted).		
	Mean Time.	D.	Mean Time.	I.	Mean Time.	H.	*m.*	North.	West.	Vertical.
	h. m.	° ′ ″	h. m.	° ′	h. m.	γ		15,000 γ +	4,000 γ +	44,000 γ +
Oct. 1	8 37	14 31 25	8 18	69 43·4	11 1	16578	906·0	777 (76)	63 (64)	711 (36)
7	12 27	14 35 47	11 30	69 46·3	12 0	16552	905·7	781 (76)	64 (64)	769 (36)
9	9 47	14 29 37	—	—	12 13	16558	905·1	764 (76)	63 (64)	—
13	9 33	14 32 5	9 14	69 45·0	11 49	16550	905·2	772 (76)	63 (64)	679 (734)
21	9 37	14 30 23	9 21	69 45·3	12 7	16565	905·3	786 (74)	67 (64)	757 (33)
23	11 31	14 36 50	—	—	11 27	16574	905·5	775 (74)	64 (64)	—
30	9 23	14 34 10	11 43	69 48·2	11 3	16522	905·8	770 (72)	67 (63)	711 (32)
31	—	—	10 7	69 47·0	—	—	—	—	—	671 (732)
Nov. 4	11 45	14 41 0	—	—	11 39	16552	905·1	773 (71)	60 (62)	—
6	12 1	14 37 30	11 9	69 49·5	11 37	16557	905·3	773 (70)	58 (62)	758 (32)
10	—	—	14 12	69 45·1	—	—	—	—	—	753 (32)
11	14 35	14 34 25	—	—	14 13	16568	905·0	769 (68)	62 (62)	—
13	9 5	14 28 47	11 3	69 44·0	11 35	16583	905·7	769 (67)	57 (62)	718 (33)
18	12 13	14 31 55	11 17	69 44·1	11 48	16560	905·2	764 (64)	61 (61)	728 (35)
20	12 15	14 30 35	9 15	69 44·5	11 48	16558	905·5	757 (64)	48 (61)	711 (36)
24	12 39	14 33 50	9 16	69 43·9	12 13	16571	905·9	767 (62)	61 (60)	769 (38)
27	12 7	14 31 30	9 10	69 46·0	11 41	16558	905·6	756 (60)	57 (60)	775 (40)
Dec. 5	11 27	14 33 5	—	—	11 57	16540	905·7	749 (57)	60 (59)	—
9	15 17	14 31 3	14 22	69 45·5	14 53	16565	906·1	770 (55)	60 (59)	840 (752)
11	12 3	14 31 5	9 14	69 44·3	11 37	16562	905·9	752 (54)	57 (59)	760 (55)
16	14 45	14 31 11	9 18	69 44·5	14 19	16572	905·1	754 (51)	59 (58)	789 (62)
18	12 53	14 30 15	12 33	69 44·0	11 37	16565	904·7	746 (50)	56 (57)	748 (65)
22	14 43	14 31 0	9 15	69 44·4	14 18	16595	904·9	770 (48)	60 (57)	858 (770)
24	15 13	14 30 20	9 15	69 44·2	14 33	16551	906·0	731 (47)	52 (56)	728 (74)
29	14 59	14 36 35	21 18	69 44·8	15 31	16547	905·2	750 (44)	60 (55)	783 (82)

The hourly readings are obtained from the magnetograms, standardized as described in the foregoing, by means of a ruled glass scale. The reading for any given hour G.M.T. is that ordinate estimated to be the mean reading for 60 minutes centring at the given hour. The product of this ordinate and the scale value is added to the adopted base line value, and the sum so obtained is the hourly value printed in the tables.

IDENTIFICATION NUMBERS OF INSTRUMENTS IN USE IN 1931.

Unifilar Magnetometer, Kew pattern .. .. .. Elliott, No. 60.
(with collimator magnet, 60a, and mirror magnet, 60c).

Dip Inductor .. .. Schulze, No. 103.

Notes on Tables.

The hourly values of N, W, and V, obtained as described above, appear in three of the four monthly tables. The mean value for the day is computed according to the expression

$$x = \{\tfrac{1}{2}(x_0+x_{24}) + x_1+x_2 + \dots\dots\dots\dots + x_{23}\}/24.$$

The letters "Q" and "D" denote the five quiet and the five most disturbed days as selected at De Bilt.

In the fourth table for each month are given :—

(*a*) the values and times of the daily maximum and minimum and the values of the absolute daily range for each of the components N, W and V.

(*b*) the value of ΣR^2 for each day. ΣR^2 is written for $R_N^2+R_W^2+R_V^2$ where R_N, R_W, R_V denote the absolute ranges for a calendar day of the north, west and vertical components.

(*c*) the daily magnetic character figures, assigned according to the international scheme wherein "0," "1," "2," respectively, denote quiet, moderately disturbed, and highly disturbed conditions.

(*d*) the daily values of temperature in the underground magnetograph chamber.

Hourly values of declination are not given in this volume. They have been published weekly, primarily for the use of mine surveyors, in "The Colliery Guardian" and "The Iron and Coal Trades Review."

Mean diurnal inequalities of the components N, W, V, H, D, and I on all days and on international quiet and disturbed days are given, for the months, seasons and year, in Tables 317 to 334. In calculating diurnal inequalities the non-cyclic change has been eliminated on the assumption that its time-rate is linear. The inequalities of H, D, and I have been computed from those of N, W, and V, by means of the formulæ :

$$\delta D = \frac{180 \times 60}{\pi}\left(\frac{\delta W \cos D - \delta N \sin D}{H}\right)$$

$$\delta H = \delta N \cos D + \delta W \sin D$$

$$\delta I = \frac{180 \times 60}{\pi} \cos I \left(\frac{\delta V \cos I - \delta H \sin I}{H}\right)$$

in which δD and δI are expressed in minutes of arc, and where H, D, and I for any given month are the respective mean values for that month as published in Table 338. The values of the range of the mean diurnal inequalities of the several elements on the three different types of day are brought together in Table 335, and the values of the non-cyclic change of N, W, and V are given in Table 336.

The results of harmonic analysis of the mean diurnal inequalities of N, W, and V for the months, seasons[1] and year are to be found in Tables 339 and 340, in which are given the values of a_n, b_n, c_n, and α_n, in the two equivalent series $\Sigma\,(a_n \cos 15nt^\circ + b_n \sin 15nt^\circ)$ and $\Sigma\, c_n \sin (15nt^\circ + \alpha_n)$. In the former series t is reckoned in hours from

[1] The seasons are defined for this purpose as follows :—*Winter*, January, February, November, December ; *Equinox*, March, April, September, October ; *Summer*, May, June, July, August.

midnight G.M.T., whilst the published values of α_n refer to Local Mean Time. The values of the harmonic coefficients have been computed from the inequalities as given in the tables and have been corrected, where necessary, on account of the fact that the hourly values are not instantaneous but mean values. The factors by which the coefficients have to be multiplied (*vide* Report of the British Association, 1883, p. 98) are 1·00286 for a_1, b_1, c_1; 1·01152 for a_2, b_2, c_2; 1·02617 for a_3, b_3, c_3, ; and 1·04720 for a_4, b_4, c_4. The values were obtained to two decimal places and finally were rounded off to 0·1γ.

The mean values of the squares of the absolute daily ranges are summarized in Table 337.

In Table 338 appear for the months and year the mean values of N, W, V, D, I, H and Total Force, T. The means of the four latter elements are derived from the corresponding mean values of N, W and V, which are the means of hourly values on all days in the month or year. Tables 341 and 342 contain mean values of the magnetic elements for 1931 and recent years at a number of observatories.

Review of Results of Magnetic Observations.

Mean and Extreme Values of the Magnetic Elements, 1931.—The mean values[1] are given below in Table I along with the corresponding values for the previous year. The values of N, W, and V have been computed from the hourly values derived from the autographic records of all days, standardized by means of the absolute observations; those of H, D, I, and T have been deduced from the values of N, W, and V.

TABLE I.

Year.	H.	D. (West).	I.	N.	W.	V.	T.
	γ	° ′	° ′	γ	γ	γ	γ
1930	16585	14 47·1	69 43·2	16036	4232	44881	47847
1931	16583	14 34·8	69 43·7	16049	4174	44898	47863

Westerly declination was on the average 12′·3 less in 1931 than in 1930. The rate of decrease is practically the average rate of recent years. Between 1913 and 1920 the average rate of decrease was 9′·3. As compared with the 1930 value horizontal force shows a fall of only 2 γ, which is less than the average annual rate of decrease between 1912 and 1927. Practically no change in the average value of the north component has occurred since 1925, but as in recent years the west component decreased by some 60 γ. Inclination has increased by 0′·5. The values of vertical and total force have increased somewhat.

Mean values derived from (*a*) international quiet days and (*b*) international disturbed days are as follow: (*a*) N, 16051γ; W, 4175γ; V, 44898γ; (*b*) N, 16044γ; W, 4172γ; V, 44899γ.

The differences between the mean annual values of N, W, and V, derived from all, international quiet, and international disturbed days in the years 1926-31 inclusive, are given below, together with the mean differences for the years 1915–1925.

[1] See remarks on p. 168.

In every year of the series quoted the mean value of N and of W on quiet days exceeded the mean value on all and on disturbed days. The only years in the period 1915-25, for which either the all or the disturbed day mean value of V exceeded the quiet day value were 1917, 1919, 1921.

	Quiet day mean—All day mean.			Quiet day mean—Disturbed day mean.		
	N	W	V	N	W	V
	γ	γ	γ	γ	γ	γ
1931 ..	+2·5	+1·2	−0·5	+ 7·4	+3·1	−0·9
1930 ..	+7·0	+2·8	+1·6	+16·1	+5·6	+3·7
1929 ..	+3·8	+1·4	+0·2	+11·1	+2·8	+1·9
1928 ..	+4·5	+1·4	−1·6	+ 7·7	+2·6	−3·4
1927 ..	+2·9	+1·1	−0·3	+ 9·1	+2·4	−2·7
1926 ..	+4·8	+2·0	−0·7	+16·1	+5·7	−1·4
1915-1925	+2·7	+1·2	+0·7	+ 8·5	+3·3	+1·5

The resultant vector representing the average excess of the mean values on quiet days over the mean values on all days, for the years 1915–1925, has a magnitude of 3γ; its azimuth is 336°, measured from true north through east, and it is inclined at about 77° to the downwardly directed vertical. The vertical plane which contains this vector approximates very closely in azimuth to the vertical plane passing through Eskdalemuir and the pole (taken as 78°N, 68°W) of the axis of magnetization of the earth. (cf. S. Chapman, *On certain average characteristics of world-wide magnetic disturbance.* Lond. Proc. Roy. Soc. Series A. Vol. 115, p. 242).

The extreme values of N, W, and V actually recorded during 1931 are given in Table II.

TABLE II.

Component.	Maximum.		Minimum.		Absolute Annual Range.
	Value.	Date, 1930.	Value.	Date, 1930.	
	γ	d h m	γ	d h m	γ
North	16370	Oct. 29 15 50	15899	Oct. 29 21 11	471
West	4379	Oct. 29 15 47	4000	Dec. 2 21 4	379
Vertical ..	>45147	Oct. 29 { Between 15 42 and 16 8	44742	Oct. 12 23 6	>405

Magnetic Character of the Year.—The Eskdalemuir practice of tabulating for each day the value of ΣR^2 (1), *i.e.*, the sum of the squares of the absolute daily ranges of N, W and V, has been continued. The evaluation of the mean daily values of Σr^2, the sum of the squares of the hourly ranges of N, W and V, has not been carried out since 1925, but the values of hourly ranges of some further years have been tabulated and are available for the purposes of investigation. The magnetic character figures which were assigned in accordance with the international scheme are summarized in Table III. These character figures were assigned quite independently of knowledge of the values of ΣR^2. Table III contains also the monthly mean value of the international character figures, which for 1931 are based on the estimates made at 41 observatories, and the mean monthly values of ΣR^2 for all ," 0," " 1," " 2," international quiet (Q), and international disturbed (D) days.

(1) See p. 169.

The Eskdalemuir mean character figure for the year, like the international mean character figure, is less than for 1930. The mean sunspot numbers for the years 1923–31, are, in order, 5·8, 16·7, 44·3, 63·9, 69·0, 76·8, 64·2, 38·9 and 20·9. Both the Eskdalemuir and the international mean character figures increased concurrently with the sunspot numbers up to 1926, but the concurrence since then has not been maintained.

The Eskdalemuir character figures and the mean values of ΣR^2 for all days suggest that October was the most disturbed month.

In Table III the annual mean values are the means of the monthly values entered in the corresponding columns. The mean value of ΣR^2 for all days is less than the value for any of the other years since 1925. If equal weight be allowed to individual "2" days, the mean annual value of $\frac{\Sigma R^2}{100}$ on these days is 891. The corresponding figures for the years 1922-30 are: 704, 914, 855, 834, 2536, 1278, 2693, 2215, 1803.

TABLE III.

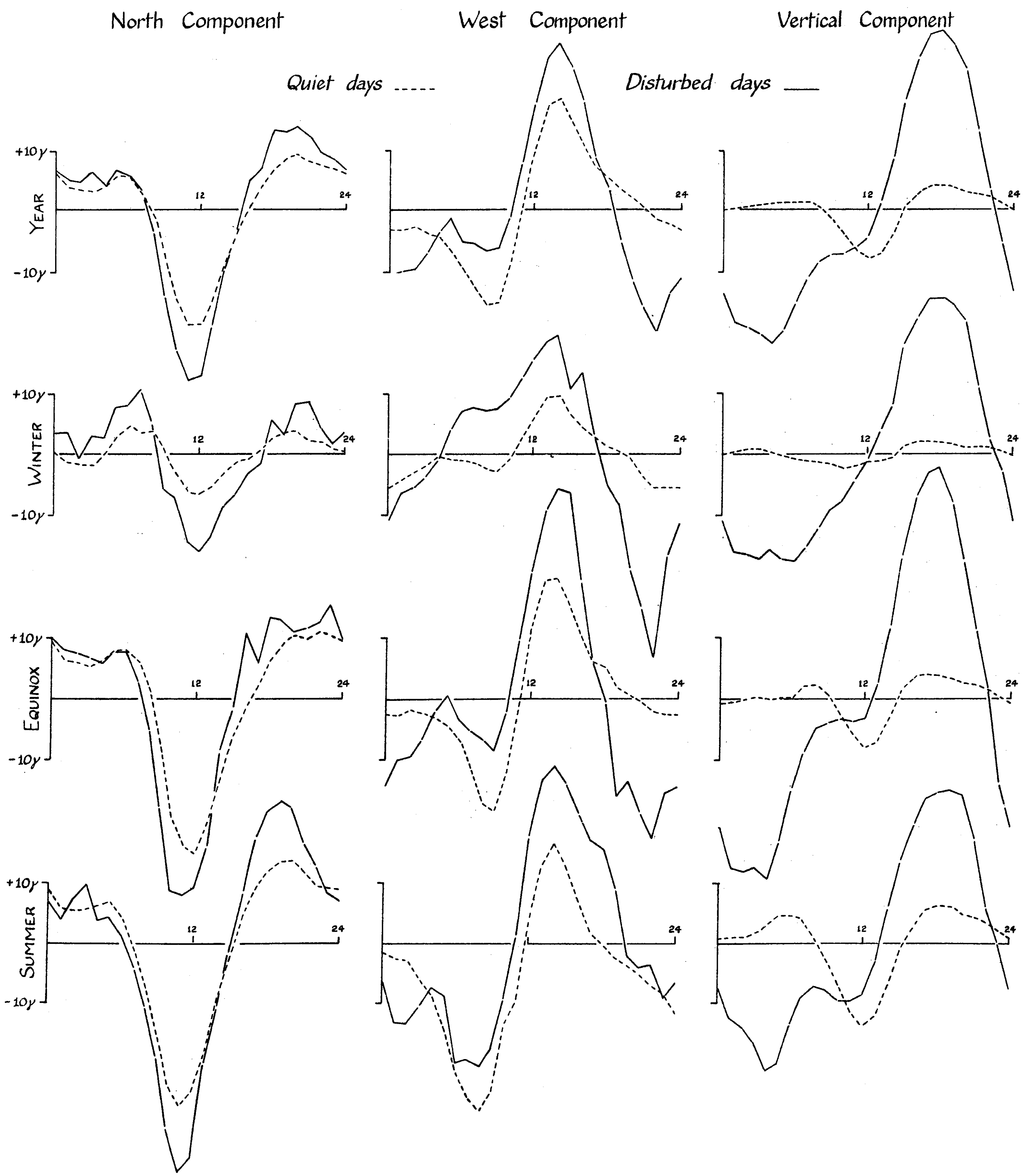
Month.	Magnetic Character Figures. Number of			Mean Character Figure.		Mean Value of $\Sigma R^2/100\gamma^2$.					
	"0" days.	"1" days.	"2" days.	Eskdalemuir.	International.	All days.	Q days.	"0" days.	"1" days.	"2" days.	D days.
1931.											
January ..	13	18	0	0·58	0·54	91	9	15	145	—	280
February ..	13	13	2	0·61	0·62	156	21	34	175	820	522
March ..	10	20	1	0·71	0·59	120	43	53	124	719	338
April ..	21	9	0	0·30	0·45	104	54	68	190	—	230
May	13	16	2	0·65	0·54	138	65	76	141	523	360
June ..	10	17	3	0·77	0·65	167	71	81	166	459	390
July	12	18	1	0·65	0·55	141	79	81	161	502	292
August ..	12	16	3	0·71	0·68	165	85	87	185	374	378
September ..	7	19	4	0·90	0·82	235	127	113	216	535	511
October ..	6	21	4	0·94	0·95	502	76	72	279	2317	1989
November ..	9	21	0	0·70	0·83	203	32	48	270	—	421
December ..	11	20	0	0·65	0·74	166	9	25	244	—	408
Year, 1931 ..	137	208	20	0·68	0·66	182	56	63	191	781	510
Year, 1930 ..	94	230	41	0·85	0·83	435	66	82	328	1822	1411
Year, 1929 ..	118	213	34	0·75	0·67	368	61	72	223	2240	1329
Year, 1928 ..	96	246	24	0·80	0·63	337	70	76	209	4393	763
Year, 1927 ..	95	231	39	0·85	0·63	258	66	68	164	1244	908
Year, 1926 ..	90	227	48	0·89	0·65	465	63	65	180	2167	2048
Year, 1925 ..	145	191	29	0·69	0·56	172	48	56	154	767	541
Year, 1924 ..	191	153	22	0·54	0·55	121	39	43	113	715	424
Year, 1923 ..	235	111	19	0·41	0·48	115	32	42	129	776	408
Year, 1922 ..	174	145	46	0·65	0·65	205	47	64	221	720	601

Diurnal Inequalities.—The mean diurnal inequalities for all days, and international quiet and disturbed days, for the months, seasons and the year, are given in Tables 317–334, and the corresponding inequality ranges in Table 335. The inequalities of N, W, and V for international quiet and disturbed days are shown graphically in Plates III and IV, the representation in the latter plate being in the form of vector diagrams.

With the exception of W in summer, the ranges of the mean diurnal inequalities of all days of the three components in each season and for the year 1931 as a whole are appreciably lower than has usually been the case in recent years. The ranges of the inequalities on quiet days show less change, whilst the ranges of the disturbed day inequalities in every season and for the year as a whole show a considerable reduction on the ranges of the previous year. With the exception of W in August and November and V in October the same applies in individual months.

Diurnal Variation of Magnetic Force

Eskdalemuir 1931

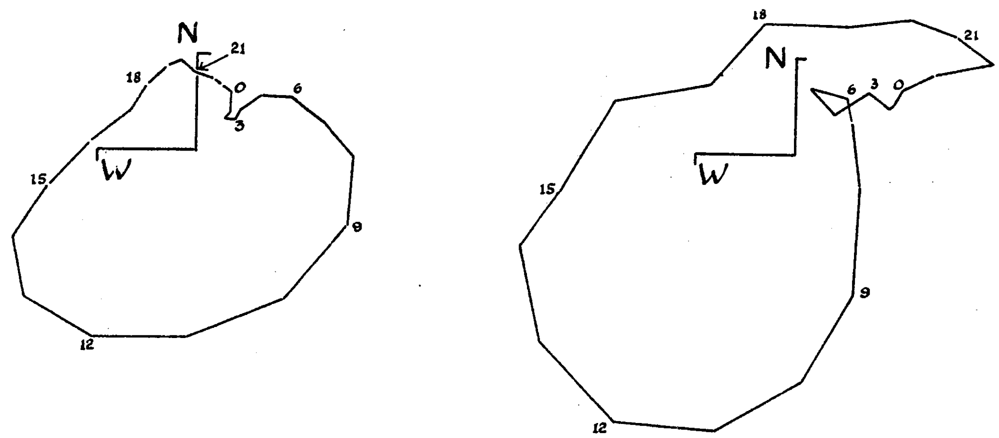


Vector Diagrams illustrating Diurnal Variation of Magnetic Force

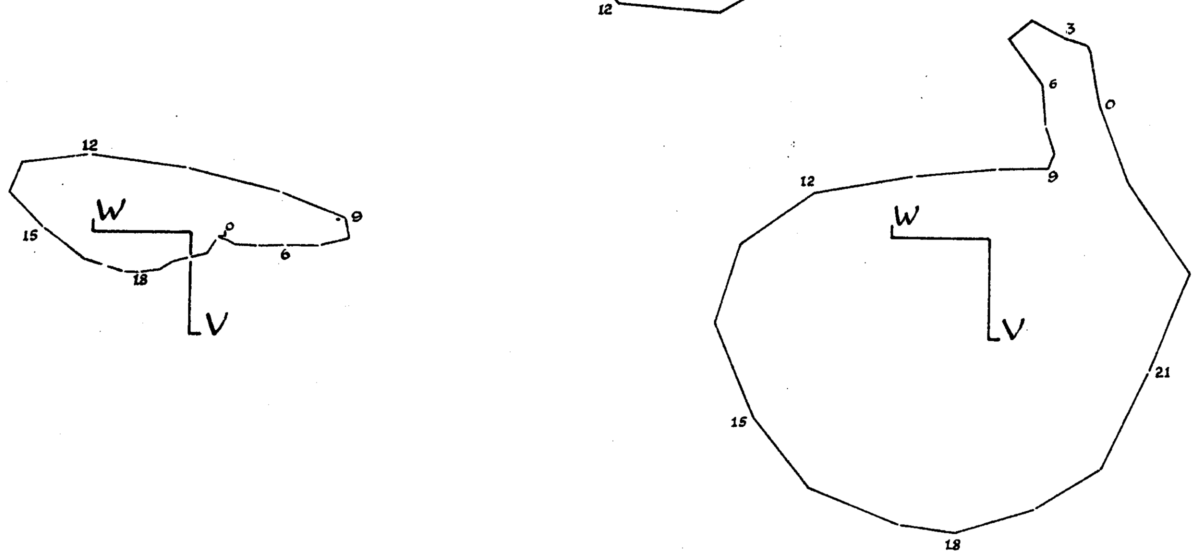
Eskdalemuir 1931

Quiet days | Disturbed days

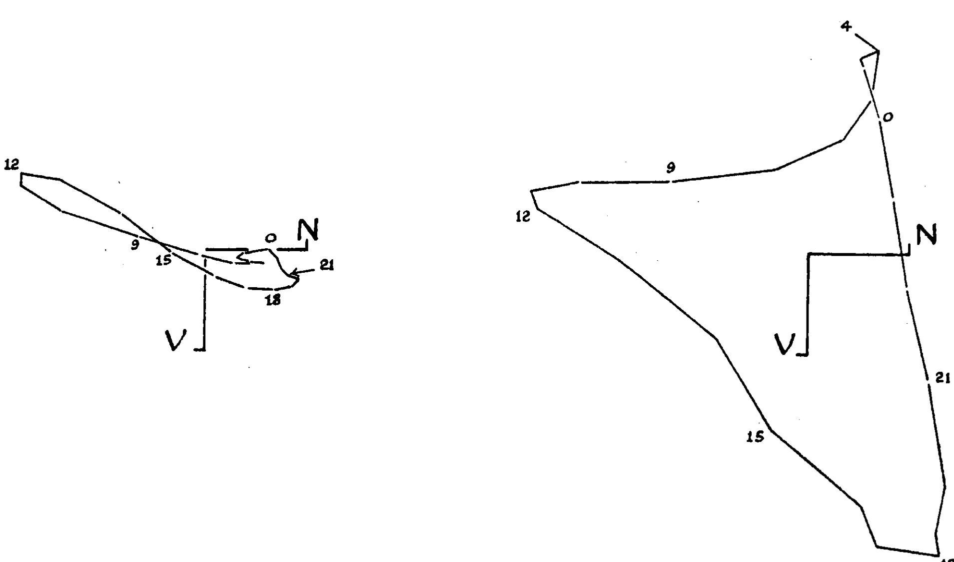
Horizontal Components



Prime Vertical Components



Meridian Components



The average values of the diurnal inequality ranges for the year and seasons for the period 1916-26 (not the values of the range of the representative mean diurnal inequalities for this period) are given below, along with the 1931 values expressed as a percentage of the average values. The units employed are 1γ for force and 1′ for declination. The mean sun-spot number for 1916–26 is 46·7; that for 1931 is 20·9. The 1931 ranges, unless in the case of W, are nearly all below the average.

	All days.					International quiet days.					International disturbed days.				
	N.	W.	V.	H.	D.	N.	W.	V.	H.	D.	N.	W.	V.	H.	D.
Year, 1916–26 ..	36·6	38·7	21·9	35·6	8·26	32·7	37·0	12·1	32·4	8·00	48·3	53·7	65·6	49·7	11·14
1931 % ..	86	89	86	82	89	86	92	96	85	91	86	89	77	78	95
Winter, 1916–26 ..	22·1	27·7	15·9	18·3	6·31	19·0	19·4	5·2	15·9	4·42	30·1	49·5	53·8	27·5	10·50
1931 % ..	80	102	97	79	98	58	79	79	57	76	88	107	80	86	107
Equinox, 1916–26 ..	41·5	44·2	27·2	39·0	9·57	37·8	42·0	13·1	37·2	9·04	56·0	65·3	82·0	55·4	13·76
1931 % ..	88	88	87	83	86	95	91	92	90	93	85	87	82	83	91
Summer, 1916–26 ..	54·0	55·6	26·5	56·1	11·33	45·6	53·4	19·8	46·7	11·12	78·3	67·9	70·2	85·5	12·80
1931 % ..	86	94	93	84	95	87	100	101	86	97	77	71	66	71	81

Daily Range.—The values of mean absolute daily range for the months and seasons of the year, together with the corresponding means for 1916-26 are given in Table IV; the ranges are also expressed as percentages of the mean absolute daily range for the year.

TABLE IV.—ABSOLUTE DAILY RANGE. MEAN MONTHLY VALUES.

Month.	Mean Absolute Daily Range.						Mean Daily Range expressed as Percentage of Yearly Mean.					
	1931.			Mean 1916–26.			1931.			Mean 1916–26.		
	N.	W.	V.	N.	W.	V.	N.	W.	V.	N.	W.	V.
	γ	γ	γ	γ	γ	γ	%	%	%	%	%	%
January	47	60	23	69	73	39	61	77	55	80	88	81
February	58	71	38	69	76	38	76	92	90	80	92	80
March	65	70	29	95	94	57	85	91	68	110	113	119
April	66	64	30	98	88	54	87	84	71	114	106	113
May	72	72	39	102	88	59	95	93	91	119	106	123
June	82	80	39	92	85	46	107	104	93	107	102	96
July	79	73	36	86	82	43	103	94	84	100	99	90
August	80	79	44	98	88	55	105	102	103	114	106	115
September ..	89	88	67	100	92	63	116	114	157	116	111	131
October	116	110	84	94	93	57	151	142	196	109	112	119
November ..	87	85	46	62	66	34	113	110	108	72	80	71
December ..	76	74	35	60	64	33	100	95	83	70	77	69
Winter	67	73	35	65	70	36	88	94	84	76	84	75
Equinox	84	83	53	97	92	58	110	108	124	113	111	121
Summer	78	76	39	95	86	51	102	98	93	110	104	106
Year	76	77	43	86	83	48	—	—	—	—	—	—

The values of the mean daily range for the year are lower than the corresponding values for any year since 1925. The mean ranges are conspicuously low in all three seasons.

The frequency distribution of absolute daily ranges recorded in 1931 is shown in Table V, which also contains the percentage distribution for the period 1916–1926.

TABLE V.—FREQUENCY DISTRIBUTION OF ABSOLUTE DAILY RANGE.

Range.	Number of Cases 1931.			Percentage Distribution.					
				N.		W.		V.	
γ	N.	W.	V.	1931.	1916–26.	1931.	1916–26.	1931.	1916–26.
0–9	0	0	20	0·0	0·0	0·0	0·0	5·5	6·3
10–19	10	6	64	2·7	1·7	1·6	0·9	17·5	20·2
20–29	14	14	86	3·8	4·9	3·8	4·5	23·5	24·8
30–39	18	14	69	4·9	7·8	3·8	7·5	19·1	14·3
40–49	33	34	24	9·2	9·9	9·3	10·6	6·6	8·1
50–59	61	58	31	16·8	12·2	15·9	12·0	8·5	4·8
60–69	56	62	19	15·3	12·9	17·0	13·1	5·2	4·2
70–79	42	39	12	11·5	10·3	10·7	12·4	3·3	3·1
80–89	29	34	6	8·0	8·1	9·3	8·6	1·6	2·3
90–99	23	23	7	6·3	6·5	6·3	7·5	1·9	2·1
100–109	17	28	5	4·7	5·3	7·7	4·7	1·4	1·1
110–119	17	9	6	4·7	4·0	2·5	3·5	1·6	1·2
120–129	14	17	6	3·8	3·5	4·7	2·7	1·6	0·8
130–139	10	4	1	2·7	2·6	1·1	2·2	0·3	0·8
140–149	6	10	2	1·6	1·7	2·7	2·2	0·5	0·5
150–159	3	2	0	0·8	1·3	0·5	1·2	0·0	0·7
160–169	5	3	0	1·4	1·2	0·8	0·9	0·0	0·5
170–179	4	1	1	1·1	0·8	0·3	1·0	0·3	0·4
180–189	0	2	1	0·0	0·6	0·5	0·7	0·3	0·5
190–199	0	3	0	0·0	0·5	0·8	0·6	0·0	0·3
200+	3	2	5	0·8	4·4	0·5	3·1	1·4	3·1
Days omitted	0	0	0	..	..	..	..	..	..

TABLE VI.—PRINCIPAL MAGNETIC DISTURBANCES RECORDED AT ESKDALEMUIR, 1931.

Where the beginning of a disturbance has been marked by a " sudden commencement," the serial number is followed by an asterisk (*), and the time entered in the second column is that of the sudden commencement, estimated to the nearest minute. In other cases, the exact hour nearest the time at which disturbance may be regarded as having begun is entered in the second column. To the tabulated values of maximum and minimum the following have to be added :—N, 15000 γ ; W, 4000 γ ; V, 44000 γ.

No.	From	To	North Component.					West Component.					Vertical Component.				
			Max.	Time.	Min.	Time.	Range	Max.	Time.	Min.	Time.	Range	Max.	Time.	Min.	Time.	Range
	d h m	d h	γ	d h m	γ	d h m	γ	γ	d h m	γ	d h m	γ	γ	d h m	γ	d h m	γ
1	Jan. 14 23	Jan. 18 24	1109	16 17 59	975	17 11 23	134	244	18 9 50	91	16 17 49	153	1008	18 17 14	909	17 0 0	99
2	Jan. 25 15	Jan. 26 22	1070	25 18 8	979	26 0 51	91	223	26 8 4	90	25 22 10	133	958	25 21 22	903	26 1 58	55
3	Feb. 13 8	Feb. 16 2	1136	14 22 41	987	14 13 50	149	251	13 11 45	49	13 21 37	202	970	15 16 19	875	13 21 50	95
4*	Feb. 24 4 16	Feb. 27 21	1125	26 21 46	984	24 12 4	141	313	24 15 40	80	26 0 22	233	1088	24 19 30	848	26 0 10	240
5	Mar. 12 8	Mar. 14 10	1161	13 19 24	991	13 11 6	170	259	13 1 20	65	13 19 10	194	940	12 20 33	865	13 23 11	75
6*	Mar. 20 16 24	Mar. 22 8	1083	20 19 58	995	21 12 20	88	253	21 14 20	111	21 21 18	142	924	21 14 52	863	22 2 32	61
7	Mar. 25 0	Mar. 26 18	1119	26 0 41	1009	26 11 46	110	237	26 12 58	124	26 1 19	113	925	25 19 52	858	26 1 9	67
8	Apr. 19 11	Apr. 20 18	1091	19 19 52	936	20 10 39	155	240	19 14 30	112	19 23 53	128	932	19 18 50	859	20 2 5	73
9	May 7 1	May 8 20	1130	7 4 31	963	7 11 16	167	233	7 3 52	116	7 6 12	117	906	7 17 23	778	7 4 23	128
10	May 13 13	May 17 6	1129	13 20 51	968	15 1 28	161	221	16 12 52	73	13 20 49	148	923	13 20 49	800	15 1 42	123
11*	June 1 15 33	June 3 6	1125	1 17 40	940	2 9 20	185	249	2 14 30	121	1 22 55 and 2 9 10	128	939	2 17 51	840	3 0 26	99
12	June 8 12	June 9 8	1122	8 19 30	975	9 3 43	147	242	9 4 40	113	9 0 43	129	918	8 20 6	776	9 4 6	142
13*	June 26 15 0	June 28 24	1164	26 17 53	997	27 12 8	167	250	26 17 52	115	28 23 16	135	913	27 16 55	837	28 4 10	76
14*	July 23 3 22	July 24 16	1139	23 16 39	967	24 9 32	172	235	23 15 52	128	23 19 53	107	958	23 17 22	831	24 0 27	127
15	July 25 12	July 31 2	1108	28 21 18	981	26 0 22 and 28 11 40	127	235	28 13 44	128	26 1 50 and 28 7 46	107	928	25 16 34	841	28 23 30	87
16	Aug. 7 8	Aug. 11 20	1138	9 20 9	994	9 12 8 and 9 12 40	144	241	9 0 20	114	9 20 22	127	933	8 19 33 and 9 15 46	819	9 2 49	114
17	Aug. 19 11	Aug. 21 23	1128	20 19 18	966	20 11 27	162	213	20 15 8	108	20 19 10	105	923	21 16 25	866	20 8 10	57
18	Aug. 24 15	Aug. 25 23	1112	25 18 32	971	25 11 30	141	230	25 14 6	102	25 2 53	128	935	25 17 53	833	25 4 27	102
19	Sept. 3 7	Sept. 7 20	1140	4 17 37	955	6 9 18	185	223	3 13 19	102	4 2 5	121	964	6 16 16	795	4 3 6	169
20	Sept. 14 6	Sept. 17 24	1124	14 21 20	956	15 9 54	168	232	17 4 51	89	17 0 20	143	986	15 18 12	790	16 1 29	196
21	Sept. 20 14	Sept. 22 24	1088	21 23 32	974	21 0 16	114	211	21 0 5	84	21 1 55	127	951	20 19 50	843	21 1 26	108
22	Sept. 30 22	Oct. 6 5	1121	1 18 20	946	5 8 50	175	232	2 14 34	48	2 18 51	184	1002	2 15 49	817	2 23 21	185
23*	Oct. 11 22 36	Oct. 13 17	1203	12 22 42	949	13 1 49	254	224	13 6 12	50	13 1 23	174	1015	12 18 0	742	12 23 6	273
24	Oct. 26 19	Oct. 31 24	1370	29 15 50	899	29 21 11	471	379	29 15 47	3	29 20 49	376	>1147	Between 29 15 42 and 16 8	783	29 21 4	>364
25	Nov. 5 3	Nov. 10 24	1120	7 21 55	961	6 11 9	159	202	6 12 58	48	6 17 9	154	967	5 16 8	834	9 1 11	133
26	Nov. 14 7	Nov. 19 22	1122	15 22 6	976	16 21 48	146	217	15 22 30	60	16 19 43	157	925	16 17 4	823	16 21 40	102
27*	Nov. 26 11 7	Nov. 27 24	1107	27 19 53	965	26 13 30	142	208	26 16 4	47	26 22 9	161	940	26 15 26	809	27 3 49	131
28	Dec. 1 12	Dec. 6 6	1142	2 20 8	967	5 12 30	175	193	2 9 19	0	2 21 4	193	918	4 15 23	821	5 1 20	97
29*	Dec. 10 1 0	Dec. 13 4	1115	12 19 30	983	12 12 0	132	187	11 16 18	66	11 20 9	121	943	11 19 42	852	10 3 20	91
30	Dec. 28 2	Dec. 31 2	1115	28 23 38	973	30 1 19	142	217	30 1 40	48	30 0 52	169	930	28 18 50	850	30 5 0	80

The intervals of maximum frequency in 1931 lie between 50 and 59γ for N, 60–69γ for W, and 20–29γ for V. These are much the same as in recent years. In 1923, the year of the last sunspot minimum, the intervals were 40–49γ for N and W, 10–19γ for V.

On 17 days in 1931 the absolute range in either N or W was 160γ or more. The numbers of such days in the years 1915 to 1930 were, in order, 30, 47, 35, 56, 58, 36, 27, 32, 11, 10, 24, 46, 41, 48, 50, 88. The frequency of occurrence in 1931 of ranges in excess of 199 γ is conspicuously low. There was only one day on which the range in each of N, W, and V was 200γ or more as compared with 18 such days in 1926, seven in 1927, five in 1928, nine in 1929, and 16 in 1930.

Irregular changes in Declination.—In connexion with the supply of declination data to mine surveyors it has been the practice to classify the hourly periods between the exact hours G.M.T. into four groups according to the range in declination within each period. The range limits, which were adopted in consultation with representative mine surveyors, are :—less than 5′, between 5′ and 15′, between 15′ and 30′, and greater than 30′. This method of classification has been applied to the declination records obtained in the year 1931, and the actual frequencies of occurrence of hourly ranges in the last three of the four divisions mentioned are set out below. A range of 30′ is equivalent to a change of 145γ in the component of horizontal force perpendicular to the magnetic meridian.

	Number of cases per month.												
Range Interval.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
5′ to 15′ ..	54	72	43	25	35	45	34	71	116	147	121	103	866
15′ to 30′ ..	6	4	3	1	0	1	0	2	7	30	12	11	77
>30′	0	1	0	0	0	0	0	0	0	6	0	1	8

	Hourly Distribution. 1931. Hour ending at (G.M.T.)																							
Range Interval	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
5′ to 15′ ..	62	41	49	38	31	21	19	14	14	9	17	23	19	20	29	27	33	41	48	60	60	65	60	66
15′ to 30′ ..	4	4	2	1	2	1	1	0	0	0	0	0	0	0	1	1	4	9	9	13	5	6	9	5
>30′	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	1	0	1	1	0	0

On the average quiet day the most conspicuous change in declination is that from the most easterly value at about 8h or 9h to the most westerly value at about 13h or 14h, the rate of change being greatest between 10h and 12h. The hourly range due to the regular diurnal variation at this time of day is less than 5′, but doubtless it happens at times that the occurrence of slight disturbance results in the hourly range exceeding 5′, whereas the occurrence of the same degree of irregularity at another hour of the day would not cause the hourly range to exceed 5′. Thus the figures given above for the range interval 5′–15′ tend to exaggerate somewhat the incidence of irregular changes between 9h and 13h. The hourly distributions of the frequency of occurrence of ranges between 5′ and 15′ and between 15′ and 30′ exhibit the well known tendency for irregular changes to occur predominantly during the " night " hours—at least in Europe.

Principal Magnetic Disturbances during 1931.—Particulars of the principal magnetic disturbances recorded during the year are given in Table VI. Corresponding information for the same disturbances is given in the Lerwick Section. The magnetograms for the most highly disturbed days are not reproduced in this volume, but photographic copies may be obtained on application to the Director, Meteorological Office, Air Ministry, Kingsway, London, W.C. 2.

Remarks on Magnetic and Allied Phenomena, 1931.

January.—(Average Character Figure 0·58). During the month there was no disturbance which would have been worth noticing in a disturbed year. Conditions were quiet from the morning of the 2nd till the end of the 8th. There was slight activity throughout the 9th and 10th, the largest movement being a hump of 60γ beginning at 10d 19h 20m. Another quiet period followed, until the early hours of the 16th, when the largest disturbance of the month began. The main features were an increase of the normal diurnal oscillation in V on 16d–17d and 17d–18d, and humps in N and dips in W, of the order of 70 or 80γ, at about the following times: 16d 18, 22 and 24h, 17d 16 and 18h. The ranges during the 16th–18th inclusive were N, 134γ; W, 153γ; V, 99γ. Slight activity continued till the end of the 21st.

Another small disturbance occurred on the night of the 25th–26th, N and W being slightly below, and V above, the undisturbed values from 19h to 3h. Slight activity continued till 29d 18h, after which conditions were quiet till the end of the month.

A large group of spots passed the sun's central meridian at 12·5d in latitude 7°N; maximum area 1200 millionths of hemisphere, after C.M.P.*

February.—(Average Character Figure 0·61). The most disturbed periods were 13th–15th inclusive and 24th–26th inclusive. The former began at about 13d 8h. Movements in N and W were rapid but irregular and small, the most notable being a hump of 100γ in N between 13d 21h 7 and 58m, and an approximately simultaneous dip of 110γ in W. V rose to a maximum about 13d 19½h, and fell to a minimum shortly before 22h, separated by a rounded hump from an ill-defined minimum about 14d 3h. The next two days were similar, but the maxima of V occurred earlier in the afternoon. The ranges during these three days were 149γ in N, 202γ in W, 95γ in V.

Another disturbance began at the end of the 23rd, and reached its greatest intensity on the following afternoon. V rose to a maximum, about 160γ above its undisturbed value, shortly before 20h, afterwards falling rather rapidly until 22h. N, after an oscillation covering some 95γ around 24d 6h, fluctuated irregularly during the rest of the day. W was slightly above its undisturbed value between 24d 14 and 19h, and below from 20h till 25d 1h. Conditions were temporarily quiet from midnight till the afternoon of the 25th, when there was a renewal of disturbance. The minimum of V occurred a few minutes after midnight after a rapid drop of 90 γ, coincident with which were sharp fluctuations of the order of 40γ in N, and a rapid drop of 120γ in W; V and W rose gradually until 26d 4h. Activity continued during the 26th and 27th, but the only noteworthy movement was a rapid rise of 80γ in N beginning at 26d 21h 26m, occurring after five very quiet hours; this was the absolute maximum of N for the storm. A similar but smaller movement occurred about 22 hours later. The ranges during the 24th–26th were: N, 141γ; W, 233γ; V, 240γ.

The quietest periods of the month were 6–12d and 19–22d inclusive.

The largest sunspot group for over a year crossed the central meridian at 20·8d in latitude 6°N. It began as a small group near the east limb on February 14th and increased in size to 1700 millionths of the hemisphere by February 21st, after which it was not unusually active.†

* Nature, Vol. 129, p. 284 (1932); also Monthly Notices, R.A.S., Vol. 92, No. 4, p. 312 (1932), where a fuller account of the year's sunspots is given.

† Nature, Vol. 127, p. 321 (1931); and references under January.

March.—(Average Character Figure, 0·71). There was minor disturbance from the morning of the 2nd to the end of the 3rd and again during the 8th and 9th. On the 10th at 15h 58m there was a small abrupt rise in N and W, followed a few minutes later by a larger drop ; N was slightly below its former value for two hours afterwards.

A disturbance began on the morning of the 12th and reached its greatest intensity at 20h. The maximum of V occurred between 20 and 21h and was followed by an irregular fall to a minimum shortly before 13d 2h. W was below its normal value from 20h till 1h and rose to a rounded peak at 1h 20m ; N fluctuated irregularly during this period. The next night the disturbance was similar, the most notable movements being a dip of 130γ in W, with minimum at 13d 19h 10m, and a peak of 100γ in N at 19h 24m. The ranges during these two nights were : N, 170γ ; W, 194γ ; V, 75γ. There was slight disturbance during the morning of the 14th and minor activity continued until the afternoon of the 15th.

After a quiet period from about 16d 18h onwards, there was a small sudden commencement at 20d 16h 24m. Only very small oscillations followed, until the night of the 21st–22nd, when there were a few larger irregular fluctuations in all components. After this there was activity of a minor order until the end of the 29th. Between 26d 0h 31 and 41m N rose by 77γ, afterwards falling rapidly ; an oscillation in W and a dip of 50γ in V took place at the same time.

From 30d 0h till 31d 4h conditions were quiet.

A large sunspot group passed the central meridian at 15·4d in latitude 4°N ; maximum area 1000 millionths.*

April.—(Average Character Figures, 0·30). There was very little disturbance this month. The following were the dates of most noticeable activity : 1, 3, 4, 9, 10, 11, 19, 20, but the absolute ranges during the month were only 174γ in N, 128γ in W and 89γ in V. None of the disturbances seems worthy of description.

Very quiet periods were 5d 6h to 7d 20h, 12d 0h to 15d 6h, 27d 4h to 28d 6h.

There were no large sunspots during this month.

May.—(Average Character Figure 0·65). A disturbance began at 7d 1h, the previous seven hours having been quiet. Between 2h 50m and 4h 20m V fell by 100γ ; it remained at a low value for about 40 minutes and then rose gradually till 8h. W was above its undisturbed value between 2h 40m and 4h 20m and below from about 5 to 8h. There were two irregular humps of some 80γ in N, with maxima at 3h 10m and 4h 31m, followed by rapid irregular fluctuations until the end of the day. The ranges during the 7th were : N, 167γ ; W, 117γ ; V, 128γ.

Conditions were quiet from 8d 20h to 11d 6h, but became disturbed during the 11th. Disturbance was slight from about 12d 10h, but, after a temporary increase on the afternoon of the 13th, was renewed with greater intensity at the end of the 14th. V, after a rounded maximum at about 14d 20h, was below its undisturbed value till 15d 6h, during which interval N and W fluctuated irregularly. There was disturbance throughout the 15th, but it diminished during the next three days.

The 19th–24th inclusive were moderately quiet. Slight disturbance occurred from 25d 12h till the end of the 26th. The period 27d 22h to 29d 6h was very quiet.

A large sunspot group passed the central meridian at 20·5d in latitude 16°S.*

* See references under January.

June.—(Average Character Figure 0·77). There was disturbance of moderate intensity on several days of this month.

A small sudden commencement at 1d 15h 33m was followed by considerable activity, which lasted till the beginning of the 3rd. Disturbance was greatest between 9 and 18h on the 2nd, several fluctuations of the order of 75γ in N and 40γ in W occurring in this period, while V was rising to its maximum. After 18h conditions were less disturbed, except for a slight outbreak from 23 to 24h. The minimum of V occurred soon after midnight. Ranges in the period described were: N, 185γ; W, 128γ; V, 99γ.

A small disturbance began soon after noon on the 8th. The maximum of V occurred a few minutes after 20h, simultaneously with a small dip in W. V began to fall more rapidly at 9d 1h, reached a minimum at 4h and rose gradually until 13h. The greatest fluctuations in N and W took place between 1 and 6h. The ranges during this night were N, 147γ; W, 129γ; V, 142γ.

During the succeeding days activity gradually decreased until by the end of the 14th conditions were quiet.

After a small sudden commencement at 21d 14h 34m there was some minor activity, particularly between 18 and 20h; this continued till about the end of the 24th.

At 26d 15h 0m there was a sudden commencement, in which N rose by 80γ in 5 minutes. This was immediately followed by activity in N and W, particularly in N for the first three hours. A shallow dip occurred in W between 22h and 27d 1h. The movements in V were very small. Disturbance increased somewhat after about 27d 8h and continued vigorously but without very large movements until the end of the 28th. Ranges during 26–28d inclusive were: N, 167γ; W, 135γ; V, 76γ.

Minor activity continued till the end of the month.

There were no large sunspots during this month.

July.—(Average Character Figure 0·65). No disturbance worthy of description took place during the first 22 days, though there was minor activity on many of them, notably on 14d 8–20h. The quietest periods were 9d 0h to 10h 15h and 19d 18h to 20d 12h.

A sudden commencement at 23d 3h 22m marked the beginning of considerable agitation in N and W; this was greatest from 10 to 18h. The maximum of V was reached at about 17½h, and there was a small hump shortly before 20h, coincident with dips in N and W. V fell to a rounded minimum soon after midnight, while N and W continued to fluctuate irregularly. The ranges during this period were N, 162γ; W, 107γ; V, 127γ.

Apart from an irregular dip in N between 8 and 11h, there was little disturbance on the 24th, but it was renewed on the afternoon of the 25th. Between 12 and 20h there were a number of irregular oscillations in N, roughly 30γ in range and 40 minutes in period; from 25d 23h till 26d 8h the oscillations were more irregular, and included a dip of 75γ between 0 and 1h.

There was another renewal of disturbance on the afternoon of the 28th, and activity was continuous till the end of the 30th. The 31st was moderately quiet.

There were no large sunspots during this month.

August.—(Average Character Figure 0·71). After continuous minor activity from the beginning of the month, conditions became more disturbed on the 7th and continued so until 9d 22h. The maximum of a hump of 100γ in W occurred at 9d 0h 20m and was followed ½ hour later by the first of two minima in V, the second occurring shortly before 3h. There were fluctuations of moderate size throughout the 9th, until, after a hump of 80γ in N between 20 and 21h, their range was greatly reduced. After a renewal during the evening of the 10th, the disturbance died away towards the end of the 11th.

The succeeding days were more or less disturbed. Disturbance increased during the 19th and 20th, being most marked after 20d 5h, when N began to fall. There was a dip of about 100γ between 5 and 9h, followed by agitation in N and W until 20h. This was renewed at 21d 4h and continued till the end of that day.

Disturbance of moderate intensity occurred also from 24d 15h to 25d 23h and from 26d 20h to 28d 2h.

There were no large sunspots during this month.

September.—(Average Character Figure 0·90). A disturbance began at 3d 7h, but nothing except minor activity developed until after midnight. Between 4d 2 and 3h, however, there was a dip of 125γ in N, followed by a peak of 65γ in W and a rather sharp minimum in V. Agitation continued throughout the day, the only notable movement being a peak of 90γ in N between 17 and 18h. Disturbance was renewed on the 6th after a dip of 100γ in N between 7 and 13h; fluctuations were rapid and irregular in N and W, especially between 14 and 18h, and between 21 and 24h.

The succeeding days were less disturbed until the 14th, then another disturbance developed in the afternoon. This was of moderate intensity until 15d 4h, after which conditions were temporarily quieter. There was a small dip in N shortly before 10h and a renewal of disturbance after 13h. The fluctuations in N and W during the 15th and 16th were of the same extent as on the 14th, but the range of V considerably greater (196γ), the minimum occurring at 16d 1½h, after a drop of 110γ since midnight; coincident with this dip in V was a hump of 80γ in W and several fluctuations of 60–70γ range in N.

Disturbance continued throughout the 16th. From 16d 22h to 17d 8h there was an irregular dip of roughly 85γ in V; this was accompanied by increased agitation of N and W.

Conditions became quieter on the 18th and 19th, but disturbance broke out again on the evening of the 20th and continued with moderate intensity till the end of the 24th, with a quiet period from 23d 0–6h. From then till the end of the month there was continuous minor activity.

There were no large sunspots during this month.

October.—(Average Character Figure 0·94). This was the most disturbed month of the year. Disturbance was almost continuous throughout the first five days, the most disturbed period being from 2d 14h to 3d 4h. During this period there were continuous rapid oscillations in all components, but they were confined within a range of some 180γ in both N and W. V reached its maximum in a hump at about 16h and fell very irregularly by 185γ to a minimum shortly before midnight.

Conditions were quiet from 9d 16h to 10d 9h, and, after a small sudden commencement at 11d 22h 36m, rather less quiet till the afternoon of the 12th. V reached its maximum, after rising smoothly by 88γ in two hours, at 12d 18h, and immediately fell at about the same rate for an hour ; the fall was then checked, but became more rapid again, until a sharp minimum (273γ below the maximum) was reached at 23h. Coincident with the greatest rate of change of V was a sharp peak of 240γ in N, with maximum at 22h 42m, and a rapid rise of 135γ in W. Thereafter V rose very irregularly, N and W continuing to fluctuate.

There was little disturbance on the 15th and following days, 16d 8h to 24h being quiet.

From the 17th to 28th inclusive there was minor disturbance, with few quiet hours. The least disturbed period was from 24d 14h to 26d 14h, and after this time activity increased.

A sharp peak in V, 30γ high, between 18 and 19h on the 27th was accompanied by slight activity in N and W. This may have been associated with the disturbance which occurred two days later, in which there were very large movements in all components. On the afternoon of the 29th V rose rapidly, with large fluctuations, exceeding the limits of registration from 15h 42m till 16h 8m. There was a very sharp peak of 330γ in N between 15h 35m and 16h 7m and an abrupt drop of 370γ in W between 15h 47m and 16h 0m, and all components were very disturbed from 14 till 18h. After 18h V fell rapidly, reaching its minimum after an abrupt fall at 21h 4m and immediately rising rapidly. There were several large oscillations in N and W between 20h 40m and 21h 40m. The ranges during the 29th were : N, 471γ ; W, 376γ ; V, $>364\gamma$.

Disturbance was smaller on the 30th. The most disturbed period was from 17 to 21h, while V was falling from its maximum. A peak of 200γ in N between 17h 50m and 18h 10m seems like an echo of that of the 29th ; it was accompanied by a large oscillation in W and an abrupt drop of 48γ in V.

There was slight disturbance during the 31st.

There were no large sunspots during this month.

November.—(Average Character Figure 0·70). On the night of 3–4d there was a small disturbance, which is mentioned only because the largest movements were in W ; in this component there were small dips at 3d 18h and 21h and humps at 4d 1h and 6h.

There was much activity of a minor order on the 5th, the most disturbed period being 16–20h, when there were rapid oscillations in all components. Activity continued for the next 6 days. The night of 8–9d was considerably disturbed, particularly from 17 to 22h, and V was slightly below its undisturbed value from about 20h till 4h.

From 12d 0h till 13d 8h conditions were quiet. Activity was then renewed, and there was considerable disturbance from about 14h till midnight on the 15th–19th inclusive.

Conditions were moderately quiet from 21d 20h till 25d 19h. After a small sudden commencement at 26d 11h 7m there was considerable agitation in N and W until 27d 5h ; V fell gradually from its maximum at 26d 15½h to its minimum shortly before 27d 4h (range 131γ). The disturbance died away and conditions became quiet at 30d 10h.

A large sunspot group passed the central meridian at 26·9d in latitude 10°N.*

December.—(Average Character Figure 0·65). Moderate disturbance was continuous from 1d 12h till the end of the 5th. On the 2nd between 19h 37m and 20h 8m N rose by 125γ, afterwards falling rapidly; there was a dip of some 100γ in W, with

* See references under January.

minimum at 19h 54m, followed by another at 21h 4m; movements somewhat similar occurred on the three following nights.

The 7th, 8th and 9th were moderately quiet, but another small disturbance developed on the 11th after a sudden commencement at 10d 1h 0m. The only noteworthy movement took place between 11d 19 and 21h, and consisted of two humps of 70γ in N, an irregular dip of 95γ in W and a narrow peak of some 40γ in V. On the next day a dip of 65γ in W around 16h was associated with a small dip in N and a small hump in V, while a double hump in N occurred between 18h 30m and 20h.

Moderate disturbance continued till the end of the 16th. On the 15th, between 20h 54m and 21h 7m, N rose by 115γ, returning to normal by about 22h. A similar but smaller peak occurred about 19h 20m on the 16th.

From 17d 23h till 23d 12h, from 24d 6 to 20h and from 26d 2h till 28d 6h, conditions were quiet, but there was slight disturbance during the rest of the month. Between 28d 23h 20m and 29d 0h 10m there was a peak of 90γ in N; this was repeated the next night about 1 hour later. No other movements appear worthy of notice.

There were no large sunspots during this month.

Readings in millibars at exact hours, Greenwich Mean Time.

167. Eskdalemuir : H_b (height of barometer cistern above M.S.L.) = 237·3 metres. **January, 1931.**

Hour. G.M.T. / Day.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Station Level	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	960·0	959·7	959·5	959·5	959·5	959·4	959·2	959·4	959·8	959·8	959·9	959·9	959·6	959·7	959·8	960·0	960·2	960·4	960·6	960·9	961·3	961·5	961·8	961·9	960·1
2	962·0	962·2	962·7	962·6	962·9	963·4	963·7	964·4	964·9	965·3	965·9	965·9	966·2	966·5	966·4	966·3	966·5	967·5	967·6	967·6	967·7	967·5	967·5	967·6	965·3
3	967·1	967·1	967·1	966·6	966·5	966·1	966·2	966·6	966·8	966·9	966·9	966·7	966·4	966·1	966·5	966·5	966·5	966·7	966·8	967·0	967·5	968·0	968·2	968·7	966·9
4	968·9	969·4	970·0	970·4	970·9	971·9	972·7	973·9	975·0	976·1	977·0	977·4	978·0	978·8	979·5	980·3	981·4	982·4	983·0	983·9	984·7	985·2	985·8	986·4	977·3
5	986·9	987·3	987·9	988·2	988·3	988·6	989·2	990·0	990·6	990·7	991·7	992·0	992·0	992·0	992·5	992·9	993·3	993·5	994·0	994·6	994·9	995·2	996·0	996·2	991·4
6	996·3	996·7	996·9	996·9	997·3	997·6	998·0	998·4	993·9	999·6	000·0	000·1	999·9	000·0	000·3	000·8	001·1	001·6	001·8	002·6	002·8	002·9	003·3	003·2	999·7
7	003·4	003·4	003·5	003·8	003·9	004·1	004·3	004·6	005·1	005·2	005·3	005·2	004·8	004·8	004·9	004·9	004·8	004·8	004·8	004·9	004·8	004·7	004·5	004·4	**004·5**
8	003·9	003·8	003·4	003·0	002·4	001·9	001·9	001·7	001·5	001·2	000·4	999·5	998·7	998·7	997·2	996·8	995·8	995·2	995·4	995·6	995·7	995·8	996·4	996·8	999·4
9	997·1	997·4	997·6	997·6	997·6	997·7	997·5	998·2	998·3	998·4	998·1	997·8	997·7	997·7	997·8	998·0	997·9	998·0	998·1	998·1	998·0	997·9	997·5	997·3	997·8
10	997·2	997·2	997·1	996·9	996·6	996·6	996·6	996·8	996·4	996·5	996·0	995·4	994·5	994·4	994·4	994·5	994·6	994·6	994·6	994·5	994·1	993·7	993·5	992·8	995·5
11	992·4	992·0	991·5	991·0	990·0	989·5	988·9	988·2	987·6	987·2	986·0	984·8	983·8	983·1	982·3	981·9	981·3	981·0	980·9	980·4	980·1	979·7	979·2	978·7	985·4
12	978·1	977·0	976·6	975·7	975·3	974·7	974·8	974·8	974·8	975·2	974·7	974·4	974·1	973·7	974·1	974·5	975·1	975·9	976·8	977·5	978·1	978·3	978·7	979·8	975·9
13	980·6	981·6	982·6	983·6	983·8	984·6	985·7	987·1	987·6	988·0	988·4	988·4	988·7	989·1	989·5	989·7	990·4	990·7	991·7	992·2	992·3	992·5	992·5	992·2	987·8
14	991·8	991·8	997·7	991·5	991·1	991·1	991·1	991·2	990·8	990·4	989·9	988·8	987·8	987·0	986·2	985·7	985·3	985·0	984·6	984·4	983·5	982·9	982·5	982·3	988·3
15	981·7	979·7	980·2	979·9	980·2	980·7	981·9	982·2	982·9	982·9	983·5	982·9	982·9	982·8	982·8	982·8	982·6	982·9	982·1	981·4	980·2	979·8	979·4	979·5	981·6
16	979·1	978·4	978·3	976·6	976·4	975·6	975·3	974·3	973·2	972·3	971·8	970·6	969·2	976·8	966·5	964·6	963·4	962·2	963·2	963·9	965·3	966·0	966·2	966·2	970·5
17	965·2	964·1	963·7	964·2	965·6	966·3	966·9	967·7	968·7	969·1	971·0	971·4	972·2	973·5	974·5	975·4	976·7	977·6	978·3	978·6	978·7	979·1	979·9	980·5	971·7
18	980·9	981·5	981·7	981·6	981·3	981·2	981·3	981·5	982·1	982·8	983·0	983·0	982·9	982·6	983·2	983·2	983·1	982·5	982·4	981·6	980·6	979·7	978·5	977·6	981·7
19	976·7	976·2	975·6	975·2	975·1	975·5	975·9	978·5	979·2	979·5	979·6	979·9	980·3	980·5	981·3	981·6	982·2	982·3	983·0	983·1	983·1	983·1	982·8	982·8	979·6
20	982·7	982·6	982·4	982·2	981·8	981·5	981·3	982·2	982·3	982·8	983·3	984·5	985·5	986·4	987·6	988·0	988·7	989·2	989·7	990·0	990·1	990·4	990·3	990·5	985·5
21	990·2	990·3	990·0	989·3	988·7	988·0	987·7	987·6	987·3	986·7	986·2	985·7	984·9	984·3	984·0	983·6	983·1	982·6	982·2	981·9	981·4	980·9	980·1	979·4	985·5
22	978·5	978·2	977·9	977·6	977·5	978·0	978·0	979·0	978·8	979·3	979·3	979·2	978·6	978·3	977·9	977·2	976·1	974·9	974·0	972·0	970·7	968·7	966·5	964·5	976·2
23	962·5	961·3	960·5	959·6	958·7	958·4	958·0	958·4	958·2	957·8	955·6	956·0	953·9	953·4	952·2	951·5	949·0	946·7	946·4	945·2	943·8	943·4	944·1	945·5	**953·7**
24	946·6	947·4	948·1	948·5	948·2	948·5	948·5	950·1	951·2	952·3	953·7	955·3	956·5	957·3	958·2	959·4	960·1	961·6	962·2	962·7	963·0	964·2	965·0	965·5	955·2
25	966·1	966·3	966·6	967·2	967·0	967·2	968·1	969·7	970·8	971·9	972·4	973·5	973·7	973·9	974·5	975·1	975·3	976·0	975·8	976·2	976·7	977·3	977·6	978·3	972·1
26	979·2	980·2	980·9	982·2	983·0	983·6	983·7	983·9	984·9	985·4	985·6	985·4	985·6	985·8	986·4	987·4	988·3	989·3	989·5	990·3	990·5	992·1	992·1	992·5	985·9
27	992·5	992·5	992·7	992·8	992·8	992·8	992·7	992·4	992·3	991·8	991·1	990·2	988·9	987·3	986·3	985·3	984·0	983·0	981·1	979·7	977·6	976·1	974·6	973·1	987·2
28	971·8	970·8	970·0	969·8	969·9	970·1	970·9	971·8	972·4	973·1	973·3	974·0	974·4	974·4	974·6	974·5	974·4	974·1	973·7	973·2	972·7	972·2	972·0	971·4	972·5
29	970·6	970·0	969·5	968·9	968·5	968·0	967·8	967·9	968·1	968·4	968·6	969·0	968·9	969·1	969·7	970·6	971·4	972·3	973·3	974·2	975·2	976·0	976·9	977·3	970·7
30	977·8	978·4	979·1	979·9	980·7	981·5	982·2	983·1	984·2	984·7	985·5	986·3	986·8	986·9	987·8	988·6	989·2	989·5	989·7	990·0	990·0	989·8	989·7	989·6	985·2
31	989·3	988·6	987·8	986·9	985·9	984·7	983·5	982·5	981·2	979·9	978·7	977·2	974·9	973·2	971·4	970·2	968·9	967·7	967·5	967·1	966·6	966·1	965·9	966·0	976·8
Mean (Station level)	979·91	979·78	979·97	979·67	**979·59**	979·64	979·79	980·26	980·53	980·68	**980·72**	980·66	980·40	980·29	980·33	980·38	980·35	980·38	980·48	980·49	980·38	980·35	980·29	980·27	980·23
Mean (Sea level)	1009·27	1009·11	1009·30	1008·99	**1008·92**	1009·00	1009·16	1009·64	1009·90	**1009·98**	1009·94	1009·81	1009·50	1009·37	1009·42	1009·55	1009·55	1009·62	1009·76	1009·81	1009·61	1009·71	1009·64	1009·63	1009·51

168. Eskdalemuir : H_b = 237·3 metres. **February, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Station Level	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	966·4	967·2	967·8	968·4	969·2	969·7	970·5	971·7	973·4	974·3	975·8	977·1	977·8	978·2	978·9	979·7	980·9	982·2	983·0	983·0	983·1	983·1	983·4	983·9	975·8
2	983·6	983·6	983·6	983·6	983·6	983·7	983·7	984·1	984·7	985·0	985·0	984·8	984·6	984·0	983·5	983·0	982·6	981·8	982·6	984·8	987·1	988·7	989·9	990·1	984·5
3	990·7	991·6	992·1	993·8	993·9	994·9	995·6	996·2	996·9	997·4	997·6	998·0	998·3	998·0	997·9	998·0	998·2	998·3	998·2	998·6	998·5	998·7	998·6	998·5	996·4
4	998·1	998·1	998·0	997·7	997·4	997·1	997·0	996·9	996·6	997·1	996·7	996·3	996·1	995·8	996·1	996·5	996·0	996·8	996·8	996·7	996·2	996·2	996·2	996·6	**996·8**
5	996·2	996·0	995·9	995·4	995·3	995·1	994·6	994·7	994·7	994·5	993·6	993·0	991·9	990·8	990·3	989·5	988·8	987·9	987·3	986·6	985·7	984·8	984·0	983·5	991·5
6	982·7	982·6	982·1	982·0	981·9	981·7	981·9	981·9	981·8	981·9	982·0	982·0	982·0	982·0	982·0	982·0	982·3	982·6	982·5	982·4	982·4	982·4	982·4	982·4	982·2
7	982·5	982·6	982·6	982·6	982·6	982·1	982·1	982·0	981·7	981·3	981·0	980·7	980·1	979·8	979·7	979·6	979·7	980·2	980·6	980·2	979·8	979·6	979·2	979·1	981·0
8	978·9	978·3	977·8	977·3	976·6	975·7	975·0	974·7	974·5	973·6	973·5	973·1	972·5	971·9	971·8	972·0	972·0	972·0	972·1	972·0	972·6	973·2	973·2	973·6	974·2
9	973·8	973·7	973·9	973·9	974·3	975·0	975·4	976·6	977·6	978·5	978·9	979·0	979·2	979·1	978·6	978·1	977·7	977·1	976·5	974·7	974·5	972·6	971·4	970·0	975·9
10	968·8	968·0	967·0	967·2	967·4	967·8	968·8	969·5	969·4	969·7	970·3	970·7	971·1	971·5	973·6	975·1	976·8	978·2	978·6	979·6	979·9	980·6	980·8	980·7	972·7
11	980·8	980·7	980·4	980·0	979·9	978·9	978·1	976·6	974·8	973·1	970·0	966·5	963·1	960·4	959·3	958·4	957·9	957·0	956·6	956·2	955·8	955·0	954·7	954·4	967·6
12	954·0	954·5	955·5	956·1	956·7	956·5	957·8	959·2	960·1	960·9	961·2	961·4	961·4	962·3	963·0	964·5	965·3	965·8	965·7	965·6	965·5	964·6	964·1	964·0	960·9
13	963·6	963·4	963·1	963·6	964·0	965·1	966·0	966·8	968·7	969·8	971·3	972·0	972·4	973·3	973·8	974·3	975·1	975·9	976·7	978·1	978·7	979·7	980·4	981·2	971·2
14	981·8	982·9	983·1	983·5	984·6	984·5	985·4	985·9	986·3	985·8	985·8	986·2	985·7	985·3	984·8	984·5	983·9	983·1	982·5	981·2	980·3	979·5	978·4	977·5	983·5
15	977·0	976·3	976·1	975·7	975·4	975·4	975·0	974·8	974·8	974·8	974·3	974·3	973·5	972·7	971·8	971·1	970·5	969·7	968·9	967·8	966·5	965·5	964·1	963·1	972·3
16	962·0	961·1	960·0	959·4	959·0	958·8	958·2	958·1	958·0	957·8	957·6	957·6	957·5	957·9	958·0	958·3	958·7	959·3	960·4	961·7	962·5	963·2	964·2	964·8	**959·7**
17	965·0	964·7	965·2	965·4	965·6	966·3	967·5	969·4	970·9	973·0	975·0	976·8	978·2	978·5	980·5	981·5	982·8	984·3	985·4	986·1	986·5	986·9	987·2	987·1	975·8
18	987·4	987·3	987·3	987·4	988·3	989·4	989·9	991·0	991·5	991·6	991·4	991·4	990·9	990·7	990·4	990·0	990·4	990·2	990·0	989·9	989·4	989·2	988·6	987·9	989·6
19	987·7	987·1	986·5	985·3	985·4	984·8	984·2	984·0	983·7	983·4	983·3	982·9	982·3	981·9	981·6	981·0	980·9	980·7	980·7	980·1	979·7	979·1	978·3	977·2	982·8
20	976·1	974·8	973·3	970·8	971·0	970·4	969·8	968·9	968·2	967·5	967·2	966·5	967·2	967·6	967·9	968·1	968·5	968·8	969·0	969·5	969·9	969·9	970·1	969·9	969·8
21	969·7	969·6	969·4	969·2	969·5	970·1	970·5	971·1	971·9	972·3	973·2	973·4	974·2	974·8	975·7	976·6	977·6	978·2	978·8	979·3	979·9	980·3	981·0	981·5	974·3
22	982·2	982·2	982·3	982·4	982·7	982·8	983·4	984·0	984·1	984·0	984·1	984·0	983·3	983·2	983·0	983·2	983·3	983·7	984·2	984·8	984·9	985·7	985·7	986·0	983·6
23	986·5	987·0	987·0	987·0	987·1	987·0	987·1	987·3	987·5	987·8	988·2	988·5	988·7	989·1	989·4	990·0	990·1	991·3	992·3	992·9	993·5	994·1	994·5	994·9	989·3
24	995·1	995·2	995·1	995·3	994·8	994·6	994·5	994·0	993·6	992·4	991·9	991·0	990·6	989·5	988·8	988·3	987·7	987·2	987·2	987·2	987·1	986·7	987·1	986·8	991·1
25	987·0	986·9	987·0	986·9	986·9	986·4	986·1	985·7	985·0	985·1	984·6	983·6	982·5	981·1	981·3	980·9	979·9	979·7	980·7	980·4	980·1	979·5	979·0	979·1	983·3
26	979·2	978·6	978·4	977·7	977·6	977·9	978·0	978·4	979·9	980·7	981·1	981·6	981·3	980·7	981·2	981·7	982·0	982·7	982·7	983·6	984·1	984·4	984·7	985·1	980·8
27	985·5	985·5	985·4	984·9	984·6	984·2	984·0	983·6	983·0	982·7	982·0	981·0	979·7	978·4	977·0	976·1	975·0	974·0	973·1	972·4	971·5	970·4	969·5	968·6	979·2
28	967·8	967·5	966·7	966·1	965·4	965·0	964·5	964·3	964·0	963·7	963·4	962·7	962·3	961·8	960·6	959·7	959·3	958·8	958·9	959·2	960·1	961·5	962·0	963·3	963·0
Mean (Station level)	978·93	978·82	978·66	**978·52**	978·60	978·60	978·74	978·98	979·19	979·27	**979·29**	979·15	978·87	978·58	978·59	978·63	978·71	978·84	979·00	979·09	979·14	979·11	979·03	978·96	978·89
Mean (Sea level)	1008·13	1008·03	1007·89	1007·75	1007·84	1007·85	1008·01	1008·24	1008·41	**1008·45**	1008·43	1008·25	1007·93	**1007·61**	1007·63	1007·69	1007·82	1007·99	1008·18	1008·28	1008·35	1008·33	1008·24	1008·17	1008·06
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

169. Eskdalemuir : H_b (height of barometer cistern above M.S.L.) = 237·3 metres. **March, 1931.**

Hour. G.M.T. / Day. (Station Level)	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	964·2	965·4	966·3	967·2	968·2	969·0	969·0	970·1	971·3	972·3	973·5	975·0	975·9	976·9	977·8	979·1	980·6	981·6	982·2	982·6	983·3	983·7	984·4	984·7	974·7
2	984·8	984·8	984·6	984·4	983·9	983·8	983·7	983·3	982·9	982·6	982·4	982·1	981·7	981·3	980·9	980·6	980·3	980·1	980·1	980·1	980·1	980·1	980·1	980·1	982·1
3	980·1	980·3	980·4	980·3	980·8	980·9	981·1	981·5	981·5	981·8	982·1	982·1	982·0	981·9	982·0	982·1	982·3	982·7	983·0	983·4	983·8	983·8	984·0	984·4	981·9
4	984·5	984·5	984·5	984·8	985·1	985·4	985·8	986·3	986·8	987·2	987·5	987·6	987·6	987·7	987·9	988·3	988·6	989·3	989·7	990·1	990·1	990·3	990·5	990·4	987·4
5	990·4	990·3	990·1	990·0	989·6	989·4	989·5	989·4	989·4	989·3	989·2	988·9	988·5	988·1	987·6	987·6	987·8	987·9	988·2	988·5	988·7	988·8	988·9	989·0	989·0
6	988·9	988·7	988·5	988·4	988·3	988·3	988·3	988·3	988·2	988·1	987·4	987·2	987·1	986·4	986·0	985·9	985·9	986·1	986·4	986·5	986·4	986·0	985·8	985·5	987·3
7	985·1	984·8	984·4	984·1	983·7	983·6	983·8	983·8	983·9	984·1	983·9	983·8	983·7	984·0	984·1	984·5	984·9	985·5	986·2	986·2	986·6	987·0	987·4	987·4	984·8
8	987·4	987·4	987·3	987·2	987·5	987·5	987·5	987·5	987·5	987·4	987·4	987·4	987·4	987·2	986·7	986·7	986·6	986·4	986·5	986·2	985·9	985·8	985·3	985·0	986·9
9	984·7	984·4	984·1	983·8	983·7	983·7	983·7	984·1	984·1	983·8	983·6	983·4	983·1	982·9	982·8	982·7	982·6	982·3	982·2	981·9	981·1	980·3	979·7	979·1	982·9
10	978·9	978·5	978·1	978·0	979·9	979·9	978·1	978·6	978·5	978·5	978·4	978·4	978·0	977·7	977·4	977·2	977·1	977·2	977·3	978·0	978·3	978·5	978·8	979·0	978·3
11	979·3	979·4	980·0	980·4	981·2	981·5	982·0	982·0	982·4	982·5	982·6	982·4	982·2	981·7	981·6	981·2	981·3	981·1	981·0	980·8	980·7	980·7	980·7	980·6	981·2
12	980·3	980·2	980·1	979·9	980·1	980·0	980·2	980·4	980·4	980·5	980·6	980·5	980·2	979·7	979·4	978·9	978·6	978·6	978·7	978·6	978·2	978·1	977·5	977·1	979·5
13	976·6	975·9	975·0	973·8	972·9	972·1	971·7	971·1	970·6	970·5	970·2	970·0	969·7	969·0	968·3	967·8	967·4	967·1	967·6	968·0	968·4	968·6	968·6	968·6	**970·6**
14	968·6	968·6	968·5	968·4	968·5	969·1	969·6	970·1	970·6	971·7	972·1	972·5	973·1	973·4	973·8	974·3	974·8	975·6	976·4	976·9	977·4	978·3	978·8	979·2	972·7
15	979·4	980·2	980·2	980·2	980·4	980·8	981·3	982·0	982·4	982·8	983·1	983·2	983·3	983·3	983·3	983·4	983·6	984·0	984·5	984·8	985·0	985·0	985·0	985·1	982·6
16	985·1	985·1	985·0	985·1	985·1	985·2	985·5	985·9	986·2	986·2	986·2	986·1	986·1	986·0	985·8	985·8	985·8	986·3	986·6	987·0	987·1	987·2	987·3	987·3	986·0
17	987·0	986·7	986·5	986·3	986·0	986·0	986·1	986·2	986·2	986·1	985·9	986·0	985·7	985·1	985·0	984·7	984·7	984·7	984·7	984·9	984·8	984·9	984·9	984·9	985·6
18	984·4	984·1	983·8	983·3	983·1	982·9	983·0	983·2	983·3	983·0	982·6	982·0	981·7	981·4	981·2	980·8	980·8	981·3	981·6	981·6	981·6	982·1	981·9	981·7	982·4
19	981·5	981·2	981·2	981·3	981·5	981·7	981·9	982·4	982·1	982·0	982·2	981·8	981·4	980·8	980·6	980·6	980·2	980·5	980·6	980·9	980·9	980·8	980·8	980·8	981·3
20	980·6	980·3	979·9	979·8	979·7	979·5	979·5	979·7	979·8	979·7	979·5	979·1	978·6	977·6	977·4	977·0	977·2	977·4	977·6	977·4	977·5	977·5	977·2	977·0	978·7
21	976·8	976·5	975·8	975·8	975·7	975·5	975·8	976·4	976·6	976·8	976·8	976·9	977·0	977·4	977·7	977·8	978·0	978·5	978·8	979·5	979·5	979·6	979·7	979·9	977·4
22	979·9	979·8	979·7	979·8	980·0	980·6	980·9	981·4	981·6	981·8	982·0	982·0	982·2	982·0	982·1	982·6	982·8	982·9	983·5	983·8	984·0	984·5	984·7	984·6	982 0
23	984·7	984·8	984·8	984·9	985·4	986·0	986·8	987·4	987·9	988·7	989·0	989·5	990·5	991·1	991·4	992·4	993·1	994·1	995·0	996·2	997·0	997·8	998·6	999·1	990·4
24	999·6	999·7	999·9	000·3	001·0	001·6	002·0	002·7	003·7	003·7	003·9	004·6	005·0	004·9	004·2	004·4	005·1	005·1	005·8	006·1	006·5	006·6	006·6	006·5	003·6
25	006·1	006·4	006·4	006·5	006·6	006·9	006·6	006·6	006·4	006·8	006·6	006·3	006·0	005·5	005·0	004·8	004·9	005·2	005·4	005·7	005·9	005·7	006·0	006·1	**006·0**
26	005·8	005·2	005·0	004·8	004·4	004·3	004·1	004·1	004·0	003·7	003·5	003·1	002·5	002·3	001·9	001·4	001·5	001·4	001·5	001·5	001·3	001·1	001·0	000·8	003·0
27	000·6	000·2	999·6	999·0	998·7	998·5	998·4	998·1	997·6	997·3	996·7	996·3	995·8	995·4	994·8	994·5	994·2	994·2	984·2	994·1	994·2	994·3	994·3	994·7	996·6
28	994·9	994·9	995·0	995·1	995·3	995·8	996·4	996·2	997·7	998·4	998·5	998·8	998·8	998·9	998·8	998·9	999·2	999·5	999·8	000·2	000·2	000·4	000·3	000·4	997·9
29	000·3	000·2	000·1	999·9	999·6	999·5	999·5	999·5	999·5	999·2	998·9	998·4	997·8	997·2	996·5	996·1	995·8	995·8	995·8	995·8	995·5	995·5	995·4	995·2	997·9
30	995·1	995·0	994·6	994·4	994·2	994·1	994·1	994·1	994·1	994·5	994·6	994·6	994·6	994·4	994·1	993·7	993·8	993·6	993·6	993·6	994·1	994·5	994·6	994·7	994·3
31	995·1	994·9	994·7	994·6	994·5	994·3	994·4	994·3	994·2	994·1	993·9	993·5	993·4	993·0	992·5	992·2	992·1	992·3	992·5	992·8	992·7	992·7	992·7	992·5	993·5
Mean (Station level)	986·15	986·08	985·94	**985·86**	985·95	986·05	986·14	986·35	986·50	986·62	986·61	986·56	986·47	986·26	986·08	986·06	986·18	986·40	986·68	986·89	986·99	987·10	**987·15**	987·14	986·41
Mean (Sea level)	1015·77	1015·71	1015·55	1015·50	1015·59	1015·68	1015·78	1015·89	1015·91	1015·91	1015·80	1015·68	1015·56	1015·33	**1015·13**	1015·14	1015·34	1015·69	1016·10	1016·37	1016·53	1016·66	1016·74	**1016·76**	1015·82

170. Eskdalemuir : H_b = 237·3 metres. **April, 1931.**

Day. (Station Level)	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	992·1	992·0	991·3	989·9	990·8	990·4	990·1	989·2	989·9	988·7	988·0	987·1	986·3	985·5	984·7	984·2	983·8	983·6	983·6	983·5	982·8	982·5	981·9	981·4	987·0
2	980·3	979·4	978·5	977·7	976·8	976·4	976·4	976·3	976 0	975·9	975·1	974·6	974·4	974·1	973·7	973·6	973·8	974·0	974·5	974·6	974·6	974·7	974·7	974·7	975·8
3	975·0	975·3	975·6	976·1	976·6	977·2	977·7	978·4	978·9	979·7	980·1	980·5	980·8	981·0	981·5	981·6	982·0	982·4	982·8	983·7	984·3	984·5	984·7	984·8	980·0
4	984·7	984·6	984·6	984·6	984·7	984·7	984·6	984·4	984·2	983·7	983·4	982·8	982·1	981·4	980·8	980·2	979·2	979·2	978·9	978·1	977·5	977·1	976·9	976·8	981·8
5	976·7	976·7	976·5	976·8	976·7	977·2	978·0	977·9	978·2	978·7	978·7	978·4	978·0	977·7	977·1	976·8	976·9	977·1	977·2	977·2	977·1	977·1	977·2	977·4	977·4
6	977·7	977·5	977·6	977·8	978·0	978·8	979·0	979·5	979·4	979·6	979·8	979·9	980·0	979·9	979·9	979·9	979·9	980·0	980·0	980·6	980·6	980·7	980·9	981·0	979·4
7	980·8	980·7	980·5	980·1	980·1	980·2	980·1	980·2	980·0	979·7	979·3	979·2	978·9	978·5	978·6	978·8	978·9	979·0	979·9	980·1	980·1	980·2	980·4	980·4	979·8
8	980·5	980·6	980·4	980·2	980·3	980·5	980·7	980·8	981·0	981·2	981·0	981·0	981·1	981·1	979·9	979·9	979·8	981·2	981·6	981·6	982·1	982·5	982·9	983·6	981·0
9	984·2	984·4	984·5	984·9	985·5	986·0	986·5	986·6	987·3	988·0	988·3	988·6	988·7	988·8	988·8	989·0	989·6	990·4	991·5	992·3	992·7	993·0	993·9	994·3	988·4
10	994·7	995·0	995·0	995·0	995·3	996·1	996·1	996·4	996·3	996·3	996·3	996·3	996·2	995·9	995·2	994·9	994·9	994·9	994·9	994·9	994·9	994·6	994·1	993·8	**995·3**
11	993·2	992·6	992·1	991·8	991·4	991·6	991·4	991·3	991·3	990·9	990·5	989·6	989·3	988·6	987·5	986·9	986·3	986·2	985·6	986·0	985·5	985·4	984·9	984·8	989·1
12	984·7	984·5	984·8	984·9	985·5	985·8	986·0	986·3	986·3	986·3	986·3	986·1	985·8	985·4	984·8	984·8	985·1	985·1	985·6	986·3	987·2	987·8	988·5	989·2	985·9
13	989·7	990·3	991·0	991·4	992·2	993·4	993·9	994·3	994·6	994·1	993·2	993·2	993·6	993·3	993·7	993·8	993·5	993·2	992·6	992·3	991·6	991·7	991·3	991·3	992·6
14	991·6	991·4	991·3	990·7	990·4	991·8	993·4	993·8	994·0	994·3	994·2	994·2	993·9	993·6	993·6	993·6	993·7	993·8	993·8	994·0	994·0	993·3	993·3	993·3	993·1
15	993·1	992·8	992·6	992·0	991·0	990·8	990·5	990·1	989·5	988·7	988·1	987·6	987·1	986·5	986·4	986·4	986·5	986·8	987·2	988·0	988·8	989·5	990·2	990·8	989·3
16	991·5	991·9	991·9	992·0	992·9	993·0	992·9	992·7	992·4	992·2	991·8	991·2	990·4	989·6	989·1	986·8	985·9	985·2	984·3	983·1	981·0	979·8	979·0	978·2	988·5
17	977·3	976·5	975·9	975·5	975·3	975·4	974·9	974·6	974·3	973·9	973·7	973·9	973·2	973·5	973·4	973·9	973·9	974·6	975·5	976·5	976·9	977·3	977·9	977·9	975·2
18	978·6	979·7	980·4	980·9	981·3	981·9	982·4	982·8	983·0	983·4	984·0	984·7	985·0	985·2	985·6	986·1	986·1	987·2	987·9	988·4	988·7	989·0	989·0	989·2	984·4
19	989·2	989·4	989·5	990·1	990·4	991·0	991·4	991·6	991·6	991·4	991·5	991·7	991·5	991·6	991·4	991·5	991·4	991·5	992·3	992·3	992·5	992·3	992·3	992·2	991·3
20	992·1	991·8	991·2	990·8	990·6	990·4	990·3	990·1	990·1	990·2	990·0	989·8	989·6	989·3	989·1	989·0	989·0	989·0	989·2	989·3	990·1	990·1	990·0	989·8	990·1
21	989·3	989·2	988·7	988·3	988·2	988·1	988·0	987·6	987·2	986·6	986·2	985·7	985·0	984·4	984·0	983·4	983·0	982·6	982·4	982·3	982·3	982·3	982·1	982·0	985·5
22	981·8	981·3	980·9	980·4	980·1	979·7	979·7	979·5	979·3	978·8	978·3	978·0	977·5	977·2	977·2	976·9	976·9	976·8	976·8	977·0	976·9	976·8	976·5	976·4	978·5
23	975·8	975·3	974·9	974·5	974·2	973·7	973·2	972·8	972·6	972·4	972·3	972·1	971·9	971·5	971·3	971·0	970·4	970·3	970·2	970·3	970·8	970·6	970·6	970·4	972·3
24	970·2	970·0	970·0	969·8	969·8	969·8	969·9	969·9	969·7	969·2	968·7	968·4	968·0	967·7	967·1	966·2	965·6	965·3	965·7	966·0	966·0	965·9	965·8	965·8	968·0
25	965·5	965·0	964·7	964·3	964·0	963·7	963·3	963·2	962·7	962·2	961·9	961·7	961·2	961·3	961·2	961·1	961·1	961·2	960·8	960·8	960·7	960·3	959·9	959·4	**962·3**
26	959·8	959·7	959·6	959·6	959·6	959·9	960·1	960·7	961·3	961·8	962·6	963·3	964·2	964·9	965·5	966·4	967·3	968·1	969·1	970·3	970·8	971·9	972·2	972·7	964·4
27	973·2	973·6	973·9	974·2	974·2	974·2	974·1	974·2	974·2	974·2	973·9	974·7	974·8	974·6	974·7	975·3	977·2	977·4	978·4	979·5	980·4	981·2	981·5	982·0	975·9
28	982·3	982·4	982·5	982·6	982·7	983·0	982·8	983·0	982·6	982·6	982·6	983·1	983·3	984·0	983·5	984·1	984·6	985·4	986·4	987·2	987·4	987·9	988·1	988·6	984·1
29	988·7	988·9	988·9	988·9	989·1	989·2	989·6	989·7	989·9	989·6	989·5	989·4	989·4	989·4	989·1	989·0	988·9	988·9	988·9	989·1	989·1	988·9	988·7	988·4	989·1
30	988·1	987·7	987·3	986·9	986·4	986·1	986·0	985·9	985·1	984·9	984·4	984·1	983·9	983·8	984·0	983·6	983·1	982·8	982·4	982·8	982·6	982·3	981·9	981·4	984·6
Mean (Station level)	982·75	982·67	982·55	982·42	982·47	982·67	982·77	**982·82**	982·74	982·64	982·46	982·36	982·17	981·98	981·75	981·62	**981·61**	981·77	982·00	982·27	982·33	982·37	982·38	982·40	982·34
Mean (Sea level)	**1011·92**	1011·87	1011·75	1011·61	1011·66	1011·84	1011·83	1011·75	1011·54	1011·34	1011·11	1010·98	1010·73	1010·54	1010·30	**1010·20**	1010·28	1010·50	1010·85	1011·22	1011·32	1011·43	1011·47	1011·53	1011·24
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

171. Eskdalemuir : H_b (height of barometer cistern above M.S.L.) = 237·3 metres. **May, 1931.**

Hour G.M.T. / Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Station Level	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	981·3	980·7	980·3	979·4	978·9	979·3	978·9	978·7	978·1	978·1	977·8	977·5	977·3	977·5	977·5	977·6	977·6	977·5	977·8	978·3	978·4	978·5	978·7	978·7	978·6
2	978·7	978·7	978·6	978·7	978·7	978·8	979·0	978·9	978·9	978·8	978·8	978·8	978·7	978·7	978·5	978·4	978·4	978·5	978·6	979·0	979·0	979·0	978·9	978·9	978·7
3	978·8	978·4	978·2	977·9	977·9	977·9	977·8	977·7	977·4	977·2	976·9	976·4	975·9	975·3	974·9	974·8	974·9	974·9	974·9	975·0	974·8	974·6	973·9	973·1	976·3
4	973·0	972·3	971·6	970·8	970·4	970·1	970·1	969·7	969·4	968·7	968·4	968·3	968·4	968·5	968·7	969·0	969·4	969·7	970·5	971·3	971·8	972·4	972·5	972·8	**970·3**
5	973·1	973·4	973·6	973·9	974·5	975·0	975·5	975·8	975·9	975·5	977·2	977·5	977·7	978·0	978·6	979·0	979·4	980·1	980·3	980·9	981·1	981·2	981·0	981·0	977·3
6	981·4	981·8	982·3	982·7	983·4	984·1	984·4	984·7	984·9	985·0	985·1	985·2	985·3	985·4	985·5	985·0	984·9	984·9	985·0	985·4	985·9	986·2	986·3	986·1	984·5
7	986·0	985·7	985·5	985·4	985·4	985·4	985·4	985·1	985·1	985·1	984·9	984·6	984·8	985·1	985·1	984·8	984·8	984·8	985·2	985·5	986·1	986·1	986·2	986·4	985·3
8	986·3	986·3	986·2	986·6	986·8	987·2	987·5	988·3	989·0	990·1	990·7	990·7	991·4	991·7	991·8	992·4	993·0	993·6	994·2	994·7	995·3	995·5	995·6	996·0	990·7
9	996·1	996·0	996·1	996·0	996·2	996·1	995·9	996·0	995·9	995·6	995·1	994·9	994·7	994·5	994·1	993·9	993·7	993·4	993·3	993·3	993·0	992·7	992·6	992·2	**994·7**
10	991·6	991·0	990·2	989·0	988·7	988·6	988·2	987·8	987·5	987·6	987·3	987·0	986·8	986·3	985·8	985·4	984·9	984·7	984·0	983·5	983·4	983·3	982·6	982·3	986·8
11	981·6	980·7	979·7	979·2	978·7	978·9	979·3	979·8	980·4	980·4	980·6	980·8	981·4	981·5	981·6	981·8	982·6	982·8	982·8	984·6	985·3	985·3	985·8	986·0	981·7
12	986·4	986·4	986·4	986·4	986·8	987·2	987·5	987·9	988·0	987·8	988·1	988·2	988·1	988·1	987·8	987·6	987·5	987·5	987·4	987·3	987·1	986·8	986·7	986·5	987·3
13	985·7	985·0	984·7	983·8	983·4	983·1	982·7	982·0	981·5	981·3	980·8	980·4	979·9	979·5	979·0	978·1	977·4	977·1	976·8	976·6	976·5	976·2	975·4	974·9	980·3
14	974·4	974·0	973·5	972·6	972·5	972·7	972·7	972·7	973·0	973·2	973·3	973·3	973·4	973·5	973·7	973·8	974·1	974·7	974·8	974·6	974·7	974·8	975·0	975·1	973·7
15	975·2	975·1	975·1	975·0	975·0	975·1	975·4	975·5	975·4	975·5	975·6	975·5	975·2	975·0	974·6	974·3	974·1	974·1	974·1	974·3	974·4	974·3	974·3	974·5	974·9
16	974·2	974·4	974·5	974·8	974·8	974·9	975·2	975·1	975·1	975·3	975·1	974·6	974·5	974·4	974·2	974·1	973·8	974·3	974·1	974·1	974·0	974·0	974·0	973·9	974·5
17	973·7	973·3	973·1	973·1	973·0	973·0	973·0	973·3	973·2	973·0	972·9	972·8	972·3	972·3	972·1	972·1	972·5	972·6	972·7	972·8	973·3	973·3	973·2	973·2	972·9
18	973·1	973·0	973·1	973·3	973·4	973·7	974·0	974·4	974·4	974·5	974·7	974·7	975·0	975·1	975·3	975·6	976·0	976·5	977·1	978·0	979·0	979·4	980·0	980·1	975·4
19	980·6	981·0	981·3	981·7	982·5	983·2	983·6	984·2	984·6	984·9	985·2	985·7	986·1	986·2	986·5	987·1	987·5	987·9	988·4	989·2	989·9	990·4	990·4	990·3	985·6
20	990·5	990·4	990·1	990·4	990·7	990·9	990·8	990·7	990·5	990·4	990·1	989·9	989·4	989·1	988·9	988·8	988·5	988·4	988·6	989·0	988·9	989·0	988·9	988·6	989·7
21	988·4	988·5	988·2	988·3	988·2	988·1	987·9	988·0	987·7	987·4	987·2	986·9	986·6	986·3	986·1	986·3	986·1	986·2	986·0	986·5	986·5	986·8	986·3	986·0	987·2
22	985·9	985·7	985·3	984·8	984·7	984·4	984·1	984·2	984·1	984·1	983·8	983·8	983·1	983·2	982·8	982·8	982·9	983·0	983·0	983·0	983·0	983·1	983·0	982·8	983·8
23	982·6	982·7	982·7	982·7	982·5	982·6	982·6	982·6	982·7	982·4	982·1	981·7	981·7	981·1	981·1	980·9	980·9	980·8	980·7	981·1	981·0	980·9	980·7	980·3	981·8
24	979·6	979·7	979·0	979·0	978·5	978·6	978·1	977·9	977·9	977·5	977·1	976·3	976·1	976·7	977·0	977·3	977·3	977·9	978·4	979·3	980·0	980·5	980·9	981·4	978·4
25	981·5	982·1	982·5	983·0	983·0	984·0	984·9	985·5	986·0	986·5	986·8	987·1	987·1	986·9	987·1	987·1	987·1	987·3	987·8	988·0	988·4	988·2	988·5	988·5	985·9
26	989·2	989·3	989·3	989·3	989·7	989·8	990·1	990·3	990·6	991·0	991·1	991·4	991·4	991·4	991·4	991·3	991·3	991·6	991·6	991·8	992·0	992·3	992·4	992·3	990·8
27	992·1	991·6	991·4	991·4	991·3	991·0	991·1	991·1	991·0	990·9	990·3	989·7	988·6	988·2	988·1	988·0	987·7	987·8	988·0	987·9	987·7	987·4	987·1	986·7	989·5
28	986·4	985·7	984·0	984·3	984·3	983·4	982·8	982·4	982·3	980·4	979·7	978·8	978·0	977·3	977·5	976·5	976·2	976·5	976·6	976·8	977·5	977·7	977·7	978·0	980·2
29	978·3	978·6	978·6	978·6	979·2	979·2	979·2	979·6	980·1	979·7	979·7	979·4	979·2	979·0	978·5	977·8	977·3	977·1	977·1	978·3	979·1	978·5	978·0	977·9	978·7
30	977·9	977·8	977·6	977·6	977·8	978·1	978·7	978·8	978·8	978·8	979·0	978·7	978·9	978·7	979·0	978·9	979·1	979·1	979·2	979·2	979·7	979·5	979·6	979·6	978·7
31	979·2	979·1	978·7	978·9	979·0	978·9	978·9	979·1	979·2	979·0	978·5	978·7	979·1	979·1	979·0	979·0	978·8	978·9	979·0	979·0	979·3	979·3	978·5	978·7	979·0
Mean (Station level)	982 ·03	981 ·88	981 ·66	981 ·57	981 ·61	981 ·72	981 ·78	981 ·87	981 ·89	981 ·80	981 ·74	981 ·59	981 ·48	981 ·41	981 ·35	**981 ·27**	981 ·28	981 ·43	981 ·55	981 ·88	982 ·13	**982 ·17**	982 ·09	982 ·03	981 ·72
Mean (Sea level)	1010 ·86	1010 ·71	1010 ·48	1010 ·41	1010 ·43	1010 ·45	1010 ·38	1010 ·36	1010 ·28	1010 ·12	1010 ·00	1009 ·77	1009 ·65	1009 ·67	1009 ·48	**1009 ·43**	1009 ·49	1009 ·71	1009 ·92	1010 ·38	1010 ·75	**1010 ·87**	1010 ·84	1010 ·80	1010 ·22

172. Eskdalemuir : H_b = 237·3 metres. **June, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Station Level	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	978·3	978·3	978·2	978·2	978·2	978·6	979·2	979·4	979·8	980·3	980·4	980·7	981·3	981·6	982·5	982·9	983·6	984·2	984·8	985·1	985·6	986·1	986·5	986·8	981·5
2	987·0	987·2	987·3	987·6	988·0	988·2	988·5	988·7	988·8	989·1	989·2	988·8	988·9	988·8	989·0	989·0	988·6	988·1	987·9	988·1	988·2	987·8	988·2	988·2	988·3
3	988·0	988·3	988·5	989·0	989·4	990·1	990·5	991·2	991·9	991·8	992·2	992·5	992·7	992·6	992·7	992·8	992·6	992·6	992·5	992·4	992·3	992·3	992·3	992·0	991·3
4	991·6	991·5	991·4	991·2	991·3	991·3	991·3	991·1	990·9	990·9	990·6	990·6	990·3	990·5	990·8	990·9	991·0	991·4	991·4	991·8	992·5	993·0	993·2	993·2	991·4
5	993·2	993·0	992·7	993·0	992·8	993·0	992·9	992·5	992·5	992·0	992·0	992·0	991·7	991·0	990·0	989·4	989·2	989·1	988·8	988·6	988·5	988·3	987·7	987·3	991·0
6	986·6	985·9	985·2	984·5	984·0	983·6	983·2	983·0	982·0	982·7	982·3	982·1	982·0	981·6	981·3	980·9	980·5	980·2	980·0	979·9	979·8	979·5	979·1	978·8	982·2
7	978·5	978·0	977·6	977·4	977·1	977·0	977·0	977·0	977·0	976·8	976·8	976·5	976·5	976·2	976·0	975·7	975·7	975·9	976·0	976·0	976·1	976·0	975·9	975·5	976·7
8	975·3	975·1	975·0	974·9	974·8	975·3	975·5	975·7	976·2	976·4	976·8	977·0	977·1	977·2	977·5	977·6	978·1	978·3	978·6	978·7	979·2	979·3	979·2	979·0	976·9
9	978·8	978·6	978·5	978·5	978·4	978·4	978·5	978·5	978·2	978·2	977·9	977·4	977·1	976·8	976·7	975·7	975·7	975·5	975·6	975·9	975·9	976·2	976·2	976·3	977·2
10	976·3	976·3	976·6	977·1	977·1	977·4	977·6	977·5	977·3	977·1	976·8	976·5	976·0	975·5	975·1	974·6	974·4	974·2	973·9	973·7	973·7	974·0	974·2	974·4	975·8
11	974·5	974·8	975·2	975·9	976·9	977·9	979·3	980·2	981·1	981·7	982·4	982·9	983·2	983·5	984·0	983·8	984·2	984·4	985·0	985·1	985·3	985·9	986·1	986·0	981·4
12	985·7	985·5	985·4	985·6	986·0	986·0	986·2	986·6	986·6	986·8	986·8	987·1	987·3	987·6	987·8	988·1	988·6	989·2	989·5	990·1	990·5	991·0	991·4	991·8	987·7
13	991·9	992·2	992·2	992·3	992·6	992·6	992·6	992·6	992·5	992·2	991·8	991·4	991·2	990·6	989·9	989·3	988·7	988·0	987·8	987·3	987·2	986·4	985·6	984·7	990·3
14	984·2	983·4	982·7	982·0	981·1	980·6	979·8	978·7	978·0	977·2	976·3	975·6	975·0	974·4	973·7	972·2	971·0	969·7	969·9	969·1	967·5	967·3	967·3	967·4	**975·5**
15	967·8	968·9	970·1	971·8	973·0	976·7	976·9	977·5	978·0	979·3	979·9	980·3	981·1	981·2	981·4	981·7	981·9	981·7	981·7	981·4	981·1	980·9	980·8	980·2	977·9
16	979·9	979·3	978·6	978·0	977·7	977·3	977·0	977·0	977·1	977·3	978·2	978·3	978·9	979·3	979·8	980·1	980·4	980·4	980·5	980·5	980·6	980·8	980·6	980·4	979·1
17	980·0	979·7	979·1	978·6	978·4	978·1	978·0	977·9	977·1	977·0	977·0	977·1	977·0	977·0	977·0	977·3	977·5	977·4	977·5	977·4	977·2	977·2	976·9	976·4	977·7
18	975·9	975·9	975·9	975·9	976·0	976·1	976·2	976·4	976·4	976·8	976·6	976·6	976·4	976·6	976·2	976·0	976·0	975·9	975·9	975·6	975·4	975·5	975·4	975·4	976·1
19	975·4	975·3	975·4	975·9	976·5	977·0	977·5	978·5	979·4	980·0	980·6	981·1	981·8	982·5	983·2	984·3	985·0	985·9	986·6	987·3	987·9	988·9	989·4	989·6	981·6
20	990·0	990·4	990·4	990·6	990·8	991·0	991·1	991·4	991·5	991·5	991·4	991·0	990·8	990·8	991·1	990·8	990·5	990·7	990·7	990·7	990·9	990·6	989·9	989·1	990·7
21	989·0	988·6	988·4	988·2	987·9	987·6	987·8	988·4	988·0	988·5	988·5	988·7	988·9	988·5	988·5	988·4	988·2	988·1	988·1	987·9	987·9	987·8	987·2	986·2	988·2
22	985·2	984·1	983·8	983·5	982·8	983·9	985·3	985·9	986·7	987·3	987·8	988·2	988·2	988·7	988·8	989·4	989·4	989·6	989·8	989·8	990·1	989·9	989·8	989·6	987·3
23	989·5	989·2	988·7	988·6	988·5	988·1	987·9	987·3	987·2	986·2	986·7	986·7	986·5	986·4	986·2	986·3	986·5	986·9	987·7	988·4	989·0	989·7	990·2	990·7	987·9
24	990·9	991·2	991·7	992·2	992·8	993·3	993·6	994·3	994·7	995·6	995·2	995·5	995·9	996·0	996·3	996·3	996·6	996·8	997·2	997·7	998·7	998·9	999·0	999·1	995·2
25	999·0	999·0	999·6	999·7	999·9	999·9	000·0	000·1	000·1	000·2	000·1	000·0	999·9	999·9	999·7	999·3	999·3	999·3	999·4	999·6	999·8	999·8	999·7	999·4	**999·7**
26	999·5	999·3	999·0	998·9	998·8	998·7	998·6	998·6	998·5	998·8	998·5	998·3	997·9	997·9	998·0	997·7	997·5	997·0	996·9	996·9	996·7	996·6	996·4	996·1	998·0
27	995·7	995·3	995·1	994·6	994·3	994·9	995·2	995·7	995·5	995·3	995·1	995·1	995·1	995·1	994·9	994·7	994·7	994·7	994·8	994·9	995·1	995·0	994·8	994·6	995·0
28	994·4	994·2	994·0	994·0	994·0	994·0	994·0	994·0	994·0	994·0	994·0	994·1	994·1	994·1	994·2	994·0	993·6	993·6	993·3	993·1	992·8	992·8	992·3	992·4	993·8
29	991·9	991·8	992·5	992·8	992·9	993·2	993·8	994·0	994·6	994·7	995·0	995·0	995·1	995·3	995·3	995·4	995·7	995·9	996·0	996·1	996·2	996·2	996·2	996·2	994·6
30	996·4	996·4	996·3	996·3	996·4	996·6	996·6	996·3	996·2	996·1	995·8	995·6	995·1	994·9	994·4	994·3	994·1	993·8	993·5	993·5	993·4	993·1	992·8	992·2	995·1
Mean (Station level)	985 ·68	985 ·56	**985 ·50**	985 ·56	985 ·61	985 ·88	986 ·05	986 ·21	986 ·27	986 ·41	986 ·42	986 ·42	986 ·43	986 ·39	986 ·36	986 ·30	986 ·29	986 ·28	986 ·38	986 ·37	986 ·50	**986 ·56**	986 ·48	986 ·30	986 ·17
Mean (Sea level)	1014 ·33	1014 ·22	**1014 ·17**	1014 ·25	1014 ·26	1014 ·47	1014 ·56	1014 ·77	1014 ·64	1014 ·74	1014 ·70	1014 ·63	1014 ·59	1014 ·52	1014 ·49	1014 ·46	1014 ·50	1014 ·57	1014 ·74	1014 ·81	1015 ·02	**1015 ·13**	1015 ·09	1014 ·93	1014 ·60
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

173. Eskdalemuir : H_b (height of barometer cistern above M.S.L.) = 237·3 metres. **July, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day. (Station Level)	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	991·6	991·2	990·6	990·4	989·7	989·8	989·5	989·2	988·8	988·3	987·8	987·3	986·3	985·6	985·3	984·6	984·1	983·7	983·5	982·8	982·3	981·7	980·9	980·6	986·7
2	979·6	978·7	977·9	977·1	976·2	975·4	975·2	974·7	974·7	974·6	974·9	975·2	975·2	975·3	975·5	975·4	975·4	975·4	976·1	976·8	976·7	977·2	977·1	976·9	976·2
3	976·7	977·2	976·1	975·9	976·1	975·5	975·2	974·7	974·0	973·4	973·3	973·0	972·8	972·4	972·4	972·1	971·9	971·8	971·8	971·6	971·6	971·3	971·5	971·0	973·6
4	970·5	970·0	969·5	969·5	970·0	970·3	970·7	971·1	971·7	972·2	972·5	972·8	973·6	973·8	974·3	974·8	974·8	974·7	975·6	976·2	977·1	977·3	977·7	978·1	973·1
5	978·0	978·0	978·0	978·3	978·4	978·9	979·0	979·3	979·3	979·2	979·3	979·4	979·1	979·2	979·2	979·5	979·5	979·9	980·2	980·4	980·6	980·7	981·0	981·0	979·3
6	981·0	980·8	980·5	980·4	980·5	980·3	980·5	980·4	980·2	980·1	979·8	979·2	978·7	977·9	978·3	978·3	978·5	978·6	978·5	978·3	978·2	978·7	978·8	978·8	979·4
7	978·8	978·6	978·7	978·8	979·0	979·0	979·1	979·1	979·2	979·0	979·1	979·1	978·8	978·7	978·0	978·3	977·9	978·3	978·4	978·6	978·6	978·6	978·4	978·3	978·7
8	977·9	977·8	977·4	977·5	977·5	977·2	977·0	977·1	977·0	976·9	976·6	976·6	976·5	976·4	976·1	976·1	975·9	976·3	976·3	976·3	976·3	976·3	976·3	976·2	976·8
9	976·2	976·1	976·0	975·9	975·9	976·0	976·1	976·1	976·1	976·2	976·5	976·8	977·3	977·6	977·6	977·8	978·6	978·8	979·4	979·6	979·4	979·6	979·6	979·4	977·4
10	979·6	979·6	979·6	979·6	979·8	980·1	980·2	980·7	980·8	981·1	981·4	981·9	982·0	982·3	982·3	982·5	982·9	983·0	983·2	983·5	983·8	984·0	984·1	984·3	981·7
11	984·4	984·4	984·5	984·7	984·9	985·1	985·0	985·2	985·4	985·4	985·4	985·5	985·4	985·0	985·0	985·1	985·3	985·3	985·3	985·2	985·3	984·9	984·3	983·4	985·0
12	983·2	982·5	981·5	981·0	980·5	980·0	979·3	978·5	977·5	978·1	977·4	977·3	976·8	976·4	975·7	975·3	975·0	974·4	974·3	974·6	974·6	974·6	974·2	974·1	977·6
13	974·0	973·9	973·9	973·9	974·2	974·2	974·4	974·6	974·7	974·8	974·1	974·3	975·2	975·2	975·2	975·2	975·3	975·3	975·3	975·3	975·3	975·3	975·3	975·4	974·7
14	975·1	974·8	974·4	974·2	974·3	974·0	973·9	973·6	973·3	973·1	973·2	973·1	972·5	972·8	973·0	972·6	972·4	972·5	972·3	972·7	972·9	972·9	973·0	973·0	973·4
15	973·3	973·3	973·1	973·2	973·4	973·8	974·0	974·4	974·8	974·7	975·2	975·7	975·9	976·4	976·6	976·9	977·2	977·4	977·9	978·6	978·9	979·4	979·6	979·7	975·8
16	979·8	980·0	980·5	980·4	980·7	981·1	981·3	981·7	981·7	982·2	982·3	982·6	983·0	983·3	983·3	983·1	983·0	983·0	982·9	982·6	982·5	982·0	981·7	981·2	981·9
17	981·0	980·7	980·5	980·5	980·4	980·1	980·2	980·2	980·2	979·8	979·8	979·4	979·2	978·5	978·0	977·7	976·7	975·7	974·5	973·6	973·1	972·3	971·9	971·7	977·9
18	971·8	971·8	971·9	972·2	972·5	973·5	974·3	975·0	975·2	975·6	975·7	976·1	976·7	976·9	977·3	977·5	977·6	977·6	977·8	978·1	978·2	978·1	978·0	977·7	975·6
19	977·2	977·1	976·7	976·4	976·5	976·5	976·3	976·2	976·1	976·0	975·8	975·9	976·0	976·0	976·0	976·1	976·5	976·8	977·3	977·8	978·4	978·8	979·2	980·7	976·9
20	980·8	981·1	981·6	982·1	982·5	983·2	983·4	983·9	984·3	985·0	985·1	985·3	985·5	985·7	986·0	986·2	986·4	986·5	986·9	987·4	987·8	987·9	987·9	988·1	984·9
21	988·5	988·5	988·3	988·4	988·7	988·7	988·9	989·1	989·2	989·1	989·1	989·1	988·9	988·8	988·5	988·4	988·2	987·7	987·3	987·2	986·6	986·2	985·8	985·2	**988·2**
22	984·9	984·4	984·0	983·5	983·6	983·4	983·4	983·1	983·5	983·4	983·1	982·7	982·9	982·8	982·1	981·5	980·9	980·1	979·3	978·9	979·0	979·1	978·8	978·7	982·1
23	978·8	978·8	978·8	979·4	979·7	979·9	980·2	980·6	980·6	980·7	980·9	981·3	981·6	981·9	982·2	982·1	982·3	982·3	982·7	982·7	983·0	983·1	983·0	982·9	981·1
24	982·1	981·7	981·4	981·0	980·8	980·6	980·3	980·0	979·7	978·9	978·6	978·3	978·0	977·4	977·0	976·6	976·3	976·0	975·8	975·5	975·5	975·1	974·8	974·3	978·3
25	973·8	973·2	972·5	972·1	971·8	971·5	971·2	971·1	971·0	970·7	970·8	970·2	970·1	969·9	969·8	970·0	969·9	969·8	969·9	970·3	970·4	970·4	970·4	970·4	971·0
26	970·3	969·7	969·6	969·4	969·4	969·9	969·9	970·1	969·9	969·9	969·9	969·9	969·8	969·8	969·4	969·0	969·1	969·1	969·1	969·1	969·2	969·1	969·2	968·9	**969·6**
27	968·8	968·7	968·5	968·3	968·6	969·1	969·3	969·9	970·1	970·1	970·3	970·7	971·1	971·1	971·3	971·1	971·3	971·2	971·1	971·4	971·6	971·6	971·6	971·9	970·3
28	972·1	972·0	971·9	972·4	973·0	973·4	974·1	974·6	975·4	976·0	976·6	976·8	977·6	977·3	979·2	979·8	980·2	980·4	980·8	980·0	983·1	984·0	983·8	984·6	977·2
29	984·9	984·8	984·6	984·4	984·3	984·2	983·8	983·1	982·8	982·2	981·6	981·0	980·2	979·7	979·2	978·4	977·9	977·7	977·4	977·1	976·8	976·6	976·5	976·4	980·8
30	976·3	976·1	976·1	976·1	976·0	976·4	976·7	977·1	977·3	977·4	977·7	977·9	978·1	978·6	979·1	979·5	979·5	979·9	980·2	980·4	980·5	980·9	981·1	981·0	978·2
31	981·0	981·0	980·8	980·6	980·7	981·0	980·4	980·6	981·8	981·5	981·4	981·8	982·2	982·4	982·6	982·6	982·6	982·8	983·2	983·7	984·1	984·3	984·5	984·6	982·1
Mean (Station level)	**978·45**	978·27	978·05	**977·99**	978·05	978·13	978·15	978·23	978·27	978·25	978·32	978·26	978·29	978·23	978·24	978·20	978·16	978·13	978·20	978·27	978·43	**978·45**	978·39	978·34	978·24
Mean (Sea level)	**1006·59**	1006·42	1006·16	1006·13	1006·17	1006·21	1006·15	1006·16	1006·13	1006·07	1006·01	1006·02	1006·02	1005·95	1005·99	**1005·93**	1005·95	1005·97	1006·09	1006·22	1006·45	1006·51	1006·48	1006·45	1006·18

174. Eskdalemuir : H_b = 237·3 metres. **August, 1931.**

Day. (Station Level)	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	984·7	984·6	984·6	984·8	985·2	985·5	985·9	986·2	986·2	986·5	986·5	986·6	986·5	986·6	986·8	986·9	987·1	987·3	988·7	988·3	989·1	989·2	989·2	989·3	986·7
2	989·4	989·5	989·7	990·0	990·2	990·8	991·1	991·9	992·4	992·9	993·1	993·5	993·9	994·3	994·8	995·2	995·6	995·7	996·3	997·3	998·0	998·6	998·9	999·1	993·6
3	999·3	999·3	999·5	999·9	000·3	000·6	000·7	001·0	001·1	001·2	000·9	001·0	000·9	000·7	000·7	000·6	000·6	000·8	001·1	001·3	001·6	001·6	002·1	001·9	**000·7**
4	002·0	001·9	001·2	001·1	001·1	001·2	001·5	001·4	001·3	001·2	001·2	000·6	000·4	000·3	999·8	999·8	999·4	999·0	999·5	999·5	999·5	999·5	999·2	998·6	000·5
5	998·2	997·6	996·9	996·3	996·3	995·8	995·3	994·8	994·5	993·8	992·3	991·9	991·5	991·3	990·4	989·7	988·8	988·8	988·9	988·8	988·5	988·2	987·9	987·2	992·5
6	986·9	986·0	985·5	985·3	984·9	984·6	984·3	984·2	984·0	983·8	983·5	983·2	982·8	982·3	982·3	982·3	982·1	981·9	982·0	982·6	982·9	983·0	983·2	983·0	983·7
7	982·7	982·2	981·9	981·6	981·7	981·8	982·2	982·6	982·7	982·4	982·3	982·2	981·7	981·3	980·9	980·5	980·0	979·5	979·3	979·1	979·0	978·8	978·6	978·1	981·1
8	977·7	977·2	977·1	977·0	977·1	977·4	977·7	977·3	977·2	977·3	977·3	977·6	978·2	978·2	978·2	978·9	979·3	980·0	980·2	980·8	981·3	981·5	982·0	982·0	978·6
9	982·0	982·2	982·5	982·5	982·8	983·5	984·0	984·3	984·8	985·2	985·3	985·7	985·7	985·8	985·7	985·7	985·7	986·0	986·2	986·1	986·0	986·0	985·6	985·4	984·7
10	985·2	984·3	983·3	982·3	981·4	980·7	980·4	980·8	981·7	982·4	983·2	984·3	985·1	986·1	987·1	987·8	988·4	989·2	989·8	990·8	991·6	992·3	992·6	992·8	985·8
11	993·0	993·2	993·2	993·5	993·8	994·1	994·5	994·9	994·8	995·0	995·0	995·2	995·3	995·3	995·3	995·1	995·3	995·4	995·4	995·4	995·4	995·3	995·2	995·0	994·7
12	994·7	994·5	994·3	994·1	994·1	993·8	993·6	993·2	992·8	992·3	992·0	991·3	992·0	990·3	989·7	989·2	989·1	988·9	988·4	988·6	988·7	988·7	988·5	988·4	991·4
13	988·3	987·9	987·6	987·2	987·2	987·2	987·1	987·0	986·6	986·4	986·0	985·7	985·3	985·0	984·5	984·0	983·7	983·6	983·5	983·5	983·4	993·0	982·7	982·0	985·5
14	981·7	981·2	980·4	979·7	979·7	979·2	978·9	978·5	978·0	977·3	976·9	976·2	975·8	975·4	975·1	974·8	974·6	974·1	973·8	973·8	973·4	973·1	972·6	972·2	976·7
15	971·6	971·2	970·6	969·9	969·6	969·6	969·4	969·4	969·3	969·2	969·1	969·1	969·2	969·1	969·0	969·0	968·8	969·0	969·1	969·3	969·3	969·1	968·8	968·5	969·5
16	968·3	967·8	967·5	967·2	966·5	966·3	966·2	966·2	966·1	966·3	966·1	965·8	965·3	965·0	964·7	964·4	964·6	964·5	964·4	964·3	964·2	963·9	963·7	963·6	965·6
17	963·5	963·6	963·8	964·3	965·0	965·8	966·6	967·8	968·7	969·3	970·3	971·1	971·7	972·4	972·9	973·3	973·8	974·6	974·9	975·6	975·9	976·2	976·4	976·7	970·3
18	976·7	977·0	977·1	977·3	977·5	978·0	978·4	978·6	978·9	979·3	979·5	979·6	979·7	979·7	979·6	979·6	979·5	979·6	979·8	980·0	980·0	979·8	979·7	979·0	978·9
19	978·4	977·6	976·7	975·8	975·5	977·1	974·5	973·8	972·7	972·1	970·9	969·8	968·3	967·3	966·9	965·8	965·2	964·2	963·6	963·3	962·5	962·3	962·0	961·4	969·9
20	960·7	960·3	960·0	960·0	960·0	960·3	960·5	961·0	961·2	960·7	961·2	961·2	961·2	961·5	961·4	961·8	962·3	963·5	964·3	965·2	966·1	966·9	967·5	968·4	**962·2**
21	968·9	969·2	969·8	970·1	970·9	971·7	972·5	973·3	974·1	974·9	975·7	976·7	977·6	977·8	978·2	978·9	979·4	979·9	980·4	981·0	981·7	981·8	982·1	982·2	975·9
22	982·4	982·4	982·1	982·3	982·5	982·5	982·7	982·8	982·9	982·7	982·5	982·4	982·3	982·2	982·1	981·8	981·7	981·8	981·6	981·7	981·7	981·7	981·7	981·7	982·2
23	981·7	981·7	981·6	981·6	981·6	981·8	982·0	982·0	982·0	982·1	982·1	982·2	982·2	982·1	982·0	982·0	981·9	981·9	982·1	982·4	982·6	982·8	983·0	983·0	982·1
24	982·9	982·9	982·7	982·3	982·2	982·2	982·2	982·2	982·4	982·1	981·9	981·5	981·5	981·6	981·9	982·0	982·0	982·3	982·6	983·2	983·6	983·9	984·1	984·5	982·5
25	984·5	984·6	984·6	985·2	985·6	986·3	986·5	986·9	987·3	988·0	988·5	989·0	989·5	989·7	989·9	990·3	990·8	991·3	992·3	993·2	993·8	994·0	994·6	994·9	989·0
26	995·3	995·7	996·1	996·4	997·1	997·7	998·1	998·4	998·9	999·4	999·4	999·6	999·8	999·8	999·8	999·9	999·9	999·9	000·2	000·8	001·0	001·1	001·1	001·0	998·9
27	000·8	000·8	000·7	000·7	001·7	001·0	001·0	001·0	001·0	000·8	000·7	000·3	000·0	999·9	999·5	999·2	998·9	998·9	999·2	999·6	999·6	999·6	999·6	999·5	000·2
28	999·4	999·5	999·4	999·3	999·3	999·4	999·3	999·3	999·4	999·4	999·1	998·9	998·7	998·6	997·9	997·6	997·5	997·5	997·6	997·9	998·0	998·0	997·8	997·8	998·6
29	997·6	997·5	997·3	997·1	997·1	997·1	997·3	997·3	997·3	997·1	996·8	996·5	996·4	996·1	995·9	995·9	995·8	995·9	996·1	996·4	996·4	996·1	996·4	996·4	996·7
30	996·5	996·4	996·2	995·9	995·7	995·7	995·9	995·8	995·6	995·5	995·4	995·2	994·8	994·8	994·5	994·1	993·7	994·0	994·2	994·2	994·1	993·9	993·8	993·7	995·0
31	993·4	993·0	992·6	992·5	992·5	992·5	992·4	992·3	992·0	991·7	991·1	990·9	990·5	990·0	989·5	989·1	989·0	988·9	989·1	989·1	989·2	989·2	988·9	988·7	990·9
Mean (Station level)	985·43	985·25	985·05	**984·94**	985·04	985·20	985·25	985·36	985·42	985·43	985·35	985·32	985·28	985·18	985·06	985·01	984·98	985·09	985·31	985·58	985·75	985·78	**985·79**	985·68	985·31
Mean (Sea level)	1013·94	1013·78	1013·59	1013·51	1013·63	1013·76	1013·70	1013·68	1013·62	1013·55	1013·38	1013·29	1013·20	1013·06	1012·94	**1012·91**	1012·95	1013·14	1013·49	1013·90	1014·15	1014·25	**1014·29**	1014·21	1013·57
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

175. Eskdalemuir : H_b (height of barometer cistern above M.S.L.) = 237·3 metres. **September, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Station Level. Day.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	988·3	987·8	987·4	987·1	986·9	986·5	986·2	985·9	985·4	985·1	984·2	983·6	983·2	982·7	982·0	981·4	980·4	979·5	979·2	978·5	977·3	977·0	976·3	976·0	983·1
2	974·6	974·1	973·9	973·2	973·1	973·3	973·3	973·2	973·2	973·1	973·0	972·9	972·7	972·0	972·3	972·2	972·2	972·3	972·7	972·9	973·2	973·5	973·7	973·6	**973·1**
3	973·7	973·6	973·6	973·6	973·7	973·7	973·7	973·7	973·9	974·0	974·1	974·1	974·4	974·2	974·1	974·2	974·2	974·2	974·4	974·7	974·5	974·5	974·4	974·2	974·0
4	974·2	973·8	973·7	973·2	973·2	973·2	973·0	973·0	973·1	973·0	973·0	972·9	972·7	972·9	973·0	973·0	973·3	974·1	974·4	975·1	975·1	975·1	975·1	975·5	973·7
5	975·7	975·9	976·3	976·9	977·4	978·2	978·6	979·3	980·0	980·6	980·9	981·3	982·1	982·3	983·2	983·6	984·6	985·1	985·8	986·4	986·9	987·3	987·6	988·0	981·6
6	988·2	988·2	988·2	998·4	988·7	988·9	989·1	989·6	989·6	990·0	990·0	990·0	990·0	989·9	989·9	989·5	989·7	989·9	990·1	990·1	990·1	990·7	990·6	990·9	989·5
7	991·0	991·0	990·8	990·9	991·2	991·5	992·0	992·4	992·7	992·9	992·9	992·9	992·9	992·8	992·6	992·6	992·5	992·5	992·8	992·8	992·8	992·8	992·9	992·9	992·3
8	992·8	992·5	992·3	992·2	992·0	992·0	991·6	991·4	991·2	991·1	990·9	990·5	990·0	989·8	989·5	989·0	989·0	989·0	989·0	988·9	988·8	988·8	988·8	989·0	990·5
9	988·9	988·9	988·9	988·9	988·8	988·8	989·3	989·6	989·8	990·0	989·8	989·8	989·7	989·5	989·9	989·9	990·2	990·5	991·0	991·1	991·3	991·6	991·7	991·7	989·9
10	991·6	991·5	991·3	991·2	991·5	991·8	992·1	992·7	992·8	993·1	993·1	993·4	993·4	993·4	993·4	993·9	993·9	993·9	994·1	994·7	994·6	994·6	994·6	994·5	993·1
11	994·4	994·1	994·0	993·6	993·6	993·3	993·3	993·0	992·7	992·4	991·9	991·4	991·0	990·5	989·9	989·0	988·7	988·4	988·4	988·5	988·3	988·2	987·5	987·2	991·1
12	987·0	987·0	986·3	985·9	985·9	986·2	986·2	986·9	987·4	987·8	988·1	988·6	989·4	989·8	990·7	991·6	992·6	993·3	994·0	995·3	996·0	996·4	996·9	997·2	990·6
13	997·2	997·5	997·6	997·9	998·0	998·0	998·0	998·0	997·7	997·6	997·6	997·5	997·5	997·3	997·3	997·3	997·3	997·3	997·4	997·7	997·8	997·8	997·9	997·6	997·6
14	997·6	997·6	997·4	997·4	997·1	997·1	997·4	997·5	997·4	997·5	997·6	997·6	997·6	997·4	997·4	997·5	997·5	997·5	997·5	997·7	997·7	997·9	998·1	998·0	997·5
15	998·0	998·0	997·9	998·0	998·2	998·2	998·7	999·3	999·5	999·5	999·7	000·2	000·5	000·4	000·3	000·3	000·2	000·1	000·2	000·5	000·5	000·4	000·1	000·0	999·5
16	000·1	000·0	999·4	999·1	999·0	999·0	998·8	998·5	998·3	997·8	997·2	996·8	996·3	995·5	994·7	994·2	993·6	992·8	992·4	992·0	991·4	990·9	990·6	989·8	996·0
17	989·5	988·8	988·2	988·1	988·0	988·0	988·1	988·1	988·5	988·6	988·8	989·1	989·3	989·6	990·0	990·3	990·6	991·0	991·5	992·1	992·2	992·4	992·5	992·7	989·8
18	993·1	993·1	993·2	993·2	993·5	993·8	994·2	994·5	994·9	994·9	995·0	995·0	995·0	994·9	994·9	995·0	995·2	995·9	996·5	996·9	996·8	997·2	997·4	997·5	995·0
19	997·6	997·6	997·5	997·7	997·9	998·4	998·8	999·4	000·3	001·6	002·0	002·4	002·7	002·9	003·2	003·4	003·7	004·1	004·6	005·0	005·4	005·7	005·7	005·8	001·6
20	005·9	006·1	006·1	005·7	006·0	006·2	006·4	006·5	006·6	006·5	006·0	006·0	006·0	005·6	005·3	005·2	005·0	004·9	004·7	005·0	005·1	005·3	005·6	005·6	005·7
21	005·6	005·7	005·7	005·6	005·5	005·6	006·2	006·2	006·6	006·3	006·3	006·3	006·2	005·5	005·5	005·3	005·5	005·7	005·8	005·8	005·7	006·1	006·1	005·6	005·9
22	005·6	005·4	005·2	005·0	005·0	005·0	004·4	004·4	004·3	004·1	003·2	003·1	002·4	002·0	001·9	001·7	001·5	001·4	001·3	001·3	001·3	001·4	001·4	001·6	003·2
23	001·5	001·4	001·3	001·2	001·4	001·6	001·8	002·1	002·3	002·4	002·5	002·5	002·3	002·3	002·2	002·2	002·3	002·8	003·1	003·6	003·6	003·6	003·7	003·6	002·3
24	003·6	003·6	003·6	003·7	004·0	004·3	004·7	005·1	005·4	005·6	005·6	005·6	005·7	005·7	005·6	005·6	005·9	006·6	007·4	007·7	008·1	008·1	008·2	008·2	005·6
25	008·3	008·3	008·2	008·1	008·3	008·7	008·9	009·3	009·4	009·5	009·4	009·3	009·1	008·7	008·7	008·4	008·5	008·8	008·9	009·2	009·0	009·2	009·3	009·2	**008·8**
26	009·2	009·0	008·9	008·9	008·8	009·0	009·1	009·3	009·4	009·3	009·1	008·7	008·4	008·0	007·6	007·1	007·1	007·1	007·0	007·0	006·8	006·6	005·8	005·5	008·1
27	005·3	005·0	004·4	004·0	003·4	003·1	003·1	002·6	002·2	001·7	001·1	000·4	999·9	999·3	998·8	998·4	997·8	997·4	997·2	997·0	996·8	996·3	995·6	995·1	000·5
28	994·6	994·4	993·9	993·7	993·6	993·7	993·9	994·2	994·4	994·2	994·1	994·0	993·9	993·6	993·4	993·2	993·1	993·1	993·3	993·3	993·2	993·1	992·9	992·7	993·7
29	992·3	992·0	991·5	991·1	991·1	990·8	990·5	990·4	990·1	989·5	989·0	988·4	987·9	987·5	987·1	986·6	986·2	985·8	985·4	985·0	984·5	983·8	983·3	982·7	988·2
30	982·3	981·6	980·9	980·2	979·5	979·1	978·9	978·7	978·4	977·9	977·6	977·2	976·9	976·4	976·1	975·6	975·6	975·9	976·4	976·6	976·5	976·7	976·7	976·9	978·0
Mean (Station level)	**993 ·59**	993 ·45	993 ·25	993 ·12	993 ·14	993 ·23	993 ·34	993 ·49	993 ·58	993 ·59	993 ·46	993 ·38	993 ·30	993 ·08	993 ·02	992 ·91	**992 ·93**	993 ·03	993 ·22	993 ·41	993 ·38	993 ·43	993 ·37	993 ·29	993 ·30
Mean (Sea level)	**1022 ·64**	1022 ·52	1022 ·34	1022 ·24	1022 ·27	1022 ·37	1022 ·37	1022 ·35	1022 ·25	1022 ·14	1021 ·93	1021 ·81	1021 ·72	1021 ·47	1021 ·46	**1021 ·38**	1021 ·45	1021 ·65	1021 ·97	1022 ·23	1022 ·23	1022 ·23	1022 ·30	1022 ·28	1022 ·08

176. Eskdalemuir : H_b = 237·3 metres. **October, 1931.**

Station Level. Day.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	977·2	977·4	977·7	978·1	978·4	978·9	978·7	978·7	978·6	978·5	978·3	977·7	977·6	977·2	977·0	976·5	976·1	976·1	976·1	976·1	976·3	976·2	976·0	975·8	977·3
2	975·8	975·7	975·3	975·0	974·1	973·7	973·6	974·8	976·3	977·3	978·0	979·0	979·3	980·0	981·1	981·9	982·1	982·5	983·0	983·6	983·8	984·5	984·6	984·8	979·0
3	985·3	986·3	986·6	987·7	988·3	990·3	991·4	991·8	992·9	993·5	994·0	994·6	995·2	995·0	995·2	995·6	995·7	996·1	996·1	996·2	995·4	994·7	994·2	993·5	992·5
4	992·9	992·0	990·6	989·8	989·7	989·6	990·1	990·3	990·7	990·7	990·6	990·6	990·5	990·4	990·1	990·0	989·7	989·4	989·4	989·6	989·5	989·0	988·5	988·3	990·2
5	987·8	987·3	987·1	986·3	986·3	986·2	986·0	986·6	987·0	986·9	986·7	987·0	987·0	987·1	987·0	987·1	987·2	987·3	987·2	986·9	986·7	986·2	985·7	985·3	986·8
6	984·5	983·7	982·5	981·7	981·0	980·0	979·5	978·9	978·2	977·5	976·5	975·8	975·1	974·2	973·4	972·8	972·1	971·7	971·0	970·5	970·2	970·3	970·7	970·5	976·2
7	970·8	970·7	970·7	970·6	970·6	970·9	970·8	971·0	971·3	971·2	971·2	971·2	971·2	971·1	971·3	971·7	972·1	973·0	974·0	974·3	974·9	975·1	975·8	976·1	**972·0**
8	976·4	976·8	977·4	977·6	978·2	979·0	979·5	980·3	980·9	981·7	981·9	982·5	982·7	983·1	983·3	983·4	983·5	984·1	984·2	984·2	984·0	983·7	983·5	983·3	981·3
9	982·7	982·3	981·6	980·9	980·3	980·2	979·9	980·0	980·0	979·7	979·5	979·5	979·6	979·7	979·8	980·1	980·3	980·9	981·5	982·6	983·6	984·7	985·7	986·2	981·2
10	986·8	987·7	988·5	989·2	989·6	990·4	991·5	992·4	992·8	993·2	993·3	993·3	993·7	993·6	993·6	993·3	993·2	993·5	993·6	993·7	993·5	993·5	993·3	993·0	991·9
11	993·1	993·0	992·6	993·0	993·0	993·0	992·9	993·3	993·4	993·5	993·4	993·3	993·3	993·3	993·2	993·2	993·2	993·5	993·6	993·6	993·5	993·6	993·4	992·8	993·2
12	992·7	991·9	991·2	990·6	989·9	989·3	988·5	988·4	987·9	987·5	986·1	985·5	984·9	984·2	983·5	983·2	982·9	983·4	983·8	984·4	985·0	985·9	986·8	987·2	987·0
13	988·1	988·5	989·3	989·9	990·7	991·6	992·6	993·6	994·2	994·9	995·3	995·6	995·7	996·0	996·4	996·6	997·1	998·0	998·6	999·0	999·2	999·7	000·3	000·7	994·8
14	001·2	001·3	002·0	002·4	003·0	003·6	004·3	005·0	005·5	006·1	006·2	006·5	006·6	006·6	006·6	006·5	006 6	007·0	007·3	007·4	007·7	007·7	007·8	007·7	005·4
15	007·8	007·8	007·5	007·5	007·6	007·6	008·0	008·2	008·4	008·3	008·0	007·8	007·2	007·1	006·9	006·7	006·7	006·9	006·9	006·9	006·8	006·7	006·5	006·4	**007·4**
16	006·3	006·0	005·9	005·6	005·3	005·2	005·5	005·5	005·5	005·5	005·4	005·0	004·3	004·0	003·5	003·4	003·3	003·7	003·9	003·9	003·9	003·9	003·9	003·9	004·7
17	003·5	003·1	002·8	002·9	002·8	002·7	003·0	003·2	003·4	003·4	003·0	002·8	002·7	002·7	002·9	003·3	003·5	003·6	004·1	004·4	004·7	004·8	005·0	004·9	003·4
18	004·8	004·6	004·5	004·3	004·4	004·5	004·7	005·0	005·0	005·1	005·1	005·0	004·5	004·3	003·9	003·7	003·5	003·4	003·0	003·0	002·9	002·5	001·8	001·5	004·0
19	001·1	000·4	000·0	999·4	998·8	998·6	998·1	997·9	997·7	997·4	996·5	995·8	994·8	994·4	993·5	992·8	992·3	991·7	991·1	990·6	990·2	989·3	988·1	987·1	995·2
20	986·8	986·6	986·2	986·3	987·6	988·5	989·7	990·0	989·5	990·1	991·5	991·9	992·9	993·0	993·7	994·4	994·8	995·4	995·8	995·4	995·8	996·4	996·4	996·7	991·7
21	997·0	997·0	997·1	997·1	997·0	996·7	996·6	996·6	996·6	997·2	996·4	996·3	995·8	995·3	994·9	994·8	994·7	994·9	994·8	994·8	994·6	994·2	993·9	993·3	995·8
22	993·1	992·5	991·8	991·1	990·6	990·2	989·7	989·1	988·5	987·8	987·1	986·7	985·8	985·0	984·4	983·7	983·1	982·9	982·1	981·7	981·3	980·9	980·3	979·7	986·5
23	979·3	979·1	978·3	977·9	977·3	976·7	976·3	975·9	975·8	975·2	974·3	973·5	972·8	972·6	972·1	971·2	970·8	970·9	970·3	970·2	970·1	970·0	969·9	970·0	974·0
24	970·1	969·8	970·1	970·2	970·7	971·0	971·7	972·6	973·9	974·3	975·5	976·5	977·6	978·0	978·4	979·2	979·5	980·4	981·3	981·4	981·8	982·4	983·1	983·2	976·1
25	983·6	984·1	984·5	985·2	985·5	985·7	986·4	987·4	987·8	987·3	988·7	988·8	988·7	989·1	989·5	990·3	991·1	991·8	992·3	993·0	993·7	993·9	994·3	994·6	988·8
26	994·8	994·7	994·8	994·9	995·1	995·2	995·6	996·1	996·2	996·2	996·1	995·9	995·7	995·3	995·4	995·4	995·4	995·6	995·6	995·8	995·3	995·1	995·1	994·8	995·4
27	994·2	993·6	993·1	992·5	991·9	991·8	991·7	991·4	990·9	990·2	990·2	989·6	988·7	988·2	987·8	986·9	986·5	986·4	986·0	985·2	984·7	983·7	983·6	984·1	989·1
28	983·6	982·5	981·7	981·7	981·5	981·2	982·0	982·9	983·6	983·9	984·6	985·0	985·5	985·8	986·1	986·6	987·2	988·0	988·4	988·9	989·4	989·6	989·6	989·6	985·3
29	989·9	989·9	989·9	989·9	989·9	989·9	990·1	990·1	990·2	990·1	989·8	988·8	987·7	986·4	985·2	983·8	982·6	980·8	980·4	980·8	981·2	981·8	982·0	983·2	986·6
30	983·9	985·1	986·0	987·5	988·6	989·7	990·3	991·7	992·7	993·9	994·5	995·0	995·2	995·4	996·1	996·7	997·3	998·2	998·3	998·6	999·0	998·9	999·1	998·8	993·4
31	998·2	997·8	997·2	997·1	997·0	996·7	996·6	996·4	996·3	996·1	995·8	995·3	994·5	994·2	993·5	993·2	993·4	993·7	994·0	994·0	994·1	994·1	994·1	994·2	995·4
Mean (Station level)	989 ·46	989 ·33	989 ·18	**989 ·16**	989 ·18	989 ·31	989 ·53	989 ·84	990 ·05	**990 ·14**	990 ·11	990 ·06	989 ·90	989 ·75	989 ·65	989 ·61	989 ·60	989 ·83	989 ·93	990 ·02	990 ·09	990 ·10	990 ·10	990 ·04	989 ·74
Mean (Sea level)	1018 ·55	1018 ·44	1018 ·29	**1018 ·28**	1018 ·30	1018 ·43	1018 ·66	1018 ·91	1018 ·99	1019 ·00	1018 ·85	1018 ·71	1018 ·53	1018 ·38	1018 ·32	1018 ·33	1018 ·42	1018 ·72	1018 ·88	1019 ·02	1019 ·12	1019 ·14	**1019 ·18**	1019 ·13	1018 ·68
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

177. Eskdalemuir : H_b (height of barometer cistern above M.S.L.) = 237·3 metres. **November, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day. (Station Level)	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	994·2	993·9	993·8	993·9	994·2	994·0	994·0	993·9	993·8	993·7	993·7	993·3	992·8	992·4	991·8	991·7	991·7	991·5	991·1	990·5	990·1	989·7	989·6	989·6	992·5
2	989·2	988·9	988·0	987·2	986·6	986·3	986·1	985·6	984·9	984·8	983·6	982·8	981·8	981·5	981·2	980·9	980·1	979·2	978·2	977·0	976·3	975·5	974·4	973·0	982·6
3	971·7	970·6	969·4	968·7	968·2	966·9	965·5	964·3	963·1	962·9	962·7	961·7	960·7	959·6	957·8	957·5	957·5	959·2	960·5	961·4	961·1	960·4	959·8	959·5	963·2
4	958·0	956·1	953·9	951·5	950·4	953·2	955·3	955·7	956·4	957·2	957·4	958·1	958·8	960·6	962·0	963·6	965·0	965·5	967·2	969·4	971·1	972·1	973·3	974·5	960·8
5	974·8	974·8	975·4	975·5	975·7	975·6	975·9	976·1	976·5	976·4	976·3	976·1	975·9	976·0	976·3	976·5	976·6	976·7	976·5	976·5	976·1	975·5	975·2	974·9	975·9
6	974·6	973·7	973·2	972·8	972·5	972·3	971·9	972·0	971·8	971·2	971·0	971·0	970·7	970·2	970·4	970·3	970·4	970·8	971·3	971·5	971·9	971·9	971·7	971·3	971·8
7	971·0	970·8	970·7	970·6	970·5	970·3	970·3	970·0	969·8	969·2	968·3	967·6	967·1	966·4	965·9	965·4	964·9	964·9	964·4	964·3	964·3	964·3	964·2	964·2	967·6
8	964·3	964·3	964·3	964·2	964·4	964·7	965·1	966·1	966·5	966·9	967·1	967·1	967·0	967·2	967·4	967·6	967·9	967·9	967·8	967·6	966·5	967·1	966·7	966·0	966·3
9	965·2	964·2	963·4	962·3	961·2	960·2	959·6	958·6	957·5	955·9	954·7	953·5	952·4	950·8	949·6	949·2	948·3	947·2	946·5	946·3	946·3	946·3	946·1	946·2	954·2
10	946·1	945·7	945·6	945·3	944·9	944·7	944·5	944·5	944·1	943·6	943·5	943·0	942·5	942·3	941·9	941·6	941·5	941·3	941·3	941·0	940·5	940·5	940·5	940·6	**943·1**
11	940·5	940·3	940·5	940·5	940·5	940·9	941·1	941·6	941·8	942·9	943·5	943·7	944·1	944·4	944·8	945·5	946·4	947·1	947·9	948·7	949·1	949·8	950·4	951·0	944·2
12	951·6	952·1	952·7	953·5	954·4	955·3	956·1	957·4	958·7	959·6	960·7	961·9	963·0	964·2	965·6	967·2	968·7	970·0	971·3	972·4	973·5	974·5	975·5	976·4	962·7
13	977·0	977·9	978·8	979·5	979·9	980·1	980·3	981·0	981·4	981·8	981·6	981·1	980·9	980·2	979·7	979·6	979·3	978·6	978·5	977·9	977·5	977·1	976·6	975·9	979·3
14	975·5	975·2	975·0	974·8	974·5	974·2	974·1	974·1	974·2	974·4	974·8	974·5	974·3	974·4	974·7	975·0	975·6	976·4	977·4	978·0	978·5	979·2	979·7	980·8	975·7
15	981·3	981·9	982·8	984·0	984·9	986·0	987·1	988·2	989·3	990·2	991·0	991·8	992·7	993·3	994·1	994·8	995·7	996·5	997·3	997·9	998·4	999·1	999·3	999·8	991·2
16	000·2	000·5	000·5	000·7	000·8	000·9	001·0	001·5	002·2	002·6	002·5	001·7	001·4	001·4	001·0	001·0	000·9	000·9	000·8	000·8	000·6	000·1	000·1	999·7	**001·0**
17	999·6	999·5	998·8	998·2	997·8	997·5	997·6	997·4	997·4	997·1	997·0	996·6	996·0	995·5	995·1	994·6	994·2	994·0	993·5	993·1	992·6	992·0	991·6	991·1	995·9
18	990·4	989·5	988·5	987·7	986·8	985·9	985·0	985·0	985·0	984·9	984·4	983·9	983·3	983·4	983·4	983·4	983·4	983·6	983·4	983·1	983·0	982·7	982·3	981·7	984·9
19	981·3	981·0	980·7	980·4	980·1	980·0	980·0	980·1	980·1	980·1	979·8	979·6	979·2	978·9	978·7	978·6	978·8	979·9	979·3	979·3	979·5	979·3	979·2	979·1	979·7
20	978·8	978·8	978·8	978·5	978·5	978·5	978·5	978·7	978·6	978·2	977·6	976·9	975·9	975·1	974·8	974·6	974·2	974·8	974·9	974·9	974·8	974·6	974·3	974·4	976·7
21	975·8	977·2	978·3	979·1	979·6	980·4	981·2	982·1	983·1	984·4	984·6	985·1	985·8	986·3	986·8	987·5	988·4	989·4	990·1	990·9	991·5	992·4	993·0	993·3	984·9
22	994·0	994·3	994·8	995·4	995·9	996·6	997·0	997·6	998·7	998·8	998·7	998·4	998·1	997·6	996·9	996·4	995·8	995·1	994·2	993·4	992·2	990·8	989·5	988·3	995·5
23	986·8	985·6	984·4	983·0	981·9	981·1	980·1	979·2	978·7	978·0	977·1	976·4	975·7	974·7	974·0	972·8	971·7	970·5	969·4	968·3	967·2	966·0	965·2	964·6	976·0
24	964·4	964·4	965·1	966·5	969·3	969·8	971·8	972·7	974·0	975·1	976·0	976·2	976·3	976·3	976·8	976·7	976·0	976·0	975·7	975·4	975·4	975·4	975·4	975·4	972·9
25	975·3	975·8	976·0	976·3	976·7	977·4	977·9	978·4	978·7	979·0	979·4	979·5	979·3	978·9	978·5	978·1	977·2	976·4	975·5	974·6	973·9	973·2	972·6	972·4	976·8
26	971·7	971·5	971·2	970·2	969·7	969·2	968·7	968·1	967·6	966·8	965·9	964·9	963·7	963·1	962·9	962·7	963·2	963·0	962·9	962·9	962·9	962·9	963·0	963·1	966·1
27	962·8	963·7	963·7	963·9	964·7	965·4	965·6	966·0	966·0	966·0	965·8	965·7	965·2	964·8	964·9	965·7	966·3	966·9	967·7	968·8	969·7	970·9	971·8	973·0	966·3
28	973·8	974·9	975·6	976·6	977·7	979·2	980·1	981·0	982·1	983·0	983·9	984·7	985·3	985·8	986·4	987·0	987·4	987·8	988·2	988·1	988·3	988·4	988·4	988·2	983·1
29	988·4	988·1	988·2	988·5	988·7	988·9	989·1	989·7	990·0	990·2	990·2	990·5	990·8	991·3	991·7	992·2	992·5	993·2	993·5	993·6	994·3	994·6	995·0	995·4	991·0
30	995·2	995·7	995·9	996·0	996·2	996·8	997·2	997·6	998·0	998·6	998·5	998·4	998·3	998·5	998·7	999·0	999·6	999·7	999·7	999·7	999·8	000·1	000·1	999·9	998·1
Mean (Station level)	975·78	975·70	975·60	**975·51**	975·57	975·74	975·92	976·14	976·33	**976·45**	976·38	976·19	975·97	975·84	975·79	975·89	975·97	976·10	976·20	976·24	976·23	976·21	976·15	976·11	976·00
Mean (Sea level)	1004·42	1004·36	1004·27	**1004·18**	1004·24	1004·43	1004·61	1004·84	1005·00	**1005·05**	1004·93	1004·69	1004·43	1004·30	1004·27	1004·42	1004·53	1004·69	1004·82	1004·87	1004·86	1004·85	1004·82	1004·79	1004·61

178. Eskdalemuir : H_b = 237·3 metres. **December, 1931.**

Day. (Station Level)	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	999·7	999·6	999·3	998·8	998·3	998·0	997·9	998·3	997·9	997·8	997·1	996·8	996·6	996·1	996·0	995·8	996·0	996·1	996·3	996·2	996·1	996·0	995·5	995·4	997·2
2	995·2	994·9	994·5	994·1	993·7	993·4	993·4	993·1	992·3	991·4	990·5	989·4	988·9	988·0	987·0	986·6	985·9	985·1	983·8	981·9	981·0	979·9	978·8	978·4	988·7
3	975·9	976·3	972·3	969·7	966·9	964·7	961·6	959·0	959·6	959·3	959·3	957·8	957·1	957·5	958·4	959·4	960·5	961·5	962·3	962·9	963·8	964·2	964·5	964·6	**963·6**
4	964·3	963·6	963·2	963·0	962·2	962·5	963·0	963·8	964·1	965·0	964·6	963·9	962·1	961·6	961·1	962·2	962·3	963·2	964·5	966·7	968·3	971·0	973·0	974·9	964·5
5	976·9	978·1	979·3	980·0	980·4	981·6	981·2	981·8	981·0	980·3	978·8	977·1	974·9	974·2	973·1	972·4	971·2	970·2	969·7	968·2	966·9	966·0	965·2	965·0	974·9
6	964·7	964·7	965·1	965·9	966·9	968·0	969·3	970·0	971·7	973·3	975·0	975·7	976·5	977·1	977·5	978·4	979·4	980·2	980·8	981·9	983·2	983·6	984·0	985·0	974·5
7	985·0	985·9	986·0	986·5	986·8	987·4	988·1	988·5	989·6	990·1	990·1	990·0	990·0	990·0	990·1	990·7	990·2	990·2	990·3	989·8	989·1	988·7	988·0	987·6	988·6
8	987·1	987·0	986·6	987·2	987·8	987·8	988·0	988·4	988·5	988·6	988·6	988·3	988·2	987·7	988·2	988·0	988·3	988·3	988·9	989·3	989·4	989·7	990·0	990·3	988·3
9	990·4	990·3	990·1	990·2	990·3	991·0	991·4	992·0	992·5	993·0	992·6	992·6	993·0	992·9	993·5	993·5	993·8	994·5	995·3	995·3	995·6	995·3	995·0	994·7	992·8
10	994·0	994·1	993·9	993·2	992·9	993·5	993·7	993·1	993·8	993·2	993·8	993·2	995·8	997·6	997·3	996·1	998·3	099·1	999·4	999·3	999·4	999·4	999·6	000·1	995·9
11	000·4	000·9	001·3	001·4	001·5	001·7	002·3	002·8	003·2	003·5	003·4	003·4	003·1	003·1	003·1	003·1	003·1	003·1	003·0	002·9	002·8	002·6	002·7	002·9	002·5
12	002·8	002·8	003·0	002·7	002·3	002·5	002·2	002·3	003·4	004·5	004·8	004·7	004·6	004·2	004·0	004·0	004·3	004·5	004·5	004·6	004·6	004·4	004·4	004·1	003·7
13	003·6	003·7	003·7	003·6	003·9	003·8	003·4	003·4	003·4	003·4	002·9	002·5	002·1	001·4	001·2	000·9	000·5	000·0	999·7	999·4	998·8	998·3	997·9	996·9	001·7
14	996·6	996·5	996·3	995·8	995·5	995·2	994·8	994·8	994·5	994·2	993·4	993·2	992·6	991·7	991·1	991·0	991·0	991·0	991·0	991·0	990·5	990·5	990·0	990·0	993·2
15	989·6	989·8	990·0	989·9	990·0	991·2	992·3	993·1	993·7	994·6	995·0	995·0	995·3	995·7	995·9	996·8	997·4	997·7	998·1	998·7	999·3	999·5	000·0	000·4	994·7
16	000·4	000·7	000·9	001·0	001·3	001·6	001·7	002·0	002·6	003·1	003·2	003·3	003·4	003·3	003·4	003·5	003·7	003·9	004·4	005·1	005·2	005·3	005·4	005·5	003·0
17	005·5	005·5	005·5	005·6	005·7	005·7	005·7	006·0	006·5	007·2	007·2	006·6	006·6	006·5	006·6	006·9	007·3	007·2	007·2	007·2	007·5	007·6	007·5	007·7	006·6
18	007·8	007·5	007·5	007·5	007·4	007·5	007·7	007·7	008·2	008·5	008·3	008·1	007·9	007·7	007·6	007·6	007·6	007·6	007·6	007·7	007·7	007·7	007·6	007·6	007·7
19	007·6	007·6	007·6	007·7	007·7	007·7	007·7	007·7	007·8	007·8	007·6	007·6	007·3	007·2	007·3	007·4	007·8	008·1	008·2	008·4	008·5	008·8	009·1	009·0	007·9
20	008·7	008·7	008·7	008·7	008·4	008·3	008·3	008·5	009·0	009·2	009·1	008·8	008·5	008·5	008·4	008·4	008·4	008·4	008·7	008·8	008·7	008·5	008·2	008·4	**008·6**
21	008·1	008·0	007·7	007·7	007·6	007·7	007·6	007·6	007·8	008·2	008·1	007·8	007·3	007·0	007·0	007·1	007·2	007·2	007·3	007·4	007·7	007·7	007·7	007·7	007·6
22	007·8	007·8	007·8	007·8	007·8	007·9	008·0	008·3	008·2	008·4	008·3	007·7	007·4	006·6	006·4	006·8	006·4	006·4	006·2	005·8	005·2	005·3	004·8	003·8	007·0
23	003·4	002·8	002·5	002·4	002·5	001·9	002·4	002·6	002·8	003·2	002·8	002·7	002·6	002·3	002·2	002·1	001·6	000·7	000·1	999·2	999·0	998·6	998·0	997·3	001·6
24	996·4	997·2	996·9	996·1	996·2	996·2	995·4	996·2	997·3	997·2	996·7	995·9	995·8	995·2	994·8	994·4	993·9	994·3	995·2	996·2	996·5	996·7	996·9	996·1	996·0
25	996·1	997·9	997·9	997·9	997·8	998·1	998·6	998·8	999·3	999·8	999·4	999·0	999·0	998·9	999·1	999·5	998·9	999·1	999·1	999·1	999·0	998·9	998·9	998·3	998·6
26	997·8	997·1	996·6	995·7	994·8	994·3	994·0	994·0	994·1	994·5	994·0	994·0	993·1	992·3	992·2	992·0	991·7	991·6	991·4	991·5	991·0	990·8	990·6	989·9	993·5
27	989·3	989·0	988·8	988·3	987·8	987·2	987·0	986·7	986·6	986·5	985·8	984·9	983·5	982·1	981·9	980·4	979·4	977·2	975·4	974·0	972·6	971·8	971·3	970·5	982·4
28	970·4	970·2	970·7	971·0	970·6	970·8	971·2	971·0	970·6	970·4	969·4	969·1	968·5	968·2	967·2	966·7	964·9	963·9	962·5	961·5	960·7	960·8	961·3	961·9	967·4
29	961·7	962·7	963·5	964·4	964·7	964·5	964·4	964·5	964·8	965·1	965·2	966·2	967·6	968·3	969·5	970·7	971·6	972·1	973·2	974·1	975·1	975·9	977·3	977·1	968·2
30	977·7	978·6	978·7	978·8	978·5	978·7	979·8	980·2	980·9	981·5	982·0	982·9	982·5	983·3	984·0	984·5	984·5	985·5	986·0	986·1	986·3	986·8	986·9	986·8	982·4
31	986·6	987·0	987·3	987·2	987·2	987·2	987·6	987·9	988·7	988·6	988·8	988·8	989·1	988·9	989·1	989·1	989·0	988·9	988·5	988·0	987·4	986·7	986·1	985·0	987·9
Mean (Station level)	991·98	992·15	992·04	991·93	991·79	991·86	991·93	992·07	992·40	**992·63**	992·45	992·16	991·97	991·78	991·75	991·81	991·81	991·83	991·89	991·88	991·84	991·84	991·81	**991·71**	991·98
Mean (Sea level)	1021·28	1021·46	1021·34	1021·24	1021·08	1021·13	1021·23	1021·36	1021·70	**1021·90**	1021·68	1021·37	1021·15	1020·95	**1020·95**	1021·05	1021·08	1021·10	1021·18	1021·16	1021·11	1021·11	1021·09	1020·99	1021·25
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

ANNUAL MEANS FROM HOURLY VALUES.

From readings in millibars at exact hours, Greenwich Mean Time.

179. Eskdalemuir : $H_b = 237{\cdot}3$ metres. **1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
Station Level.	984·22	984·12	983·99	**983·90**	983·92	984·04	984·16	984·34	984·47	**984·53**	984·47	984·38	984·25	984·11	984·04	984·02	984·03	984·13	984·28	984·41	984·47	984·50	984·46	984·40	984·23
Sea Level.	1013 ·18	1013 ·09	1012 ·97	1012 ·88	1012 ·90	1013 ·01	1013 ·07	1013 ·19	1013 ·23	1013 ·21	1013 ·09	1012 ·95	1012 ·78	1012 ·62	**1012 ·57**	1012 ·57	1012 ·65	1012 ·81	1013 ·03	1013 ·23	1013 ·34	**1013 ·40**	1013 ·37	1013 ·35	1013 ·02

PRESSURE AT STATION LEVEL: MONTHLY MEANS AND DIURNAL INEQUALITIES.

The departures from the mean of the day are adjusted for non-cyclic change.

180. Eskdalemuir : $H_b = 237{\cdot}3$ metres. **1931.**

Month.	Mean.	Hour. 1.	GMT. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
Jan.	980·23	−0·24	−0·37	−0·19	−0·50	**−0·58**	−0·54	−0·40	+0·06	+0·32	+0·47	**+0·50**	+0·43	+0·16	+0·05	+0·08	+0·12	+0·08	+0·10	+0·19	+0·20	+0·08	+0·04	−0·03	−0·05
Feb.	978·89	−0·00	−0·11	−0·26	**−0·40**	−0·32	−0·31	−0·17	+0·07	+0·29	+0·38	**+0·39**	+0·26	−0·01	−0·30	−0·29	−0·24	−0·16	−0·03	+0·14	+0·24	+0·28	+0·26	+0·18	+0·12
Mar.	986·41	+0·18	+0·06	−0·11	−0·23	−0·18	−0·13	−0·07	+0·10	+0·21	+0·29	+0·24	+0·16	+0·03	−0·22	−0·44	**−0·50**	−0·42	−0·25	−0·00	+0·17	+0·23	+0·30	**+0·31**	+0·27
April	982·34	+0·24	+0·18	+0·07	−0·04	+0·02	+0·23	+0·35	**+0·41**	+0·35	+0·27	+0·10	+0·02	−0·15	−0·33	−0·55	**−0·65**	−0·65	−0·47	−0·23	+0·05	+0·13	+0·19	+0·21	+0·25
May	981·72	+0·27	+0·13	−0·09	−0·18	−0·13	−0·02	+0·05	+0·13	+0·16	+0·07	+0·02	−0·13	−0·23	−0·31	−0·36	**−0·43**	−0·42	−0·27	−0·15	+0·19	+0·45	**+0·49**	+0·41	+0·35
June	986·17	−0·28	−0·42	**−0·50**	−0·46	−0·42	−0·17	−0·02	+0·11	+0·16	**−0·28**	+0·27	+0·26	+0·25	+0·19	+0·14	+0·05	+0·03	+0·03	+0·08	+0·05	+0·17	+0·20	+0·10	−0·09
July	978·24	+0·10	−0·07	−0·29	**−0·34**	−0·26	−0·17	−0·14	−0·06	−0·00	−0·02	−0·02	+0·02	+0·06	+0·01	+0·03	−0·00	−0·02	−0·05	+0·03	+0·11	+0·28	**+0·31**	+0·26	+0·22
Aug.	985·31	+0·18	−0·00	−0·21	−0·32	−0·24	−0·08	−0·04	+0·07	+0·12	+0·13	+0·04	+0·01	−0·03	−0·15	−0·26	−0·33	**−0·35**	−0·25	−0·04	+0·23	+0·39	+0·41	**+0·42**	+0·30
Sept.	**993·30**	+0·11	−0·01	−0·19	−0·31	−0·27	−0·17	−0·04	+0·13	+0·23	+0·25	+0·14	+0·08	+0·02	−0·19	−0·23	**−0·33**	−0·29	−0·17	+0·03	+0·24	+0·22	**+0·30**	+0·25	+0·19
Oct.	989·74	−0·02	−0·17	−0·35	**−0·39**	−0·39	−0·29	−0·09	+0·20	+0·39	**+0·44**	+0·40	+0·32	+0·14	−0·03	−0·15	−0·22	−0·26	−0·05	+0·03	+0·10	+0·14	+0·13	+0·10	+0·02
Nov.	**976·00**	−0·13	−0·22	−0·33	**−0·42**	−0·37	−0·21	−0·03	+0·17	+0·36	**+0·47**	+0·39	+0·19	−0·04	−0·18	−0·23	−0·14	−0·06	+0·06	+0·15	+0·18	+0·16	+0·14	+0·07	+0·02
Dec.	991·98	−0·22	−0·03	−0·12	−0·21	**−0·33**	−0·24	−0·15	+0·01	+0·36	**+0·61**	+0·45	+0·18	+0·01	−0·16	−0·17	−0·09	−0·07	−0·03	+0·05	+0·06	+0·04	+0·06	+0·05	−0·03
Year	984·23	+0·02	−0·09	−0·21	**−0·32**	−0·29	−0·17	−0·06	+0·12	+0·25	**+0·30**	+0·24	+0·15	+0·02	−0·13	−0·20	−0·23	−0·22	−0·12	+0·02	+0·15	+0·21	+0·24	+0·19	+0·13

ABSOLUTE EXTREMES OF PRESSURE AT STATION LEVEL FOR EACH DAY.

Maximum and minimum for the interval 0 h. to 24 h., Greenwich Mean Time.

181. Eskdalemuir : $H_b = 237{\cdot}3$ metres. **1931.**

Month.	Jan.		Feb.		Mar.		April		May		June	
Day.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	961·9	959·5	983·9	966·0	984·7	**963·3**	992·5	981·4	981·4	977·2	986·8	978·1
2	967·7	961·7	990·2	981·8	984·9	980·0	981·4	973·5	979·1	978·3	989·3	986·6
3	968·7	966·1	**998·7**	990·1	984·4	980·0	984·8	974·7	978·9	973·1	993·0	988·0
4	986·4	968·7	998·6	995·7	990·5	984·3	984·8	976·8	973·1	**968·2**	993·4	990·1
5	996·2	986·4	996·6	983·5	990·5	987·4	978·8	976·4	981·2	972·8	993·4	987·3
6	003·3	996·2	983·5	981·7	989·0	985·5	981·0	977·4	986·3	981·0	987·3	978·8
7	**005·4**	003·1	982·7	979·1	987·5	983·6	981·0	978·5	986·4	984·3	978·8	975·5
8	004·4	995·2	979·1	971·6	987·8	985·0	983·6	980·2	996·0	986·2	979·3	974·8
9	998·4	996·8	979·3	970·0	985·0	979·0	994·3	983·6	**996·2**	992·2	979·0	975·5
10	997·3	992·8	980·8	966·8	979·1	977·0	**996·4**	993·8	992·2	982·3	977·6	973·6
11	992·8	978·7	981·0	954·4	982·7	979·0	993·8	984·7	986·0	978·6	986·1	974·4
12	979·8	973·7	966·0	**953·7**	980·7	977·1	989·2	984·5	988·3	986·0	991·8	985·4
13	992·6	979·8	981·2	963·1	977·1	967·0	994·6	989·2	986·5	974·9	992·8	984·6
14	992·2	982·1	986·2	977·5	979·2	968·3	994·4	990·1	975·1	972·4	984·5	**967·2**
15	983·5	979·0	977·5	963·1	985·1	979·2	993·4	986·2	975·6	974·0	981·9	967·4
16	979·5	961·4	964·8	957·5	987·4	985·0	993·1	978·2	975·3	973·8	980·8	976·8
17	980·5	963·1	987·2	964·7	987·3	984·6	978·0	972·9	973·9	972·0	980·4	976·4
18	983·3	977·6	991·6	987·1	984·9	980·5	989·2	977·9	980·2	973·0	976·9	975·3
19	983·2	975·1	988·0	977·2	982·5	980·1	992·5	989·1	990·5	980·1	987·6	975·3
20	990·5	981·4	977·2	966·3	980·8	976·9	992·2	988·9	990·9	988·4	991·6	989·1
21	990·5	979·4	981·5	968·9	979·9	975·1	989·8	982·0	988·5	985·9	989·1	986·2
22	979·4	964·5	986·0	981·5	984·6	979·7	982·0	976·4	986·0	982·7	990·1	982·8
23	964·5	**943·2**	994·9	986·0	999·1	984·6	976·4	970·2	982·8	980·3	990·7	986·1
24	965·5	945·5	995·3	986·7	006·7	999·1	970·4	965·3	981·6	975·8	999·1	990·7
25	978·4	965·4	987·3	978·6	**006·9**	004·6	965·8	**959·4**	988·8	981·1	**000·2**	998·9
26	992·7	978·3	985·1	977·4	006·1	000·8	972·7	**959·4**	992·4	988·5	999·5	996·1
27	992·9	973·1	985·6	968·6	000·8	994·1	982·0	972·7	992·3	986·5	996·1	994·3
28	974·6	969·4	968·6	958·8	000·5	994·7	988·6	982·0	986·7	976·1	994·6	992·3
29	977·3	967·7			000·4	995·2	989·9	988·4	980·2	977·0	996·3	991·8
30	990·1	977·3			995·2	993·5	988·4	981·4	979·8	977·5	996·7	992·2
31	989·6	965·8			995·1	992·0			979·4	978·4		
Mean	985·26	974·45	984·23	973·48	989·24	983·75	985·83	979·17	984·25	979·31	988·82	983·05

Month.	July		Aug.		Sept.		Oct.		Nov.		Dec.	
Day.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	**992·2**	980·6	989·3	984·5	988·7	976·0	979·0	975·8	994·3	989·3	999·9	995·4
2	980·6	974·4	999·1	989·3	976·0	**971·7**	984·8	973·3	989·6	973·0	995·4	978·4
3	977·3	971·0	**002·2**	999·1	974·7	973·5	996·3	984·8	973·0	957·3	978·4	**957·0**
4	978·1	969·3	002·0	998·6	975·5	972·7	993·5	988·3	974·5	950·3	974·9	961·1
5	981·2	977·8	998·6	987·2	988·0	975·5	988·3	985·3	976·7	974·4	981·9	965·0
6	981·2	977·9	987·2	981·8	990·9	988·0	985·3	970·1	974·9	970·2	985·0	964·5
7	979·2	978·3	983·0	978·1	993·0	990·8	976·2	970·3	971·3	964·1	990·7	984·7
8	978·3	975·9	982·1	976·9	992·9	988·6	984·3	976·1	968·0	964·1	990·5	986·6
9	979·7	975·8	986·2	981·9	991·8	988·7	986·2	979·3	966·0	946·0	995·6	990·1
10	984·3	979·4	992·8	980·4	994·7	991·2	993·8	986·2	946·2	**940·3**	000·1	992·6
11	985·7	983·4	995·6	992·7	994·5	987·2	993·7	992·6	951·0	**940·3**	003·6	000·0
12	983·4	974·1	995·0	988·3	997·2	985·7	992·8	982·9	976·4	951·0	005·0	001·9
13	975·4	973·8	988·4	982·0	998·1	997·1	000·7	987·2	981·9	975·9	004·1	996·9
14	975·4	972·3	982·0	972·2	998·1	997·0	007·9	000·6	980·8	974·0	997·0	989·6
15	979·7	973·1	972·2	968·5	000·6	997·8	**008·5**	006·4	999·8	980·8	000·4	989·4
16	983·4	979·7	968·5	963·6	000·1	989·8	006·4	003·3	**002·6**	999·7	005·6	000·3
17	981·2	971·7	976·7	973·5	992·7	987·8	005·0	002·5	999·7	991·1	007·7	005·4
18	978·2	971·7	980·1	976·6	997·5	992·7	005·2	001·5	991·1	981·7	008·5	007·4
19	980·7	975·7	979·0	961·4	005·9	997·5	001·5	987·1	981·7	978·4	009·1	007·2
20	988·1	980·7	968·4	**959·9**	006·7	004·7	996·7	986·0	979·1	974·2	**009·2**	008·2
21	989·2	985·2	982·2	968·4	006·6	005·3	997·2	993·3	993·3	974·4	008·6	006·9
22	985·2	978·7	982·9	981·5	005·7	001·2	993·3	979·7	999·0	988·3	008·4	003·8
23	983·3	978·7	983·1	981·5	003·7	001·1	979·7	969·9	988·3	964·6	003·8	997·3
24	982·9	974·3	984·5	981·4	008·3	003·5	983·2	**969·8**	976·8	964·1	997·5	993·8
25	974·3	969·7	995·0	984·4	**009·6**	008·1	994·6	983·2	979·6	972·4	999·8	995·9
26	970·4	968·9	001·2	994·9	009·5	005·5	996·3	994·6	972·4	962·7	998·3	989·9
27	971·9	**968·3**	001·2	998·8	005·5	995·1	994·8	983·6	973·0	962·1	989·9	970·5
28	984·6	971·8	999·5	997·3	995·1	992·7	989·7	981·1	988·5	973·0	971·3	960·7
29	985·1	976·4	997·8	995·8	992·7	982·7	990·2	980·3	995·4	987·9	977·3	961·7
30	981·1	976·0	996·5	993·7	982·7	975·4	999·1	983·2	000·2	995·1	986·9	977·1
31	984·6	980·6	993·7	988·7			998·8	993·2			989·2	985·0
Mean	981·16	975·65	988·58	982·67	995·90	990·82	993·65	985·53	981·50	970·69	995·92	987·88

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

182. Eskdalemuir : Louvred Hut : h_t (height of thermometer bulb above ground) = 0·9 metres. **January, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	66·1	66·1	65·9	65·0	65·0	64·7	64·9	64·8	65·3	66·7	68·0	70·0	71·7	72·3	72·7	72·6	72·0	71·5	70·2	70·1	70·2	70·2	70·5	70·9	68·5
2	73·1	73·8	73·7	73·4	74·0	74·3	74·2	73·0	72·4	74·8	75·1	76·0	75·9	76·8	76·1	76·0	75·9	74·9	73·8	72·7	72·8	71·9	71·2	71·5	74·0
3	71·2	71·9	71·2	72·3	72·1	72·3	72·3	72·3	72·3	72·7	72·9	73·9	74·1	73·7	73·8	73·7	73·6	73·5	73·6	73·6	73·6	73·6	73·3	73·3	72·9
4	73·3	73·3	73·3	73·7	74·0	73·8	73·0	73·5	73·4	74·4	74·7	75·4	75·9	75·8	75·8	75·9	75·9	75·1	74·7	73·1	71·1	70·6	69·3	68·6	73·7
5	67·5	68·0	67·4	67·1	66·7	67·0	67·0	67·4	67·4	69·3	70·7	72·1	73·0	74·1	74·5	74·1	73·8	73·5	73·2	72·5	71·5	69·0	70·1	68·9	70·2
6	67·7	67·2	66·9	66·9	66·3	66·0	65·9	65·7	66·0	67·7	69·4	71·6	73·2	73·6	73·3	69·9	68·3	68·1	67·1	66·3	65·8	65·1	65·5	65·2	67·9
7	64 7	64·3	64·7	64·0	64·1	64·2	65·0	66·0	66·4	67·9	69·7	71·2	71·3	72·1	71·8	71·2	70·0	68·9	68·9	68·9	68·7	68·6	69·2	69·5	**67·9**
8	69·6	69·8	70·1	70·4	70·7	70·9	71·3	71·2	71·5	71·9	72·9	74·0	74·3	74·3	74·9	75·0	75·6	75·2	74·5	74·8	74·9	74·6	74·2	73·0	72·8
9	72·1	72·3	70·8	72·1	72·9	71·8	72·9	71·4	73·0	74·5	75·5	75·8	76·0	76·3	76·1	75·3	74·9	75·1	75·0	75·5	75·5	75·8	75·6	76·0	74·2
10	76·3	76·4	76·6	76·7	76·7	76·6	75·9	77·1	76·8	76·3	77·3	77·7	79·8	79·1	79·0	78·9	77·9	77·8	77·8	78·9	78·3	78·2	77·7	77·8	77·5
11	78·2	78·1	78·8	79·5	78·9	78·3	78·2	78·7	78·9	79·3	79·8	80·0	80·3	80·7	80·9	80·6	79·8	78·9	78·5	77·7	77·0	76·7	75·8	76·1	78·8
12	75·7	75·2	74·6	74·9	74·1	74·3	73·5	73·6	73·7	74·1	74·1	76·0	76·8	76·2	75·8	75·3	75·0	74·9	74·9	74·4	75·0	74·7	75·0	74·3	74·9
13	74·6	74·8	74·0	73·9	73·2	72·6	72·3	72·0	71·7	72·0	72·3	72·3	72·3	72·3	71·9	71·0	70·1	70·0	69·2	69·3	69·0	69·1	68·4	67·7	71·6
14	68·0	68·1	67·6	67·7	67·4	66·7	66·2	67·0	67·9	69·4	70·2	70·7	71·2	71·8	72·6	73·1	74·0	75·7	76·8	76·6	76·7	77·9	78·2	78·3	71·4
15	78·7	79·0	79·7	79·9	80·0	79·8	79·3	79·3	79·6	79·9	80·3	80·8	80·5	81·0	81·3	81·2	81·0	80·6	80·4	80·2	80·3	80·1	80·4	80·1	80·1
16	81·0	81·2	81·6	81·3	81·7	81·8	81·7	81·8	82·0	82·5	82·4	82·2	82·2	82·3	82·2	82·2	81·9	79·8	77·9	75·9	75·8	75·7	75·7	76·1	**80·5**
17	75·8	76·4	76·7	75·8	75·4	75·3	75·7	75·1	75·1	75·9	76·0	76·7	76·8	76·7	75·9	75·1	74·6	74·3	74·1	74·0	74·0	74·2	74·2	74·2	75·4
18	74·1	74·3	74·9	74·7	74·7	74·2	73·8	74·0	74·3	74·6	75·0	74·7	74·3	74·2	74·1	73·5	73·2	73·2	73·2	73·2	73·2	73·2	73·2	73·2	74·0
19	73·5	77·0	80·3	81·0	81·2	81·1	80·8	80·4	79·8	79·6	79·9	79·9	80·6	79·9	78·9	78·0	76·7	75·3	74·6	73·3	73·1	73·1	73·7	73·7	77·7
20	74·0	74·7	75·0	75·3	75·4	75·4	76·0	76·9	78·7	79·3	79·3	79·4	80·0	79·8	80·2	78·7	76·9	77·7	76·3	75·0	74·8	74·1	73·8	74·0	76·7
21	74·0	74·3	74·8	75·3	75·3	75·2	75·5	74·9	74·9	75·2	75·9	76·5	76·8	77·0	77·1	77·0	76·9	77·0	77·1	77·2	77·2	77·3	77·3	77·5	76·1
22	77·6	77·6	77·9	78·0	76·9	75·1	74·9	73·9	74·0	74·5	75·0	75·4	76·1	76·4	76·9	76·7	76·6	76·0	76·2	76·2	76·0	75·7	75·7	76·4	76·1
23	78·4	79·1	79·8	79·7	79·6	79·5	78·9	78·6	78·5	78·5	78·7	79·2	78·8	78·9	78·5	77·8	77·5	77·8	77·3	76·8	76·7	75·8	76·1	76·0	78·2
24	75·8	76·0	76·3	75·3	75·6	74·3	74·4	74·8	75·1	76·3	76·3	76·7	76·5	76·8	77·4	76·4	76·0	75·0	74·9	74·8	74·8	74·8	74·2	74·7	75·6
25	74·7	74·4	74·2	74·1	74·3	74·1	74·3	74·4	74·4	74·0	75 0	74·2	74·9	75·0	75·1	74·1	73·8	73·7	73·0	73·1	73·1	73·2	72·7	73·5	74·1
26	73·0	72·9	73·0	73·2	72·4	73·9	74·4	74·9	74·7	75·1	75·4	75·9	76·6	75·8	75·6	75·5	74·9	74·7	73·8	73·1	73·0	72·3	74·4	73·1	74·2
27	74·0	74·0	72·7	70·1	69·1	67·9	67·0	66·3	66·9	69·6	71·9	74·0	75·0	75·3	74·0	72·9	72·7	73·3	73·9	73·9	74·0	74·7	75·0	75·2	72·2
28	75·2	75·6	75·1	75·7	74·5	74·9	75·2	75·2	75·4	75·7	75·7	76·3	76·0	76·0	76·1	75·5	75·2	74·4	73·7	73·6	73·4	73·7	73·7	73·7	75·0
29	73·7	73·5	73·5	73·3	73·2	73·2	73·2	73·3	73·4	73·9	74·1	74·3	74·6	74·9	74·5	74·2	73·9	73·7	73·7	73·8	73·9	73·2	72·9	72·9	73·7
30	72·2	71·9	71·5	71·2	71·1	70·8	70·2	71·0	70·5	72·2	72·8	73·7	74·0	74·0	73·6	71·2	69·6	69·0	68·8	68·0	67·2	67·3	67·8	68·1	70·8
31	69·1	70·0	70·2	71·0	71·8	72·4	72·5	72·6	72·6	72·3	72·1	71·8	71·9	72·2	72·3	72·3	72·6	72·9	73·1	73·4	73·8	74·0	74·1	74·2	72·2
Mean ...	73·32	73·59	73·64	73·63	73·49	73·30	**73·24**	73·26	73·44	74·20	74·79	75·43	75·85	**75·98**	75·90	75·32	74·86	74·56	74·20	73·87	73·69	73·50	73·51	73·47	74·16

183. Eskdalemuir : Louvred Hut : h_t = 0·9 metres. **February, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	74·2	74·1	74·0	74·1	74·0	74·0	74·0	74·0	75·0	75·3	75·7	75·8	75·6	75·8	76·2	75·3	74·7	74·1	73·2	72·1	72·5	71·9	70·8	71·8	74·1
2	71·9	73·4	73·5	73·9	73·9	73·9	74·3	74·2	74·8	75·3	75·2	75·3	76·0	76·9	76·5	76·1	75·9	76·1	76·6	75·9	74·8	74·6	74·5	74·4	74·9
3	74·9	74·9	75·0	75·1	75·0	74·9	74·2	74·7	74·7	75·0	75·0	75·0	75·6	75·3	74·8	74·3	73·9	73·4	73·1	73·1	73·4	73·4	73·3	73·2	74·4
4	72·9	72·9	72·9	72·9	72·9	72·9	72·8	72·6	72·7	72·8	72·8	72·7	72·4	72·4	72·4	72·3	72·2	72·2	72·3	72·3	72·3	72·4	72·5	71·8	72·6
5	71·8	71·9	72·0	72·8	72·8	72·9	72·9	72·9	72·9	73·0	73·3	73·9	74·1	74·7	74·8	74·6	74·3	74·1	73·9	73·9	74·0	74·0	73·9	73·9	73·4
6	74·0	74·0	74·0	74·1	74·2	74·2	74·0	73·9	73·7	73·6	73·6	73·5	73·5	73·5	73·4	73·3	73·4	73·8	73·9	73·8	73·8	73·7	73·6	73·5	73·8
7	73·2	72·7	72·2	71·5	71·2	71·2	71·3	71·8	73·0	73·8	74·5	75·1	75·3	76·0	76·2	76·6	76·3	76·8	76·5	76·5	76·2	76·3	76·8	76·9	74·4
8	77·0	77·3	77·3	77·1	76·7	76·3	76·2	75·9	75·7	75·6	75·8	76·9	77·5	78·0	78·6	78·7	79·0	78·9	78·8	79·0	79·1	79·0	79·0	78·9	77·6
9	78·9	78·9	79·0	78·9	79·0	79·0	79·0	79·7	79·9	80·6	80·3	80·4	80·2	79·9	79·9	78·9	79·0	77·6	77·7	78·3	78·7	78·8	78·9	79·3	79·2
10	80·0	80·0	76·3	75·4	76·0	76·0	75·0	75·0	75·3	75·5	75·3	75·9	76·1	75·8	75·5	75·9	75·4	75·0	74·7	74·5	74·5	75·0	74·4	75·2	75·8
11	74·9	74·9	74·9	74·9	74·9	75·0	74·9	75·2	75·8	75·8	76·0	76·0	76·0	77·4	77·1	76·9	76·1	74·9	74·1	73·9	73·7	73·7	74·0	73·8	75·2
12	74·8	75·1	74·9	75·1	74·8	74·8	75·0	75·1	75·6	75·8	76·1	76·6	76·2	76·6	76·3	75·7	74·7	73·9	73·3	73·7	73·2	73·1	72·8	72·4	74·8
13	72·9	72·0	72·3	72·9	72·9	72·2	71·9	72·4	73·7	74·0	74·5	75·1	75·6	75·2	74·8	74·7	73·6	73·8	73·7	73·3	73·2	73·0	73·1	72·9	73·5
14	72·5	71·8	72·3	72·4	72·2	72·9	72·1	73·9	73·4	74·8	75·4	76·3	76·7	76·4	75·8	75·5	74·6	73·9	73·8	73·7	73·4	73·7	74·3	74·8	74·0
15	74·9	75·1	76·2	76·0	76·1	76·5	76·3	76·2	75·8	76·2	77·2	77·3	77·3	76·3	76·7	76·2	75·2	75·1	75·2	74·8	73·9	73·9	73·7	73·9	75·7
16	73·7	73·3	73·0	72·9	71·9	71·8	71·4	71·1	71·2	71·9	72·3	73·0	74·3	74·9	74·3	74·5	73·9	73·6	73·1	72·0	71·1	71·6	72·2	72·8	72·8
17	73·1	73·1	72·9	73·1	73·3	73·4	72·9	73·3	74·0	74·2	74·3	74·6	74·7	74·9	74·7	74·8	74·3	74·1	73·9	73·9	73·9	73·7	74·3	74·2	73·9
18	74·2	74·6	74·4	73·6	74·0	73·7	73·6	73·1	73·5	73·6	73·7	74·1	74·3	74·7	74·3	74·2	73·9	73·7	73·4	73·3	73·3	73·2	72·9	72·7	73·8
19	72·3	72·1	71·9	71·8	71·2	71·7	72·0	71·7	72·2	73·0	73·1	73·3	73·8	74·0	74·2	74·3	74·8	75·0	75·2	75·1	75·0	75·3	75·9	76·7	73·5
20	76·4	76·0	77·3	77·7	78·1	77·1	78·1	78·4	78·8	79·0	79·2	80·0	78·2	77·8	77·0	77·8	77·0	76·0	75·3	74·8	74·5	74·4	74·1	73·8	77·0
21	73·7	73·8	74·1	73·7	73·7	73·6	73·1	73·2	73·9	74·2	72·8	73·3	73·9	73·0	73·9	73·3	72·2	72·0	71·8	72·2	72·3	72·6	71·7	72·1	73·1
22	72·3	71·8	72·7	72·8	72·9	73·1	72·1	72·8	73·2	73·0	74·4	74·9	75·8	76·0	75·8	75·8	75·9	75·4	74·9	74·9	74·6	74·0	73·2	73·2	74·0
23	73·1	72·0	71·4	71·9	71·9	71·7	71·7	72·4	73·5	73·9	75·2	75·2	76·4	76·7	77·7	76·7	75·9	74·9	74·2	73·2	72·9	72·3	73·2	71·4	73·8
24	70·8	69·3	68·7	68·3	67·5	67·6	68·2	69·1	70·6	73·1	74·1	75·9	75·8	75·8	76·1	76·3	76·7	77·5	78·7	79·5	80·3	81·1	81·8	81·3	74·1
25	81·1	80·9	80·9	80·8	80·8	81·7	81·5	81·3	81·1	81·3	81·8	82·2	82·1	82·6	82·8	83·0	82·9	82·7	82·6	82·6	82·2	81·9	81·9	81·8	**81·8**
26	81·3	80·9	79·0	78·3	77·9	77·3	76·6	76·2	75·3	75·7	75·5	75·5	76·0	76·5	76·7	76·0	74·9	74·0	74·1	74·2	74·1	74·1	73·9	73·9	76·3
27	73·1	74·3	73·9	72·7	73·1	72·9	72·8	73·0	73·6	73·8	74·1	74·2	75·7	76·0	76·1	75·9	75·1	74·9	74·1	73·7	73·9	73·4	73·2	73·2	74·0
28	73·2	71·7	70·7	70·5	70·0	70·2	68·8	68·9	70·3	71·3	73·9	72·7	73·3	73·7	73·8	73·4	71·8	71·7	71·3	71·4	70·4	69·1	70·3	70·5	**71·4**
Mean ...	74·54	74·39	74·20	74·11	74·03	74·02	**73·81**	74·00	74·40	74·83	75·18	75·53	75·80	**75·96**	75·95	75·75	75·27	74·97	74·76	74·63	74·47	74·40	74·44	74·44	74·75
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

Note.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

184. Eskdalemuir : Louvred Hut : h_t (height of thermometer bulb above ground) = 0·9 metres. **March, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	69·8	72·3	71·8	71·4	71·4	71·3	71·2	70·4	70·2	72·1	71·9	73·0	73·3	74·1	73·5	73·7	72·9	72·2	71·6	70·7	70·4	70·1	69·5	68·8	71·6
2	66·7	64·0	63·9	62·9	62·0	61·5	61·1	62·8	66·7	71·3	72·9	73·5	74·5	74·2	75·2	74·6	74·6	72·9	72·2	72·4	72·7	72·0	71·6	71·3	69·4
3	71·1	70·9	71·2	71·4	71·5	71·3	71·2	71·3	71·9	72·4	72·9	73·2	73·8	73·7	73·3	73·1	72·4	72·3	72·2	72·0	71·8	72·0	72·0	72·2	72·1
4	72·1	72·9	72·4	72·5	72·3	72·4	72·0	72·7	74·2	74·9	74·9	75·2	75·7	75·1	74·9	74·8	74·3	73·5	72·8	72·7	72·5	72·3	72·1	71·8	73·4
5	71·8	71·9	71·8	71·3	71·5	71·8	72·0	72·1	73·3	73·8	74·7	75·2	75·1	75·5	75·5	75·2	74·3	73·6	73·3	73·2	73·1	72·9	72·2	71·9	73·2
6	71·2	71·9	71·7	71·7	71·6	72·3	71·4	71·9	72·7	72·8	73·9	72·8	72·3	71·9	72·8	71·3	70·0	69·0	68·0	66·9	66·1	67·7	66·1	66·2	70·7
7	66·2	67·1	68·0	65·9	66·9	67·3	67·7	68·6	69·2	69·9	70·6	71·2	70·7	70·5	71·0	69·4	69·3	69·0	69·0	68·7	69·1	70·1	70·3	70·8	**68·9**
8	70·5	70·8	70·7	70·6	70·3	70·3	70·1	70·8	71·9	72·3	72·1	72·8	72·4	72·9	72·7	72·3	71·8	71·2	71·1	71·0	70·3	70·7	70·6	70·4	71·3
9	69·1	69·2	69·9	69·1	68·9	68·8	68·2	69·2	70·3	71·1	72·1	72·3	72·0	72·3	71·1	71·1	70·0	69·3	68·9	69·1	69·8	70·1	70·1	70·5	70·1
10	70·4	70·1	70·0	69·8	69·7	69·4	68·8	70·0	71·8	72·5	73·3	72·9	73·5	73·9	74·5	74·5	74·1	74·0	74·3	74·3	74·7	74·7	74·7	74·2	72·4
11	74·3	74·0	73·9	74·0	73·6	73·1	73·1	73·9	73·9	74·2	75·3	76·2	76·4	75·7	75·2	75·2	75·1	73·9	73·5	72·7	71·8	71·0	70·5	69·8	73·9
12	70·9	70·8	70·4	70·3	70·1	70·3	70·0	72·9	74·1	74·8	75·1	75·7	76·5	76·9	76·2	75·3	74·4	73·7	71·7	69·9	68·5	67·8	68·2	68·9	72·2
13	69·6	70·1	71·2	72·9	73·0	72·8	74·0	74·8	75·4	75·4	75·8	76·0	75·3	76·0	75·9	75·3	75·0	74·5	73·9	74·0	73·4	73·2	73·3	73·4	73·8
14	73·4	73·4	73·3	73·0	72·8	72·8	72·8	73·1	73·4	73·9	74·5	74·9	75·2	75·5	75·3	75·4	75·4	74·0	72·4	72·9	73·4	73·1	73·1	72·8	73·8
15	72·7	72·2	72·5	72·9	73·0	73·2	73·8	73·6	74·0	74·3	74·7	75·7	76·8	77·7	78·0	78·3	78·2	76·8	75·1	75·3	74·3	74·9	74·0	74·1	74·8
16	73·5	73·0	72·6	73·0	74·0	74·3	74·3	74·7	75·0	76·1	77·7	79·1	79·5	78·3	77·7	77·7	76·9	75·2	74·9	74·3	73·9	73·2	73·2	73·1	75·2
17	72·8	72·6	72·5	72·8	71·9	72·0	71·9	73·7	75·0	75·7	76·9	78·0	78·1	78·9	78·8	78·7	76·9	75·1	73·3	72·4	72·2	71·6	71·4	70·7	74·4
18	70·5	70·0	69·9	69·4	69·9	70·1	70·2	72·2	74·2	77·0	79·3	81·2	82·0	82·4	82·9	82·7	81·7	79·2	75·0	75·1	75·8	75·7	75·0	74·4	75·6
19	73·9	73·8	74·0	74·3	75·1	75·9	75·6	76·1	79·0	81·5	84·2	85·7	86·9	87·6	87·1	86·5	85·3	83·4	82·1	82·8	82·7	82·3	82·3	82·0	80·7
20	81·1	80·0	80·1	80·3	80·9	80·8	80·1	81·1	82·9	84·9	86·0	87·1	87·3	89·0	88·8	88·9	87·1	86·3	84·0	83·2	80·3	81·7	83·3	83·9	**83·7**
21	83·7	82·9	82·2	82·0	81·3	81·6	81·3	81·7	82·0	82·9	82·9	83·0	81·7	81·4	80·9	81·1	80·3	79·8	79·9	79·7	79·5	79·3	79·0	78·8	81·3
22	78·5	78·4	78·4	78·1	78·0	78·1	78·2	78·8	79·0	79·9	80·2	80·1	80·0	79·6	79·9	79·8	79·3	79·2	78·8	78·2	78·1	77·9	77·8	77·9	78·9
23	77·9	77·6	77·9	77·8	76·8	76·3	76·5	77·5	78·7	79·3	79·0	79·0	78·8	78·6	79·0	78·8	78·5	77·9	77·3	76·8	76·5	76·2	76·0	75·7	77·7
24	75·0	74·0	74·7	74·7	74·8	75·0	75·0	75·3	76·7	77·1	77·7	78·0	78·1	78·3	78·9	78·0	78·1	75·9	74·5	74·1	74·3	74·3	74·5	74·9	75·9
25	74·9	74·9	74·1	73·9	74·2	74·6	74·7	76·1	77·3	78·3	79·9	81·0	81·4	83·1	83·2	83·6	80·5	78·4	76·7	75·3	73·9	73·2	72·6	71·0	77·0
26	70·9	70·4	70·9	69·8	70·0	69·9	69·9	73·8	77·7	80·2	82·0	83·0	85·2	86·2	86·1	86·1	84·9	81·9	78·2	75·3	73·8	72·7	70·8	70·0	76·7
27	69·4	69·1	69·1	67·9	68·0	68·3	69·1	71·4	75·5	79·8	84·2	85·3	85·9	86·2	86·2	85·9	85·2	83·0	80·9	79·0	75·9	74·6	75·0	74·9	77·0
28	75·8	75·9	76·6	76·9	76·7	76·2	75·8	75·2	75·0	74·8	75·0	75·0	75·1	75·4	76·0	75·4	75·3	74·7	74·0	73·8	73·2	72·8	72·6	69·9	75·0
29	69·1	70·1	71·2	71·3	71·8	71·7	71·6	73·8	74·8	75·7	76·8	78·2	79·1	78·8	79·0	77·4	76·2	75·9	74·9	73·9	73·6	73·3	73·1	73·1	74·3
30	73·2	73·3	73·4	73·4	73·0	73·1	73·7	73·7	73·8	74·2	74·3	74·7	75·1	76·0	76·3	76·2	76·0	75·8	75·6	75·1	75·2	74·9	74·4	74·1	74·5
31	73·9	73·9	73·8	73·7	73·9	74·0	74·1	75·2	75·8	77·7	78·9	80·1	80·3	80·8	81·0	80·9	80·0	77·7	75·0	74·2	73·3	72·7	71·9	71·7	76·1
Mean ...	72·71	72·63	72·71	72·55	**72·54**	72·60	72·56	73·50	74·69	75·83	76·76	77·39	77·68	77·95	**77·96**	77·65	76·90	75·78	74·68	74·16	73·68	73·52	73·26	73·01	74·70

185. Eskdalemuir : Louvred Hut : h_t = 0·9 metres. **April, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	70·5	70·4	70·8	70·9	71·0	70·7	72·9	74·2	76·1	77·1	78·5	79·6	80·2	80·8	80·4	79·1	77·7	75·9	75·0	74·3	74·0	73·7	73·3	73·3	75·0
2	73·7	74·1	74·3	74·0	74·0	73·9	74·0	74·1	74·5	75·0	75·1	75·0	74·6	74·3	74·2	74·2	74·3	74·3	74·0	74·0	74·2	74·2	74·2	74·3	**74·3**
3	74·0	73·7	73·6	74·0	74·1	74·2	74·7	75·0	75·6	76·2	76·8	77·8	78·1	78·6	77·9	78·4	78·2	78·2	75·8	74·3	73·2	71·9	71·0	70·5	75·3
4	72·8	71·5	70·5	75·3	75·7	75·0	76·0	78·4	79·7	81·1	81·1	81·2	82·0	81·5	81·2	80·2	80·0	79·3	79·0	79·1	78·8	77·0	76·5	76·1	77·8
5	75·9	75·6	75·7	74·9	74·0	73·9	74·6	76·3	77·9	79·0	80·2	81·1	82·0	81·9	82·0	82·0	81·0	79·1	76·2	73·9	73·4	73·1	71·1	70·8	77·0
6	69·3	69·1	68·9	67·1	67·3	67·9	69·9	74·1	78·1	79·8	80·7	81·5	82·1	82·3	83·0	82·9	82·1	81·0	76·0	74·1	72·2	71·6	70·5	71·0	75·1
7	71·2	70·7	70·2	70·9	71·2	71·8	72·4	75·6	78·8	80·0	81·8	83·1	84·0	84·0	83·3	82·4	81·7	81·3	80·4	80·0	79·9	79·7	79·6	79·7	77·9
8	79·9	79·9	79·8	79·8	79·7	80·0	80·2	80·7	81·1	81·4	81·7	82·8	82·3	82·9	83·8	82·2	82·1	81·2	80·6	80·4	80·6	79·9	79·6	79·2	80·9
9	79·1	79·0	79·0	79·0	78·9	78·9	79·0	79·9	81·0	82·1	82·9	84·7	86·0	85·6	86·6	88·1	85·9	83·5	80·9	78·9	79·4	77·1	74·9	74·3	81·1
10	72·8	71·7	71·3	71·0	70·9	70·9	73·8	77·0	83·9	85·9	86·1	86·3	87·1	87·6	86·9	86·3	85·3	83·9	81·7	80·9	80·5	80·3	80·3	80·2	80·0
11	79·8	79·6	79·6	79·3	80·3	79·8	80·0	81·0	82·2	82·8	83·3	84·6	86·1	86·9	86·8	86·0	83·3	80·7	80·0	79·2	78·8	78·8	78·8	79·0	**81·6**
12	79·2	79·9	79·3	78·6	77·8	78·2	77·9	78·9	79·8	79·5	79·5	80·8	80·4	81·5	82·4	81·3	79·0	79·2	77·1	77·0	76·5	76·0	75·9	75·0	78·9
13	74·9	74·4	74·3	74·4	74·2	74·1	76·4	77·5	78·4	79·9	79·7	81·0	82·0	83·0	80·6	79·3	78·8	78·1	78·2	80·0	80·2	80·2	80·0	79·6	78·2
14	79·9	79·7	79·2	79·1	79·0	79·2	79·1	79·9	80·9	81·0	82·8	83·2	83·8	83·9	84·9	83·2	82·4	81·8	80·8	80·3	80·1	80·0	79·9	79·3	81·0
15	79·2	79·1	79·2	79·1	78·7	78·3	78·9	79·7	80·0	81·0	80·1	80·4	79·7	79·1	79·8	80·1	79·7	79·8	79·9	79·1	78·6	78·2	77·4	77·3	79·3
16	76·2	74·9	74·9	74·9	74·9	75·2	77·7	77·9	79·3	79·3	80·0	79·9	80·6	79·7	79·3	80·3	79·9	78·4	78·0	77·7	78·1	77·4	76·0	76·4	77·8
17	75·8	75·0	74·7	74·7	74·7	75·2	76·2	77·2	78·7	80·0	78·9	74·2	78·6	79·7	81·7	78·0	74·0	74·9	74·3	74·9	75·1	74·8	75·0	75·1	76·3
18	75·6	75·6	75·1	75·2	75·3	75·2	76·2	76·3	78·0	78·9	78·1	77·8	77·9	77·3	77·1	76·0	77·2	77·0	76·3	75·1	75·0	75·1	75·7	73·9	76·3
19	74·7	74·7	74·8	74·7	74·3	74·8	76·2	77·5	77·3	79·0	79·1	78·9	79·8	79·3	79·1	78·3	78·3	78·1	76·8	75·8	75·2	75·2	74·7	74·3	76·7
20	74·0	74·3	75·0	75·0	75·5	75·7	76·9	77·4	76·8	76·9	79·3	80·0	79·8	80·2	79·1	79·2	78·5	78·5	76·4	75·0	74·5	74·2	73·6	72·8	76·6
21	72·6	72·8	72·8	71·9	71·8	73·2	73·6	75·4	77·3	79·7	80·2	81·7	81·8	81·8	82·1	81·7	81·6	81·1	80·0	79·1	78·1	77·9	78·1	77·7	77·6
22	76·9	77·4	77·1	77·8	77·8	78·1	78·6	79·1	79·6	80·3	81·0	81·0	82·2	81·8	79·8	80·4	79·7	79·2	78·7	77·6	77·5	76·8	77·2	76·5	78·9
23	76·2	76·0	76·2	76·4	76·3	76·4	76·7	78·0	78·0	79·4	80·0	80·7	81·0	81·1	79·4	78·4	78·7	78·2	79·0	78·9	78·5	78·1	78·4	78·4	78·2
24	78·5	78·3	78·3	78·4	78·3	78·5	80·1	81·6	82·0	82·3	83·0	82·5	83·9	81·9	82·1	82·9	81·9	82·1	81·0	81·0	80·2	80·0	80·0	79·8	80·7
25	80·0	80·2	80·1	79·9	79·9	80·1	80·0	80·0	80·3	80·7	80·8	80·9	81·2	82·3	82·0	82·0	81·0	80·0	79·6	79·3	79·1	78·7	78·0	78·1	80·2
26	77·3	77·3	77·8	77·3	77·8	78·0	78·1	78·4	78·8	78·6	78·5	78·9	79·3	79·8	79·0	79·0	78·5	78·8	78·4	78·2	78·1	78·1	78·1	78·1	78·3
27	78·1	77·9	77·9	77·9	76·0	76·8	78·0	77·7	77·3	78·7	78·9	78·0	77·1	79·2	82·0	81·8	77·7	80·3	79·3	78·2	77·4	76·4	76·3	76·3	78·2
28	75·7	75·9	76·2	76·2	77·3	77·8	78·2	79·3	81·2	82·7	81·7	80·7	80·7	76·9	80·7	82·0	82·7	81·3	80·0	79·0	77·5	75·3	75·5	75·1	78·8
29	75·3	74·5	74·3	75·7	76·2	75·7	79·2	81·2	72·3	84·5	84·7	84·2	84·3	84·7	84·9	84·9	84·3	83·9	83·3	79·2	78·8	78·2	77·8	75·8	80·3
30	74·6	73·3	72·8	73·0	73·7	76·4	79·0	80·0	81·9	82·1	84·1	83·1	83·5	81·3	80·2	80·3	80·8	81·0	80·0	78·0	76·7	75·0	74·5	74·9	78·4
Mean ...	75·79	75·55	**75·46**	75·55	75·55	75·80	76·82	77·98	79·23	80·16	80·62	80·85	81·40	81·36	**81·41**	81·03	80·21	79·67	78·56	77·75	77·34	76·76	76·40	76·09	78·22
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degr ees absolute is printed 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

186. Eskdalemuir : Louvred Hut : h_t (height of thermometer bulb above ground) = 0·9 metres. **May, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	72·7	73·7	73·9	74·4	75·0	75·5	76·4	77·7	79·5	80·0	79·0	81·3	80·5	81·7	80·1	81·0	80·7	79·9	78·4	76·9	76·6	75·3	74·0	73·5	77·4
2	73·0	72·7	71·6	72·1	71·8	73·0	75·0	78·2	79·1	80·7	81·5	82·5	81·8	79·9	81·0	82·4	81·9	82·4	80·1	76·4	75·0	73·2	71·9	71·7	**77·1**
3	70·6	70·7	69·9	70·8	69·8	71·1	74·0	79·7	82·6	83·2	82·1	84·3	84·1	84·9	84·8	82·9	81·7	81·2	79·7	78·1	76·9	75·0	74·0	74·7	77·7
4	73·8	74·3	74·6	74·9	74·1	74·9	76·0	77·1	80·9	82·5	82·7	84·0	84·3	83·8	85·3	84·8	83·9	82·7	80·6	78·5	77·6	77·7	77·2	75·9	79·2
5	76·3	76·3	77·3	77·2	77·3	77·8	78·1	79·2	79·9	79·0	79·7	82·2	82·3	82·2	82·7	82·3	81·8	80·8	80·2	79·7	79·2	78·6	78·4	78·9	79·4
6	80·0	80·9	80·9	80·6	79·8	81·5	82·0	82·9	83·0	84·9	87·0	88·0	86·3	84·0	85·5	86·0	85·7	85·2	85·0	83·9	83·0	80·1	79·3	79·3	83·1
7	78·4	78·3	78·1	77·7	78·3	78·9	81·7	82·9	82·9	83·7	85·8	86·3	84·3	83·1	83·1	83·5	84·9	83·3	82·3	81·5	80·2	80·1	80·0	80·1	81·6
8	80·1	80·0	80·0	79·9	79·9	80·1	80·7	81·3	81·7	81·1	81·7	83·6	85·1	85·3	86·1	86·8	86·0	85·0	82·9	80·1	78·6	77·0	76·7	77·1	81·6
9	75·1	75·8	75·7	73·8	73·2	74·9	78·7	81·4	83·5	85·0	86·3	87·0	88·2	89·0	87·9	86·9	85·6	85·4	83·7	82·3	81·9	81·3	81·1	80·7	81·8
10	80·9	80·5	80·7	80·9	81·0	80·9	80·9	82·2	82·5	82·8	82·9	83·0	83·0	83·0	83·2	82·7	82·3	82·3	82·7	82·8	82·7	82·4	82·0	81·9	82·1
11	81·9	82·1	82·9	82·7	82·3	81·6	81·2	81·1	82·8	83·7	84·0	84·0	84·0	84·0	84·9	83·2	83·9	83·1	82·8	82·0	79·5	80·6	79·7	79·7	82·5
12	79·7	78·5	78·5	79·9	79·8	80·1	80·3	80·9	82·2	83·9	83·2	83·0	82·3	82·0	83·2	83·2	81·9	81·3	81·2	80·9	80·8	80·2	80·1	80·0	81·1
13	80·0	80·2	80·9	81·0	81·6	82·0	82·4	82·6	83·0	83·0	82·8	82·7	82·5	82·4	82·5	82·6	82·4	82·2	82·1	82·0	81·0	80·8	80·9	81·0	81·8
14	81·0	81·1	81·2	81·1	81·2	81·1	81·3	81·5	82·0	82·3	82·0	82·7	83·0	83·0	83·9	83·9	83·1	82·4	82·0	81·9	81·5	81·5	81·2	81·1	82·0
15	81·0	81·0	80·8	80·8	80·7	81·0	81·1	81·5	82·1	82·4	82·6	82·8	83·5	84·0	85·6	85·1	84·8	83·2	83·0	81·6	80·7	80·0	78·4	78·0	82·0
16	78·3	78·7	78·9	78·7	78·9	79·3	80·0	82·5	83·7	84·6	85·0	86·1	85·7	86·5	85·9	84·6	82·3	82·0	82·8	81·3	80·4	79·7	79·3	78·3	81·8
17	78·3	78·2	78·2	77·3	77·7	79·2	81·5	82·9	82·1	82·9	83·7	84·0	85·8	85·0	84·3	85·0	83·3	82·9	82·3	81·6	81·2	80·0	79·5	80·0	81·5
18	79·8	80·0	79·5	78·6	78·7	79·4	80·0	81·0	83·8	85·2	85·5	86·7	86·0	85·8	86·2	86·3	86·5	85·1	83·2	82·0	81·7	80·7	80·6	79·8	82·6
19	79·2	79·3	79·3	78·9	78·4	78·5	79·6	80·0	81·3	82·8	82·8	82·9	82·9	83·2	84·2	83·0	83·0	82·5	81·2	79·0	76·4	75·3	74·4	73·9	80·2
20	74·8	73·3	72·5	71·9	73·3	76·0	78·5	80·0	80·3	81·2	81·7	82·2	82·7	83·1	84·1	83·0	82·9	81·9	80·2	78·9	76·1	75·0	73·0	71·9	78·3
21	72·0	71·2	71·3	70·6	72·7	76·0	79·6	81·5	82·8	84·0	84·5	85·4	85·3	86·0	85·3	85·1	84·2	83·1	81·4	78·9	77·4	75·9	75·9	75·7	79·3
22	74·8	76·0	76·0	76·1	76·5	77·6	78·7	79·6	79·9	79·9	80·3	80·7	82·0	82·0	82·2	82·4	81·8	81·7	81·1	80·8	80·3	80·0	79·9	79·8	79·5
23	79·8	79·8	79·8	79·8	79·9	80·1	82·7	83·9	83·3	84·5	84·8	84·6	86·0	86·1	87·3	87·6	87·2	85·7	84·8	84·2	83·9	83·2	83·0	82·8	83·5
24	82·3	82·0	82·3	82·5	82·9	83·1	83·9	83·5	83·5	83·9	84·0	84·5	83·7	83·3	83·6	83·4	83·7	83·2	83·0	83·1	82·8	82·7	82·5	82·5	83·2
25	82·5	82·7	82·4	82·4	82·3	82·6	82·9	83·5	84·6	84·2	85·7	84·0	84·5	86·5	86·6	85·9	85·4	84·6	84·0	83·0	82·4	82·2	82·2	82·2	83·7
26	82·0	82·1	82·3	82·7	81·8	81·5	83·0	84·0	84·3	85·0	86·5	87·0	87·6	87·6	87·8	87·9	87·5	87·4	86·3	83·7	79·8	78·5	78·0	78·0	83·9
27	78·1	77·1	77·3	77·0	78·5	82·5	85·0	85·0	87·9	89·0	90·8	91·0	92·6	93·1	92·2	91·7	91·0	89·9	88·3	86·7	85·0	84·0	83·5	84·3	85·8
28	83·2	82·2	82·8	83·0	82·7	83·3	84·0	84·5	83·9	85·3	85·8	85·9	87·0	86·9	84·6	83·4	83·3	83·0	83·1	83·3	83·3	82·9	82·6	82·3	83·9
29	81·5	80·3	79·6	78·3	80·0	82·1	83·9	84·3	86·9	86·3	87·3	88·8	89·4	90·3	90·9	90·3	91·0	90·0	88·9	86·9	84·7	84·2	84·0	83·1	85·5
30	82·8	83·2	83·7	83·4	83·5	85·2	85·9	86·3	87·0	87·9	87·8	88·8	89·1	91·0	91·4	89·4	87·9	87·7	87·8	87·1	85·8	85·8	85·7	85·1	**86·6**
31	84·6	84·0	84·0	83·8	83·6	83·6	84·0	84·3	84·6	84·0	85·3	86·1	84·8	83·7	84·2	85·0	84·4	83·7	83·5	83·2	83·0	82·5	82·1	82·0	84·0
Mean ...	78·66	78·59	78·61	**78·48**	78·62	79·50	80·74	81·84	82·83	83·51	84·03	84·71	84·85	84·92	**85·18**	84·88	84·39	83·70	82·86	81·69	80·63	79·88	79·39	79·20	81·73

187. Eskdalemuir : Louvred Hut : h_t = 0·9 metres. **June, 1931.**

Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	82·1	82·1	82·0	81·9	82·2	83·1	83·1	83·5	84·1	85·0	85·0	85·0	85·0	84·7	83·8	82·6	81·4	81·1	80·9	80·7	80·3	80·2	80·0	80·0	82·5
2	79·8	79·7	79·2	79·0	79·1	79·4	79·7	80·7	81·2	81·8	81·2	81·1	80·9	80·4	79·8	79·1	78·6	78·6	77·9	77·9	77·8	77·5	77·6	77·4	**79·4**
3	77·6	77·7	77·8	77·8	78·0	78·0	78·1	78·5	79·1	80·0	80·4	80·6	80·6	80·5	80·8	80·9	80·8	80·7	80·3	80·3	80·0	79·9	79·9	79·8	79·5
4	79·9	80·0	80·0	80·1	80·5	81·0	82·0	83·5	86·1	89·0	90·1	91·0	90·1	89·2	88·0	86·0	84·9	83·2	82·6	82·0	81·7	81·7	81·5	81·2	83·9
5	81·0	81·0	80·9	80·8	80·8	80·8	80·9	81·3	81·0	80·7	81·5	81·9	83·0	83·9	84·6	83·9	83·0	81·9	80·9	80·1	79·9	79·3	79·2	79·1	81·4
6	78·7	78·5	78·6	78·4	78·4	78·7	79·0	78·9	79·1	78·9	79·0	78·9	78·8	79·1	79·5	79·2	78·9	78·9	78·5	78·1	78·0	78·0	77·9	78·0	78·7
7	78·3	78·3	78·2	78·1	78·0	78·0	78·0	78·7	79·4	80·1	80·8	82·9	83·2	83·3	84·3	84·5	84·3	83·0	82·0	81·4	81·0	81·1	81·2	81·2	80·7
8	81·1	81·1	81·2	81·3	81·3	81·6	82·0	82·0	82·9	83·2	83·2	85·1	87·1	86·9	86·1	86·1	86·4	86·1	85·8	85·0	83·8	83·8	83·9	83·8	83·7
9	83·8	83·2	83·2	83·0	83·1	83·2	83·7	84·5	86·1	86·1	87·0	88·0	87·1	86·8	85·9	85·8	85·9	85·1	84·5	84·1	84·0	83·9	83·8	83·7	84·8
10	83·6	83·6	83·5	83·7	83·9	84·0	84·3	84·2	84·7	84·9	85·5	85·8	86·0	86·2	86·4	86·0	85·7	85·2	84·9	84·9	84·7	84·2	83·9	83·9	84·7
11	83·9	83·9	83·8	83·3	83·5	83·0	82·8	83·0	83·0	84·2	84·8	86·0	87·6	88·0	88·1	88·9	87·6	86·9	86·3	84·2	82·6	81·0	78·8	78·3	84·4
12	79·0	79·3	81·1	81·8	82·7	83·3	84·2	84·0	84·2	84·3	85·8	87·7	88·0	88·0	88·6	89·3	89·1	88·7	88·0	86·9	85·6	84·9	82·0	80·3	84·8
13	78·6	77·3	76·1	75·9	76·9	80·3	82·7	86·0	89·1	90·0	90·2	90·8	91·1	91·0	91·7	91·4	90·0	88·9	88·0	87·2	86·8	86·4	86·1	85·9	85·7
14	85·2	85·1	85·2	85·2	85·1	85·7	87·8	88·3	89·3	88·0	87·1	87·7	87·8	88·5	90·1	89·1	88·8	88·2	86·0	85·7	85·5	85·7	85·1	85·0	86·9
15	84·2	83·6	82·8	81·9	81·9	81·9	82·2	83·1	85·0	84·9	85·0	85·6	85·0	85·9	85·9	85·8	84·9	83·9	83·8	83·8	83·8	83·9	83·9	84·0	84·1
16	84·0	84·0	83·9	83·9	83·9	84·0	84·2	84·3	84·7	85·0	85·0	87·8	87·2	88·1	87·8	87·7	86·6	86·7	85·5	84·9	83·3	83·6	83·7	83·5	85·1
17	83·3	83·2	83·0	82·9	82·8	82·9	83·0	83·4	84·9	85·2	84·7	82·9	84·0	87·0	87·2	85·5	84·1	83·9	82·2	82·0	82·0	81·4	81·9	81·7	83·6
18	81·8	81·9	81·9	81·8	82·0	82·1	82·4	82·6	83·1	82·8	83·0	82·0	81·4	82·9	83·1	85·0	84·2	83·2	83·2	82·9	83·1	82·1	81·6	81·7	82·6
19	80·8	81·3	80·6	80·5	81·0	82·3	83·2	82·2	82·7	83·3	83·5	86·3	86·2	86·0	85·8	84·9	83·9	82·3	82·1	81·4	80·2	78·7	76·9	76·7	82·3
20	76·3	77·1	77·3	77·4	78·1	79·1	79·9	80·3	81·0	83·1	83·6	85·5	86·1	87·2	86·1	85·3	86·0	84·3	83·6	82·9	82·7	82·3	82·4	82·6	82·0
21	83·0	83·4	83·9	74·1	84·7	85·1	85·7	85·9	86·3	86·0	86·5	88·0	91·6	90·7	90·6	90·8	89·9	88·9	87·8	87·7	87·0	86·7	86·1	86·1	86·9
22	86·0	86·0	86·0	85·8	85·1	85·0	85·4	85·0	85·2	85·3	86·8	87·3	88·3	87·7	86·6	86·1	87·6	87·1	85·4	84·1	83·4	82·8	82·4	82·1	85·6
23	81·1	81·5	81·8	81·3	81·1	81·5	81·3	81·4	82·1	82·8	84·0	84·5	85·2	86·2	87·4	87·0	84·9	84·0	82·7	81·7	81·4	81·3	81·0	81·0	82·9
24	80·9	80·6	80·5	79·3	80·1	81·1	82·7	82·8	83·3	84·3	85·8	86·3	86·3	86·2	85·9	86·3	86·6	85·8	85·1	83·9	80·4	79·8	79·3	78·5	83·0
25	76·0	74·9	73·9	73·3	75·8	78·6	81·9	84·3	86·2	87·8	87·7	88·9	89·5	89·3	90·0	90·0	89·9	88·9	87·9	86·0	82·3	80·2	78·8	77·0	83·3
26	76·0	75·9	75·5	77·1	78·9	82·1	83·8	84·0	84·0	84·0	84·4	85·0	86·7	88·2	87·1	86·7	86·1	85·8	85·5	85·3	85·3	85·2	85·3	85·3	83·3
27	85·2	85·2	85·8	86·1	86·2	85·9	86·0	85·9	86·0	86·7	87·1	87·0	87·1	88·4	89·6	89·9	91·1	88·9	88·1	87·2	86·5	85·9	85·5	84·9	**86·9**
28	84·6	84·4	84·3	84·2	84·5	85·0	87·1	88·3	88·9	89·6	89·6	89·3	89·3	88·3	88·2	87·8	86·1	87·1	86·3	84·4	82·9	82·5	82·4	82·6	86·2
29	82·7	82·4	82·3	81·9	81·6	82·0	82·7	84·0	85·2	85·0	86·1	85·6	87·2	87·1	86·6	86·3	85·2	85·0	85·1	83·7	81·3	81·0	79·7	88·0	83·8
30	78·0	76·9	75·8	74·2	75·7	77·3	79·9	82·3	83·2	83·7	84·7	85·2	86·7	86·6	86·5	86·1	85·1	84·2	84·0	82·9	82·9	82·6	82·3	82·3	82·0
Mean ...	81·22	81·10	81·00	**80·87**	81·23	81·87	82·66	83·23	84·04	84·52	84·97	85·66	86·14	**86·41**	86·40	86·13	85·59	84·88	84·16	83·44	82·67	82·25	81·80	81·59	83·49
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is printed 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

188. Eskdalemuir : Louvred Hut : h_t (height of thermometer bulb above ground) = 0·9 metres. **July, 1931.**

Hour. G.M.T. Day.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	82·3	82·2	82·2	82·1	82·3	83·0	83·2	84·0	84·2	84·9	86·0	85·2	85·9	87·0	86·6	85·3	84·9	84·9	84·7	84·5	84·3	84·3	84·4	84·5	84·2
2	84·6	84·3	84·1	84·0	84·0	84·1	84·4	85·2	86·2	87·7	87·1	86·9	86·5	86·9	85·3	85·3	86·1	85·3	85·0	84·9	84·2	83·9	83·3	83·5	85·1
3	83·3	83·6	83·6	83·3	83·5	84·2	84·2	84·2	84·8	84·9	85·2	85·7	86·1	86·0	85·5	86·1	85·9	85·7	85·9	85·8	85·7	85·7	85·6	85·5	85·0
4	85·4	85·4	85·7	85·3	85·3	85·7	86·1	86·0	87·3	87·9	88·0	86·9	86·9	87·1	87·2	87·9	88·0	87·1	86·7	85·8	85·2	85·0	84·4	84·1	86·3
5	84·3	84·4	84·2	84·1	84·0	84·0	85·0	86·0	87·2	87·2	88·0	89·1	89·7	90·1	89·9	88·9	88·0	86·0	86·0	85·7	83·8	83·0	82·3	81·1	86·0
6	80·7	79·8	80·3	81·6	82·0	82·7	84·7	86·9	87·6	87·9	87·6	88·8	89·1	89·2	89·1	87·9	85·8	84·4	85·0	84·7	84·9	85·0	83·9	84·0	85·1
7	83·7	83·8	83·8	83·8	83·9	84·0	84·7	86·0	86·7	88·0	86·9	87·7	89·3	89·3	90·7	91·0	90·3	90·2	88·3	87·0	85·6	84·7	84·6	83·5	86·6
8	83·4	83·8	83·2	83·2	83·2	83·5	84·7	86·4	86·2	86·7	86·9	87·7	87·0	87·2	87·2	86·9	86·6	86·5	87·0	86·9	87·1	85·9	85·3	87·1	85·7
9	85·2	84·8	85·0	85·8	86·7	87·0	90·0	91·2	91·2	92·2	93·0	93·1	93·0	91·9	93·0	90·8	89·7	88·6	88·0	87·3	86·6	86·3	85·6	84·9	**88·9**
10	84·9	84·9	84·9	84·9	84·8	85·1	85·2	85·8	85·5	86·0	86·3	86·3	86·4	86·2	86·2	87·0	87·0	86·9	86·3	86·1	85·9	85·6	85·3	85·0	85·8
11	84·5	84·9	84·9	84·8	85·0	85·6	86·1	88·0	87·7	88·3	89·1	90·2	90·3	91·7	91·7	91·0	89·8	89·2	88·9	87·0	85·4	84·5	84·2	84·9	87·4
12	85·4	85·5	85·8	86·2	86·3	86·7	87·0	87·1	88·1	86·0	86·9	87·4	88·0	89·2	90·3	90·4	90·0	89·6	88·7	86·9	85·5	85·7	85·4	85·2	87·2
13	84·0	82·1	82·4	82·1	82·2	83·9	85·2	86·1	87·0	87·1	87·8	88·1	88·0	85·8	88·9	89·3	88·2	87·8	86·0	85·6	85·4	84·9	84·8	84·5	85·7
14	84·3	84·2	83·1	81·9	83·6	85·0	86·1	87·0	88·0	88·5	88·3	86·2	88·7	87·5	88·1	88·3	89·7	87·0	88·0	87·4	85·4	85·4	84·9	84·5	86·3
15	84·9	85·0	84·9	85·0	85·3	85·6	86·1	86·7	86·9	88·3	89·1	89·3	89·9	90·3	90·0	90·0	90·7	90·3	89·3	86·6	85·9	85·0	83·0	81·9	87·1
16	81·2	82·4	83·7	83·8	83·9	85·3	85·0	86·7	88·2	89·3	88·8	88·4	88·0	88·3	88·7	88·8	87·1	87·0	86·2	86·0	85·8	85·3	85·4	85·4	86·1
17	85·3	85·2	84·9	84·9	84·6	84·9	86·2	85·0	86·3	86·0	87·0	86·6	85·9	86·5	86·2	85·8	85·0	84·9	84·1	84·1	84·0	84·1	84·0	84·1	85·3
18	84·1	84·1	84·1	84·1	84·2	84·2	84·8	85·4	85·8	86·0	87·0	87·3	87·3	87·6	86·5	87·3	88·8	88·7	86·0	85·2	84·8	84·3	84·1	83·4	85·6
19	83·3	83·2	83·2	83·2	83·3	84·0	84·4	85·6	86·5	86·8	86·8	86·6	87·2	87·8	88·4	88·1	84·6	84·8	85·3	84·1	83·7	83·7	83·3	82·2	85·0
20	81·9	80·3	80·4	80·2	81·0	81·2	82·0	82·2	83·6	84·9	85·2	86·3	86·3	86·8	87·0	87·9	86·7	86·0	85·3	84·2	82·4	81·9	81·4	81·2	**83·6**
21	80·0	80·0	79·3	81·9	82·6	83·1	83·9	84·9	85·8	85·0	86·3	87·0	87·8	87·2	86·9	85·3	84·8	84·9	83·9	83·8	84·3	84·5	84·9	85·4	84·2
22	86·0	86·8	87·3	87·7	87·3	87·0	87·0	87·8	87·7	87·7	87·9	88·0	87·8	87·1	86·7	86·6	86·3	86·0	85·9	86·0	85·9	85·9	85·8	85·6	86·8
23	85·6	85·6	85·0	84·6	84·2	84·1	84·6	85·9	86·8	87·0	88·0	88·9	88·0	88·9	87·6	87·7	87·2	87·0	86·3	85·7	85·3	85·1	85·1	85·0	86·2
24	85·0	84·8	84·6	84·3	83·9	84·2	85·3	85·7	86·0	87·2	87·9	87·1	87·0	88·7	88·5	88·2	87·1	86·1	86·2	85·9	85·1	84·9	84·3	84·6	85·9
25	84·8	84·7	84·4	84·7	84·6	84·9	85·7	86·1	86·4	87·1	88·1	89·3	90·3	89·8	88·5	87·3	87·2	86·4	86·5	86·4	85·9	85·0	84·9	85·0	86·4
26	85·3	85·6	85·9	85·8	85·4	85·7	86·2	86·0	87·2	87·8	89·0	90·3	90·3	89·8	89·2	91·0	88·7	87·9	86·9	85·7	84·2	83·3	82·9	82·1	86·8
27	83·4	83·7	83·6	83·1	82·8	83·1	83·3	(83·8)	(85·0)	85·8	86·9	86·2	86·6	86·1	85·9	87·6	85·4	85·0	84·7	84·3	84·3	83·9	83·8	83·9	84·6
28	84·0	84·1	84·3	83·9	84·0	84·2	85·0	85·0	85·0	85·1	84·6	85·3	85·4	86·0	85·8	85·3	84·9	84·5	84·3	84·0	83·9	83·7	83·2	83·4	84·5
29	83·2	82·9	82·7	82·0	82·0	82·6	83·1	83·9	84·9	84·9	85·4	85·7	85·4	85·6	85·8	85·9	85·9	85·9	86·0	86·0	86·0	85·9	85·8	85·0	84·7
30	84·1	84·1	84·0	84·1	84·3	85·0	85·9	87·0	87·9	88·2	88·0	89·7	90·2	89·3	89·0	88·8	89·0	88·7	87·8	86·3	84·2	83·7	84·4	84·4	86·6
31	84·0	83·9	84·0	84·1	85·0	85·9	87·0	87·8	87·8	87·4	88·2	89·0	88·8	88·8	88·9	89·1	88·2	88·0	87·8	87·0	86·4	86·1	85·9	85·3	86·8
Mean ...	83·94	**83·87**	84·18	83·89	84·04	84·50	85·23	85·98	86·63	87·03	87·46	87·75	87·97	**88·05**	87·72	87·96	87·34	86·82	86·35	85·71	85·07	84·72	84·39	84·20	85·86

189. Eskdalemuir : Louvred Hut : h_t = 0·9 metres. **August, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	85·1	84·1	84·1	84·6	84·8	85·7	86·1	87·0	88·7	89·0	90·0	90·3	91·0	91·0	91·3	91·6	91·7	91·1	89·9	88·7	87·8	87·1	87·0	86·1	88·1
2	86·0	84·9	84·7	83·9	84·3	84·8	85·7	85·9	85·8	87·0	88·9	89·1	89·7	89·1	88·3	87·7	87·3	87·9	87·3	86·9	86·1	85·9	85·5	85·2	86·6
3	85·0	84·9	84·4	84·1	84·4	84·8	84·9	85·1	86 1	87·4	89·0	88·9	90·1	91·1	91·6	90·9	88·5	87·8	86·2	84·9	84·9	84·2	83·8	83·6	86·6
4	83·3	83·3	83·4	83·2	83·1	83·1	83·7	84·8	85·9	88·0	88·1	90·2	92·0	92·9	92·4	92·0	91·0	90·4	88·8	86·9	85·5	84·3	83·8	83·9	86·8
5	83·2	82·9	82·3	82·0	81·8	81·8	82·7	83·4	84·2	86·6	89·7	90·7	91·8	93·0	93·2	93·1	93·1	91·2	88·4	87·3	86·8	85·9	86·1	86·0	86·9
6	86·0	86·2	86·0	86·0	85·9	86·2	87·0	90·0	91·1	92·8	94·8	94·2	95·8	95·7	94·2	94·0	93·3	91·1	90·2	89·8	87·8	87·4	87·0	86·9	**90·0**
7	86·8	86·3	86·5	86·3	84·9	84·3	83·7	83·3	83·7	84·7	86·0	87·4	88·7	88·1	88·1	86·8	87·1	86·7	85·7	85·0	84·6	84·6	83·9	83·2	85·8
8	83·1	83·6	83·8	82·9	82·3	82·1	82·6	84·4	85·9	85·9	85·3	84·9	84·2	85·2	86·1	83·9	84·3	83·2	82·4	80·6	80·5	79·8	79·2	78·9	83·2
9	78·5	79·1	77·4	77·9	78·5	79·8	81·0	82·3	84·1	84·0	85·3	86·7	86·3	88 2	87·1	87·1	86·0	84·8	83·6	82·8	82·6	81·6	81·8	81·4	82·8
10	81·2	80·6	80·5	80·4	80·7	81·2	83·4	83·6	84·8	83·9	85·5	84·0	85·3	85·3	85·1	85·7	85·9	85·3	85·0	81·6	79·6	79·1	78·9	78·7	82·8
11	79·2	80·1	80·1	79·1	78·9	78·9	80·6	83·0	86·8	86·3	86·3	86·1	87·0	86·1	85·9	86·6	86·0	85·7	85·1	85·1	84·5	84·2	84·4	84·5	83·7
12	84·0	83·3	82·1	81·0	79·7	80·2	83·2	85·3	85·3	87·3	87·7	88·7	88·3	90·9	92·4	92·0	89·9	90·0	88·3	88·1	87·6	87·4	87·0	86·3	86·5
13	86·0	86·1	85·9	85·6	85·7	86·0	86·9	87·7	86·9	87·1	87·4	87·3	88·0	88·2	87·8	88·1	87·7	86·7	85·6	85·0	84·6	84·1	83·9	83·5	86·4
14	83·0	82·8	82·8	82·3	82·7	82·6	83·3	83·4	85·9	87·1	87·2	87·4	88·0	88·0	87·9	87·2	86·2	85·2	84·2	83·1	83·2	83·0	82·8	82·7	84·7
15	82·5	82·7	82·8	82·8	82·8	82·8	83·0	83·3	83·7	83·7	84·1	85·8	86·0	86·9	86·8	87·0	85·9	85·5	85·1	84·0	84·0	83·9	83·7	83·4	84·2
16	83·2	82·7	83·2	83·2	83·4	84·0	84·9	85·0	85·3	85·1	88·1	89·4	90·7	90·7	91·3	89·4	86·8	86·4	86·3	85·2	84·9	85·0	85·1	85·0	86·0
17	84·9	84·9	84·9	84·9	84·9	84·9	85·1	85·2	85·8	85·6	86·1	86·4	87·2	88·0	88·0	88·6	88·4	87·2	86·2	86·2	86·0	85·7	85·4	85·3	86·1
18	85·0	84·9	84·4	84·3	83·9	83·7	83·9	84·7	86·9	86·9	87·1	89·6	89·5	90·7	90·1	89·9	88·9	86·7	85·9	85·0	84·0	83·0	82·9	83·1	86·1
19	82·0	81·4	81·6	81·8	81·4	81·8	82·3	82·6	83·6	84·5	84·6	84·9	85·1	85·7	84·8	84·9	85·1	85·0	85·0	85·1	84·9	84·9	85·0	85·0	83·8
20	85·0	85·1	85·1	85·1	85·3	84·8	84·8	84·6	84·9	84·5	84·6	85·6	86·7	85·3	85·9	87·6	86·6	85·9	85·5	85·0	84·9	84·1	83·9	84·3	85·2
21	84·7	84·2	84·3	84·4	84·4	84·4	84·4	84·6	85·0	85·3	85·9	85·3	86·0	87·5	88·0	85·9	85·6	85·2	84·8	82·1	82·9	81·0	80·0	80·0	84·5
22	78·9	79·0	79·3	79·1	78·7	80·3	81·2	82·8	83·7	83·3	84·1	84·3	84·9	84·9	85·0	85·1	84·7	83·9	83·1	79·3	77·6	76·2	75·7	75·9	81·4
23	76·4	78·3	78·6	79·5	79·6	79·6	80·3	81·8	83·0	84·4	86·0	85·0	84·7	85·9	84·9	85·2	85·0	84·2	83·4	82·1	81·0	80·3	79·7	80·0	81·9
24	77·9	76·8	77·8	76·1	75·0	76·7	79·9	82·3	82·7	82·8	83·1	83·9	84·3	84·2	83·9	83·3	83·4	83·2	82·3	81·8	81·1	80·7	80·9	80·3	**81·0**
25	80·3	80·7	79·8	78·9	78·9	79·4	81·9	84·0	85·1	85·2	85·7	86·0	85·8	86·8	86·9	86·9	86·1	85·9	84·1	82·8	82·9	82·4	81·6	80·7	83·3
26	80·3	79·2	79·5	79·9	78·5	78·6	81·0	85·1	86·6	88·0	89·7	89·2	89·2	89·7	90·0	89·9	89·1	88·4	85·2	82·1	79·8	78·3	77·3	77·0	83·9
27	76·6	76·1	76·0	76·0	76·2	75·9	78·2	83·2	86·7	88·6	88·9	90·5	91·1	90·9	91·1	90·1	89·7	88·6	86·9	85·2	83·8	83·1	82·6	81·7	84·0
28	81·8	80·6	79·1	78·0	77·1	77·6	79·3	82·1	84·8	87·2	89·1	89·3	89·9	88·7	89·0	88·7	88·0	86·4	84·9	84·0	83·5	83·0	82·6	81·4	84·0
29	81·7	81·3	81·4	81·7	82·0	82·1	83·7	85·2	86·3	87·0	87·6	89·6	90·0	90·1	89·9	89·0	87·0	85·5	85·0	83·8	83·7	82·9	83·0	82·7	85·1
30	82·9	82·2	82·0	81·8	82·1	82·0	83·7	84·8	86·1	87·9	88·9	88·9	89·2	88·6	88·2	87·8	86·5	85·1	83·6	82·9	82·1	81·3	81·1	80·9	84·6
31	80·6	80·0	79· 0	79·4	79·1	78·8	79·4	81·9	83·7	84·6	86·2	87·2	87·9	88·7	89·7	89·8	89·4	88·3	83·1	81·2	79·0	77·4	76·7	75·9	82·9
Mean ...	82·42	82·20	82·03	81·81	**81·65**	81·90	82·96	84·27	85·45	86·18	87·13	87·64	88·21	**88·58**	88·55	88·25	87·55	86·73	85·52	84·31	83·62	82·96	82·65	82·37	84·80
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is printed 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

190. Eskdalemuir : Louvred Hut : h_t (height of thermometer bulb above ground) = 0·9 metres. **September, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	75·0	74·3	73·7	73·5	72·5	72·6	75·6	80·1	85·7	88·0	89·0	89·2	89·5	89·0	88·8	88·3	88·0	87·0	85·1	84·7	84·0	82·8	83·1	83·2	82·5
2	82·7	83·2	82·6	82·2	82·1	82·0	82·1	82·7	83·8	84·3	84·9	84·8	84·3	84·7	83·2	82·3	82·0	81·6	81·3	81·2	81·3	81·0	80·8	80·8	82·6
3	81·0	80·9	81·0	81·0	81·0	80·9	81·3	82·0	83·2	84·1	83·9	83·2	83·0	82·7	82·6	82·4	82·0	81·8	81·1	81·4	81·5	81·7	81·4	81·0	81·9
4	80·9	81·0	81·0	81·1	81·2	81·3	81·8	82·9	83·0	83·3	83·4	83·4	83·7	83·8	83·6	83·2	82·9	82·6	81·9	81·9	81·5	81·2	81·2	80·9	82·2
5	80·9	80·6	80·5	80·6	80·5	80·4	80·7	81·3	82·7	83·5	85·0	86·1	84·1	85·0	82·0	83·2	82·8	81·0	80·3	79·0	78·8	78·0	77·2	77·1	81·4
6	77·2	77·0	77·0	76·0	77·1	77·9	80·1	81·9	82·5	83·3	84·1	85·7	84·6	84·0	83·2	82·7	82·7	82·0	79·7	79·0	79·0	79·2	78·8	77·5	80·5
7	76·9	75·0	74·3	75·9	76·0	76·6	77·3	79·0	81·5	82·0	83·5	83·5	85·2	85·2	86·1	85·0	83·9	83·2	79·9	79·3	78·8	79·7	77·8	76·0	80·1
8	76·0	75·1	74·1	73·2	72·6	72·7	74·3	81·0	83·1	83·7	84·2	85·7	85·6	84·9	83·7	85·0	84·1	83·3	82·9	82·0	81·8	81·0	80·3	78·6	80·3
9	79·1	77·9	77·9	78·2	77·9	78·0	79·0	80·9	82·0	83·5	83·5	83·4	84·1	84·5	83·8	83·1	82·6	81·9	81·1	78·3	77·1	75·9	75·3	74·9	80·2
10	76·0	76·9	77·5	77·0	77·6	77·6	78·9	80·3	81·3	83·0	85·0	82·2	83·0	83·3	81·0	78·9	79·4	79·6	78·3	75·3	75·1	73·8	72·9	71·9	78·6
11	71·3	71·0	70·2	69·7	69·0	68·8	71·7	74·2	80·9	82·5	82·5	84·2	83·1	83·4	82·3	82·9	83·8	82·3	81·9	81·3	81·0	80·9	80·1	80·1	**78·1**
12	80·7	79·8	79·8	79·3	79·2	79·6	80·0	80·7	80·7	82·3	83·7	83·1	83·0	83·6	84·1	83·0	82·4	81·0	76·9	75·9	74·9	74·1	73·1	72·7	79·9
13	71·9	72·3	71·4	70·9	70·1	69·9	72·0	75·9	82·5	83·3	85·0	86·7	84·2	84·9	85·0	84·8	84·1	83·7	82·2	82·0	82·0	82·0	81·9	81·9	79·4
14	81·6	81·9	82·0	82·0	82·0	82·1	82·3	83·1	85·0	86·0	85·9	85·5	86·7	87·1	87·0	86·6	87·0	86·1	85·8	85·7	85·8	85·8	85·8	85·8	84·7
15	85·9	85·8	85·8	85·8	85·3	85·1	85·7	87·1	88·6	90·7	90·5	90·3	89·2	89·3	88·9	88·1	87·3	86 4	85·5	84·2	84·0	83·3	83·0	82·7	**86·7**
16	81·9	81·9	82·0	82·1	82·3	82·5	83·1	84·0	85·4	87·0	87·6	87·3	87·0	86·8	86·6	85·3	85·1	85·0	85·0	85·3	85·4	85·3	85·4	85·7	84·7
17	85·1	85·1	84·3	84·2	84·2	84·3	84·8	85·0	85·6	86·8	87·1	88·0	89·1	90·2	88·9	88·3	87·8	86·0	85·0	83·3	83·4	82·7	81·7	80·9	85·6
18	78·7	77·1	76·5	76·1	75·1	75·1	77·3	82·0	85·5	88·8	90·7	91·4	91·5	91·0	90·6	90·9	90·0	89·2	88·0	86·9	87·1	87·3	87·9	87·3	84·9
19	86·1	86·1	86·2	85·9	86·0	86·0	87·0	87·5	87·0	84·7	85·0	85·7	86·1	86·1	86·1	86·2	85·2	82·6	78·9	78·7	77·8	76·3	75·8	75·4	83·9
20	75·0	75·0	74·8	74·7	74·3	73·7	75·0	78·7	81·2	83·8	85·9	86·2	86·2	86·0	86·3	85·5	84·6	82·9	82·5	82·5	82·2	82·0	82·3	80·7	80·8
21	80·3	78·6	77·0	77·3	76·1	77·2	79·2	79·6	81·8	82·7	82·9	83·2	83·7	84·0	83·7	83·4	82·3	79·8	78·8	77·3	77·5	76·2	75·0	74·8	79·8
22	75·0	75·4	74·3	73·1	73·0	74·0	76·2	77·9	80·2	82·1	83·7	85·9	87·9	88·9	89·0	88·3	88·2	87·0	86·3	85·0	84·3	85·1	84·5	84·7	81·9
23	84·3	84·2	84·1	83·0	83·0	83·4	83·6	84·0	84·3	84·2	84·8	85·1	84·9	85·9	85·9	85·8	85·9	84·0	82·0	83·1	83·0	82·6	83·0	83·1	84·1
24	83·0	82·9	82·8	82·6	82·7	82·8	82·9	83·1	83·4	83·9	84·6	85·4	86·0	87·4	86·4	85·6	84·3	83·3	82·8	82·5	82·2	82·3	82·5	82·1	83·7
25	82·3	82·2	82·1	82·0	81·7	81·9	82·0	82·6	83·1	85·0	86·6	87·5	87·6	88·8	87·7	87·5	87·0	84·9	82·9	81 0	79·6	78·1	77·1	76·2	83·3
26	76·1	76·1	77·5	78·5	80·0	77·8	80·1	82·1	83·3	84·0	84·9	85·4	85·9	86·1	85·9	85·8	85·1	84·7	84·7	84·0	83·7	83·0	82·7	80·1	82·3
27	80·4	82·0	82·1	78·7	77·6	76·0	76·3	78·4	81·2	83·8	84·9	85·0	85·2	85·6	85·1	85·0	84·3	83·9	83·2	82·9	82·8	82·9	83·0	82·8	82·2
28	83·0	83·1	83·0	82·4	83·2	81·2	80·6	81·9	83·2	84·9	85·5	85·3	85·7	85·9	85·5	85·5	85·2	84·9	83·7	83·7	83·3	82·8	82·8	82·6	83·7
29	82·5	82·6	82·5	82·1	81·9	81·6	81·7	82·5	83·3	85·0	84·6	84·7	84·3	84·7	84·0	83·4	83·1	82·6	81·9	81·8	81·3	82·0	81·6	81·2	82·8
30	81·1	81·2	81·3	81·3	81·5	81·4	81·8	82·0	82·3	83·0	82·7	82·9	82·7	83·2	83·1	82·9	82·9	83·3	83·2	83·1	83·9	84·0	84·0	83·7	82·6
Mean ...	79·73	79·54	79·31	79·01	78·89	**78·81**	79·81	81·48	83·25	84·44	85·19	85·53	85·59	**85·87**	85·34	84·96	84·53	83·59	82·44	81·74	81·47	81·10	80·73	80·21	82·19

191. Eskdalemuir : Louvred Hut : h_t = 0·9 metres. **October, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	83·8	83·6	83·4	83·1	82·8	82·3	82·1	82·7	83·7	83·8	83·8	84·7	83·8	83·4	83·2	83·8	84·2	84·7	85·1	85·8	86·1	86·3	86·8	86·9	84·1
2	87·0	86·9	87·0	87·1	87·3	87·1	87·6	84·9	84·3	83·9	85·1	85·2	86·8	85·5	82·8	82·1	82·7	82·0	82·2	81·7	81·6	82·0	81·7	81·8	84·5
3	82·5	82·7	82·6	82·3	82·1	82·0	81·9	82·5	84·0	84·2	84·4	85·9	86·2	86·5	86·1	85·0	83·7	82·8	82·9	82·9	83·6	83·6	84·0	84·0	83·6
4	83·3	82·7	84·3	85·0	85·7	86·0	86·0	86·2	86·6	87·7	87·8	88·8	88·3	88·1	87·8	87·2	86·8	86·5	86·2	86·0	86·1	86·1	86·5	87·1	86·3
5	86·8	86·3	86·3	86·9	87·1	86·8	86·5	86·4	86·4	86·8	86·6	86·9	86·4	86·2	86·1	86·5	86·2	86·1	86·0	85·9	85·7	85·4	85·2	85·3	**86·3**
6	85·2	85·1	85·1	84·9	84·9	84·9	84·8	84·9	84·8	84·8	85·0	85·0	84·9	85·0	85·1	85·1	85·2	85·2	85·3	85·2	85·1	84·0	83·0	82·1	84·8
7	82·0	81·4	80·6	79·8	79·3	78·4	78·9	80·0	80·8	81·0	83·2	83·0	83·1	82·7	81·9	81·0	81·0	80·6	80·0	79·9	80·6	79·9	80·1	79·6	80·8
8	80·3	80·4	80·3	80·7	80·6	80·9	80·9	81·3	82·4	82·3	83·3	84·1	84·9	86·0	86·4	86·4	85·8	85·5	85·7	85·6	85·2	85·4	85·5	84·9	83·4
9	85·0	85·0	85·0	85·0	85·0	85·0	85·0	85·0	84·9	84·9	85·0	85·1	85·1	85·1	85·1	83·9	84·9	84·9	84·1	83·7	83·4	83·1	81·7	82·0	84·5
10	81·0	81·0	79·5	80·9	79·0	78·8	78·3	79·9	82·8	84·0	85·0	86·0	85·1	86·2	85·7	84·8	83·8	83·0	82·7	82·9	83·0	83·1	83·3	83·8	82·6
11	83·4	82·4	82·2	82·2	82·8	82·9	83·1	83·4	83·9	84·0	84·7	84·8	84·8	84·2	84·3	83·5	83·3	82·9	82·6	82·0	79·9	79·8	80·4	80·3	82·9
12	80·7	80·7	80·7	80·8	81·0	83·4	83·3	83·2	83·3	83·5	84·0	84·0	84·2	83·3	83·5	83·6	83·9	83·9	83·9	81·7	81·2	80·7	80·7	80·8	82·5
13	80·7	79·3	79·6	79·1	80·0	80·1	78·9	79·9	82·7	84·0	83·8	84·0	85·9	84·3	84·0	82·7	84·7	80·3	79·9	79·0	79·6	80·9	81·1	81·0	81·3
14	80·0	80·0	80·4	80·1	80·2	80·0	81·0	81·9	82·9	83·1	83·9	85·9	85·1	85·2	85·1	84·9	83·1	81·4	80·0	78·4	77·0	76·1	75·4	75·0	81·2
15	74·8	74·0	73·7	73·3	73·7	74·3	74·9	76·5	78·0	79·7	83·0	85·7	86·1	85·9	85·0	85·1	81·6	80·0	78·0	76·9	75·9	76·0	74·6	74·5	78·4
16	74·2	73·9	73·9	73·1	73·4	72·8	73·0	74·0	77·0	81·2	84·8	86·7	87·6	88·2	88·5	87·3	84·9	81·1	79·2	78·5	77·7	78·3	77·0	76·9	79·3
17	77·0	76·8	76·7	76·9	77·9	81·0	81·1	82·0	84·0	86·3	88·2	87·9	86·7	84·8	82·8	82·1	81·9	82·0	81·8	81·0	80·9	81·1	81·1	80·2	81·7
18	80·1	80·4	80·1	80·2	80·5	80·7	80·7	81·7	81·9	81·5	81·2	81·4	81·3	81·7	81·7	81·4	81·2	81·1	80·9	80·9	80·8	80·5	79·9	79·6	80·9
19	79·2	79·0	79·0	78·9	79·9	79·7	79·7	80·0	80·7	82·1	82·5	82·9	82·7	82·8	82·3	82·0	81·9	81·7	81·8	81·7	82·2	82·1	82·1	82·0	81·2
20	82·0	82·0	81·8	81·3	77·7	76·0	74·9	75·7	77·3	78·1	80·0	80·7	81·0	80·7	80·1	80·1	77·1	76·0	75·7	75·2	75·0	75·4	75·9	75·7	78·3
21	74·6	74·0	72·5	72·9	72·7	73·8	72·1	74·0	76·8	77·6	78·3	78·8	78·0	78·3	78·8	78·1	75·5	73·2	71·5	70·0	69·3	69·8	68·4	68·1	74·2
22	67·1	66·8	66·4	66·0	65·7	65·3	65·1	67·0	70·6	77·3	78·8	78·2	78·3	78·1	79·2	78·6	76·0	75·7	74·9	74·3	72·8	71·9	71·7	71·2	72·3
23	70·2	69·8	69·0	68·1	67·9	67·9	67·9	69·7	72·0	75·4	78·7	80·0	81·1	81·1	80·7	80·2	79·5	79·2	79·0	78·3	77·7	77·0	76·4	75·0	75·0
24	74·7	74·2	73·9	74·6	73·9	74·2	74·8	75·4	76·1	77·0	77·3	77·4	77·2	77·2	76·8	75·6	74·3	73·5	73·0	72·8	72·9	71·7	71·5	71·9	74·7
25	71·1	72·9	72·3	72·0	72·0	71·4	71·2	72·5	75·0	75·7	76·7	77·0	77·1	77·0	76·9	75·7	71·3	70·6	69·3	68·7	66·3	65·9	66·3	66·2	**72·2**
26	67·0	67·7	68·3	69·1	69·8	70·7	71·3	72·0	74·3	76·3	79·0	79·0	79·9	80·1	80·3	78·9	77·9	76·9	75·4	74·8	76·0	76·2	75·0	74·4	74·4
27	74·1	74·6	75·8	76·8	78·7	78·3	78·9	79·1	79·0	80·2	80·3	80·9	81·0	81·0	81·3	81·6	81·5	81·6	81·7	81·9	82·0	81·9	81·4	79·9	79·6
28	79·3	79·3	80·4	78·4	79·3	78·8	78·5	78·0	78·9	79·7	80·7	81·0	81·0	81·9	81·2	79·4	77·8	78·0	76·2	77·1	77·0	76·1	73·9	73·7	78·7
29	73·4	72·4	71·9	71·6	71·5	71·0	71·1	72·0	72·7	74·0	75·2	77·7	78·2	78·0	77·1	77·0	76·4	76·0	75·9	75·4	75·2	75·2	75·6	76·1	74·6
30	76·2	75·7	75·2	75·0	74·1	73·0	72·2	72·9	74·3	75·2	76·0	76·6	76·9	77·1	74·8	73·7	72·6	70·5	69·3	68·9	69·3	68·9	68·9	69·1	73·3
31	68·8	69·4	70·0	70·2	70·7	71·0	71·5	72·1	73·3	74·4	74·9	75·9	76·5	77·0	76·8	77·5	78·9	80·1	80·0	80·1	81·2	81·0	81·1	82·0	75·3
Mean ...	78·24	78·08	78·00	**78·95**	77·97	78·02	77·97	78·61	79·85	80·96	81·97	82·62	**82·75**	82·66	82·30	81·77	80·85	80·23	79·68	79·26	79·04	78·88	78·59	78·42	79·78
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is printed 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

192. Eskdalemuir : Louvred Hut : h_t (height of thermometer bulb above ground) = 0·9 metres. **November, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	82·7	82·7	82·7	82·7	82·7	82·2	82·0	82·1	82·4	82·6	82·7	82·8	82·9	82·7	82·2	82·1	82·1	82·1	82·0	82·2	82·2	82·2	82·2	82·1	82·4
2	82·3	81·7	82·0	81·9	81·8	81·9	81·4	81·0	80·8	81·4	81·5	81·0	82·0	82·2	82·0	82·0	82·3	82·7	83·1	83·5	84·0	84·2	84·4	84·6	82·3
3	84·5	84·5	84·8	84·9	84·9	85·0	85·1	84·8	84·5	85·0	85·1	85·0	84·7	84·0	84·6	83·6	82·9	82·2	82·3	82·8	83·4	84·2	84·5	84·5	**84·2**
4	83·9	82·8	82·0	85·2	85·1	83·3	83·0	82·7	83·1	83·0	82·9	82·9	83·4	82·4	82·4	82·0	81·9	81·1	80·9	80·3	79·9	77·8	77·5	76·4	82·1
5	77·1	75·8	74·9	75·3	76·2	76·3	76·6	77·3	79·2	79·8	80·0	80·9	81·3	81·6	81·5	80·8	80·0	78·6	77·0	76·1	77·8	78·9	79·7	80·0	78·4
6	79·7	80·1	80·0	79·9	79·8	79·9	80·1	80·3	81·3	82·8	83·3	83·6	83·7	83·7	82·9	82·9	82·9	82·9	82·2	81·3	81·1	80·8	80·0	80·1	81·5
7	80·4	80·4	80·5	80·5	80·4	80·3	80·2	80·1	80·1	80·2	80·3	80·3	80·3	80·6	80·4	80·3	79·9	79·8	79·4	79·0	79·1	78·9	78·8	78·6	80·0
8	78·2	77·7	77·4	77·9	77·9	78·7	79·6	79·8	79·9	80·1	80·8	81·8	83·1	82·0	81·6	81·6	81·1	81·1	81·1	81·0	81·0	80·8	80·4	80·1	80·2
9	79·9	79·9	79·9	79·6	79·9	79·7	79·7	80·1	80·3	80·9	80·9	80·6	80·7	80·9	80·7	79·2	78·8	79·1	79·2	79·3	79·1	78·6	78·3	77·1	79·7
10	77·0	77·1	77·9	78·2	78·9	78·9	78·7	78·6	79·3	79·9	80·7	81·0	80·9	80·7	80·8	80·8	80·5	80·3	80·9	80·8	81·0	80·5	80·1	79·9	79·7
11	79·8	79·7	79·8	79·8	79·5	79·2	79·2	79·1	79·2	79·6	80·0	80·8	80·9	80·8	80·5	80·3	79·9	79·3	79·3	78·7	79·1	79·0	77·6	78·3	79·6
12	78·7	79·0	79·7	79·8	79·9	80·0	79·3	78·8	79·2	81·1	81·9	80·3	81·4	82·2	81·8	81·1	80·7	80·1	79·9	80·9	80·2	79·0	79·4	79·8	80·2
13	78·2	77·3	77·0	76·8	77·0	76·7	77·3	76·3	77·0	77·9	79·3	80·2	80·9	80·8	80·5	79·0	77·9	77·5	77·1	77·1	77·7	77·7	77·7	78·6	78·1
14	78·8	78·1	78·1	77·8	77·9	78·2	78·3	78·8	79·0	79·1	79·2	79·2	79·3	79·3	79·2	79·0	78·7	78·5	78·3	78·2	78·0	77·9	77·7	77·5	78·5
15	77·2	77·1	77·2	77·3	77·6	77·7	77·8	77·9	77·9	78·8	79·8	79·3	79·8	79·8	79·2	79·3	79·0	79·1	79·1	79·1	79·2	79·3	79·1	79·1	78·6
16	78·7	78·0	76·1	75·1	74·1	73·9	73·5	72·9	73·9	75·9	76·4	77·9	79·2	79·4	79·2	78·9	77·9	77·0	75·7	75·6	74·9	74·2	73·6	72·8	76·2
17	72·6	72·9	73·8	74·2	75·2	75·8	75·9	75·8	75·9	77·0	77·4	78·5	78·7	78·7	78·2	77·7	77·5	77·3	77·1	77·1	77·0	77·0	76·9	76·8	76·4
18	76·7	76·9	77·1	77·2	77·1	77·0	77·1	77·2	77·1	77·0	76·9	76·9	77·0	77·2	77·2	77·3	77·2	77·2	77·2	77·1	77·2	77·0	77·0	76·7	77·1
19	76·5	76·5	76·2	76·0	75·7	75·2	74·7	74·3	74·8	75·7	77·7	78·0	78·9	79·0	79·2	79·3	78·8	78·9	78·3	79·0	79·1	79·2	79·0	79·1	77·4
20	78·7	78·6	78·1	78·3	78·5	78·4	78·2	78·1	78·3	79·3	79·3	79·9	80·5	80·2	80·1	80·1	79·9	79·7	79·0	78·2	78·6	78·9	78·9	79·0	79·0
21	78·6	77·7	77·2	77·1	76·9	75·2	76·3	76·6	76·7	76·7	78·3	78·8	79·1	79·8	78·9	77·0	76·3	75·0	76·6	75·0	74·2	73·6	72·2	71·5	76·6
22	71·2	70·8	70·5	70·2	69·9	70·4	71·4	71·6	72·3	73·9	75·0	75·3	76·1	76·7	76·3	75·2	75·9	76·0	76·1	76·3	76·7	76·9	77·2	77·9	74·0
23	78·2	78·3	78·1	78·3	78·3	78·3	78·6	78·7	79·0	79·1	79·2	79·5	79·9	79·9	80·0	80·1	80·2	80·5	80·7	80·8	81·0	81·2	81·4	81·7	79·5
24	81·7	82·0	80·9	80·0	78·1	77·7	76·9	76·5	77·4	78·7	78·6	78·9	79·6	79·9	79·4	79·0	79·8	80·1	80·7	81·0	81·3	81·7	81·9	82·2	79·7
25	82·0	81·0	81·1	81·3	81·2	80·4	80·9	80·7	80·7	81·6	81·8	82·1	82·2	82·0	81·8	81·2	80·7	81·3	81·2	81·4	81·9	81·9	81·3	81·1	81·4
26	80·6	80·3	79·8	79·6	79·7	80·0	80·2	80·4	81·0	81·7	82·1	82·9	82·9	83·0	82·9	82·1	80·4	79·1	79·0	78·7	78·3	78·1	77·9	77·9	80·4
27	77·8	77·8	77·8	77·3	76·5	75·7	75·9	76·4	76·9	77·7	77·7	77·7	77·3	77·1	77·1	77·0	77·2	77·7	77·4	77·3	77·2	77·7	77·6	77·2	77·2
28	77·4	77·8	77·9	77·4	78·4	79·1	78·9	78·8	79·1	79·9	80·1	80·8	81·1	80·9	80·4	80·2	80·3	80·3	79·9	78·6	77·4	78·2	77·2	77·1	79·1
29	77·9	78·2	78·3	78·3	78·3	78·3	78·1	78·0	78·0	78·1	78·2	78·3	78·5	78·6	78·7	78·6	78·5	78·0	76·8	77·0	76·1	75·7	75·4	74·2	77·7
30	73·8	73·9	73·8	73·1	73·0	72·9	72·9	72·6	72·3	72·7	74·8	76·7	77·0	77·0	75·8	75·0	74·7	74·0	73·2	72·6	72·1	71·9	71·2	71·0	**73·7**
Mean ...	78·69	78·49	78·35	78·37	78·35	**78·21**	78·26	**78·21**	78·55	79·24	79·73	80·12	**80·44**	80·44	80·18	79·76	79·46	79·22	79·02	78·87	78·86	78·77	78·54	78·43	79·03

193. Eskdalemuir : Louvred Hut : h_t = 0·9 metres. **December, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	70·9	71·3	71·8	72·1	72·7	73·0	73·3	74·1	75·1	75·9	75·9	76·0	76·9	77·9	78·2	78·6	79·0	79·2	79·3	79·4	79·7	79·8	79·9	79·8	76·1
2	79·8	79·5	79·2	79·0	78·9	78·8	78·5	78·5	78·1	78·1	77·9	77·9	77·9	79·1	79·3	79·7	79·0	78·0	80·0	80·0	80·3	80·5	80·6	80·5	79·0
3	80·3	80·3	80·4	80·0	79·9	79·8	79·6	81·2	80·1	80·4	80·3	80·0	79·9	80·0	80·7	80·3	80·2	80·1	80·0	80·0	80·0	79·7	79·0	79·3	80·1
4	79·9	79·9	79·0	78·9	78·9	78·7	78·9	79·3	80·8	81·1	81·1	80·6	79·8	79·3	79·0	78·5	79·3	79·9	79·0	79·0	79·0	78·3	78·2	79·0	79·4
5	78·7	78·1	78·0	77·4	76·7	77·0	76·9	77·2	77·2	77·4	78·1	78·8	78·8	79·5	79·0	77·9	77·2	77·2	77·2	77·1	77·2	77·2	77·1	77·1	77·7
6	77·2	76·8	76·4	75·3	74·8	74·8	74·8	75·4	75·6	75·9	76·3	77·8	78·5	78·3	77·0	76·4	76·0	75·8	75·7	75·8	75·7	76·0	75·9	76·1	76·2
7	75·2	76·0	76·1	75·3	76·0	77·0	75·9	76·0	75·9	76·3	76·5	76·9	77·9	79·0	78·6	78·4	78·2	78·1	78·3	78·6	78·9	78·9	79·0	79·1	77·3
8	79·8	79·8	79·0	79·0	78·6	78·3	77·9	77·7	78·1	78·9	79·0	78·9	79·1	79·0	78·7	78·5	78·0	78·1	78·0	78·0	78·2	78·3	78·0	78·3	78·6
9	78·3	78·6	78·1	78·0	78·7	79·0	79·1	79·1	79·2	79·3	80·2	80·7	80·6	80·7	80·9	81·0	80·9	80·9	81·0	81·0	80·9	81·0	80·8	81·0	79·9
10	81·6	81·6	82·3	83·2	83·2	83·0	82·8	82·7	82·4	82·7	82·8	83·1	83·9	83·4	83·3	82·9	82·3	82·4	83·0	82·9	83·1	82·9	82·5	81·8	**82·7**
11	81·4	81·6	81·0	81·0	81·1	81·2	81·0	80·4	80·9	81·1	81·3	81·3	81·1	81·0	80·7	80·2	80·1	80·1	80·0	80·0	80·0	79·7	79·2	79·4	80·7
12	79·4	79·8	79·6	80·7	81·9	82·2	81·9	81·9	81·9	83·1	83·3	82·9	82·3	81·9	81·8	81·0	80·4	79·7	79·4	79·1	79·0	79·0	79·0	79·2	80·9
13	79·0	79·3	79·6	79·0	78·9	78·8	78·7	78·3	78·0	77·7	78·0	78·0	77·6	77·1	76·9	76·8	76·7	76·2	76·0	76·3	76·7	77·2	77·6	78·3	77·8
14	79·1	79·3	79·6	79·7	79·8	79·9	80·0	80·2	80·2	80·7	81·1	81·5	81·5	81·8	81·8	81·6	81·8	81·3	81·6	81·8	81·9	82·0	81·9	81·7	80·8
15	81·7	81·8	81·9	81·8	81·8	78·6	77·4	77·3	77·3	77·6	77·9	77·6	77·7	77·7	76·9	75·2	74·7	75·8	75·9	75·0	74·3	73·7	73·5	72·8	77·5
16	71·7	71·7	71·0	71·0	72·0	71·9	72·8	73·3	73·1	73·7	74·2	74·6	74·9	75·0	75·0	74·5	74·4	74·7	74·7	74·7	74·7	74·7	74·7	74·8	73·6
17	74·8	74·8	74·9	74·9	75·0	75·0	74·1	73·3	73·8	74·2	75·0	75·9	76·7	76·9	75·0	73·8	73·9	73·8	73·6	72·7	72·1	72·7	72·3	72·2	74·3
18	71·0	70·0	69·9	69·8	69·1	68·1	68·2	68·0	68·1	69·5	70·9	71·7	72·3	73·6	73·5	74·0	74·0	74·2	74·1	74·4	74·5	74·6	75·0	75·2	71·8
19	75·5	76·2	76·3	76·2	76·6	76·4	76·5	76·6	76·6	76·9	77·1	77·2	77·2	77·2	77·2	77·1	77·0	77·0	76·9	76·9	76·9	77·0	77·1	77·2	76·7
20	77·5	77·3	77·2	77·1	77·2	77·2	77·2	77·3	77·4	77·6	77·5	77·7	77·8	77·8	77·6	76·9	74·8	74·8	74·8	75·1	76·2	74·9	74·2	73·4	76·6
21	74·4	75·2	75·6	75·9	76·0	76·0	76·5	76·5	76·5	76·8	76·9	77·1	77·3	77·4	76·5	75·1	75·2	75·8	75·8	75·8	76·2	76·2	74·9	73·7	76·0
22	73·0	72·2	72·2	73·0	73·3	74·0	73·8	73·8	73·9	73·9	74·0	74·0	74·5	74·5	74·8	74·7	74·3	74·0	73·9	74·0	74·0	74·1	74·3	75·6	73·9
23	75·0	75·9	77·0	77·1	77·3	77·3	78·2	78·4	78·6	78·9	79·0	79·3	79·5	79·8	79·9	79·9	79·7	79·7	79·6	79·7	79·9	80·1	80·3	80·8	78·7
24	81·0	81·3	81·6	81·9	82·0	82·3	82·5	82·8	82·1	82·4	82·2	83·1	82·9	83·0	83·0	83·1	83·7	83·3	82·6	81·6	81·1	80·3	79·8	79·8	82·1
25	79·6	79·7	79·9	79·1	79·1	79·0	78·0	79·0	79·1	79·0	79·2	79·9	79·9	79·5	79·5	79·2	78·9	78·9	78·7	78·4	78·5	78·3	77·9	78·0	79·1
26	77·9	78·0	78·7	79·3	79·5	80·5	81·9	82·0	81·9	81·9	82·0	82·1	82·1	83·5	83·5	83·0	82·7	82·0	82·0	82·1	82·2	82·5	82·7	82·6	81·4
27	82·2	82·0	82·1	82·0	82·1	82·0	81·9	81·8	81·6	81·5	81·5	81·2	81·9	81·2	80·9	80·9	80·7	80·8	80·5	81·6	82·2	82·2	81·6	81·5	81·6
28	80·6	79·4	78·0	77·1	76·0	75·5	74·8	74·9	74·7	74·6	76·0	74·9	74·1	73·8	73·0	72·3	71·9	73·0	72·9	73·3	73·5	73·3	73·0	72·0	74·9
29	72·0	71·2	72·1	71·9	72·0	72·1	72·7	72·8	73·3	74·0	74·3	74·1	74·4	74·3	74·0	74·0	74·0	74·0	74·1	74·0	74·0	73·6	73·0	71·7	73·3
30	72·8	72·3	72·7	72·8	73·0	72·7	72·8	72·7	72·3	72·9	73·1	73·0	72·9	72·3	71·7	71·0	71·1	70·9	69·4	68·5	69·0	68·1	67·6	67·8	71·5
31	69·2	68·3	68·7	67·9	68·9	70·1	70·1	69·7	71·0	70·3	70·5	70·9	71·0	71·0	70·6	69·2	68·0	67·8	67·5	67·9	69·0	70·1	72·4	72·4	**69·6**
Mean ...	77·11	77·07	77·09	**77·01**	77·13	77·10	77·05	77·17	77·25	77·56	77·84	78·02	78·16	**78·27**	78·01	77·60	77·36	77·34	77·22	77·25	77·38	77·32	77·19	77·20	77·40
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is printed 75·0.

TEMPERATURE: ANNUAL MEANS OF HOURLY VALUES.

From readings in degrees absolute at exact hours, Greenwich Mean Time.

194. Eskdalemuir: Louvred Hut: $h_t = 0·9$ metres. **1931.**

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
78·05	77·95	77·90	**77·79**	77·81	77·99	78·45	79·16	80·00	80·74	81·34	81·81	82·11	**82·24**	82·11	81·79	81·23	80·66	79·99	79·42	79·02	78·70	78·43	78·24	79·70

TEMPERATURE: MONTHLY MEANS AND DIURNAL INEQUALITIES.

The departures from the mean of the day are adjusted for non-cyclic change.

195. Eskdalemuir: Louvred Hut: $h_t = 0·9$ metres. **1931.**

Month	Mean	Hour 1.	G.M.T. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22	23.	24.
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
Jan.	**274·16**	−0·73	−0·47	−0·43	−0·45	−0·59	−0·79	**−0·87**	−0·86	−0·69	+0·05	+0·63	+1·27	+1·68	**+1·80**	+1·71	+1·11	+0·65	+0·34	−0·04	−0·38	−0·57	−0·77	−0·77	−0·82
Feb.	274·75	−0·27	−0·42	−0·59	−0·68	−0·75	−0·76	**−0·96**	−0·77	−0·36	+0·07	+0·43	+0·78	+1·06	**+1·22**	+1·21	+1·03	+0·55	+0·25	+0·05	−0·07	−0·23	−0·29	−0·25	−0·24
Mar.	274·70	−1·97	−2·05	−1·97	−2·13	**−2·14**	−2·09	−2·13	−1·19	−0·00	+1·14	+2·07	+2·69	+2·98	+3·25	**+3·26**	+2·95	+2·20	+1·08	−0·03	−0·05	−1·03	−1·20	−1·45	−1·71
April	278·22	−2·38	−2·63	**−2·72**	−2·64	−2·64	−2·40	−1·38	−0·22	+1·02	+1·95	+2·40	+2·63	+3·18	+3·13	**+3·18**	+2·79	+1·97	+1·42	+0·31	−0·51	−0·92	−1·50	−1·87	−2·18
May	281·73	−2·97	−3·05	−3·04	**−3·18**	−3·05	−2·18	−0·94	+0·15	+1·12	+1·80	+2·30	+2·98	+3·11	+3·17	**+3·42**	+3·11	+2·61	+1·91	+1·06	−0·12	−1·19	−1·94	−2·45	−2·64
June	283·49	−2·27	−2·39	−2·49	**−2·62**	−2·26	−1·62	−0·83	−0·26	+0·54	+1·03	+1·48	+2·16	+2·64	**+2·92**	+2·91	+2·64	+2·09	+1·39	+0·67	−0·05	−0·82	−1·24	−1·70	−1·91
July	**285·86**	−1·88	**−1·95**	−1·65	−1·95	−1·80	−1·34	−0·62	+0·13	+0·78	+1·17	+1·60	+1·89	+2·10	**+2·18**	+1·84	+2·08	+1·46	+0·93	+0·46	−0·19	−0·83	−1·19	−1·51	−1·71
Aug.	284·80	−2·51	−2·72	−2·88	−3·08	**−3·24**	−2·97	−1·90	−0·58	+0·62	+1·36	+2·32	+2·84	+3·42	**+3·81**	+3·79	+3·51	+2·82	+2·01	+0·81	−0·39	−1·06	−1·71	−2·00	−2·27
Sept.	282·19	−2·34	−2·54	−2·78	−3·08	−3·22	**−3·31**	−2·32	−0·66	+1·09	+2·28	+3·01	+3·35	+3·40	**+3·66**	+3·12	+2·73	+2·29	+1·34	+0·18	−0·53	−0·81	−1·19	−1·57	−2·10
Oct.	279·78	−1·56	−1·73	−1·80	**−1·85**	−1·82	−1·78	−1·82	−1·18	−0·07	+1·17	+2·19	+2·84	**+2·97**	+2·89	+2·53	+2·00	+1·08	+0·46	−0·08	−0·50	−0·72	−0·87	−1·17	−1·33
Nov.	279·03	−0·51	−0·70	−0·82	−0·79	−0·79	**−0·91**	−0·85	−0·88	−0·52	+0·18	+0·68	+1·09	+1·43	**+1·44**	+1·20	+0·79	+0·51	+0·28	+0·10	−0·04	−0·03	−0·11	−0·33	−0·42
Dec.	277·40	−0·27	−0·31	−0·29	**−0·38**	−0·26	−0·29	−0·34	−0·23	−0·15	+0·16	+0·44	+0·62	+0·75	**+0·87**	+0·60	+0·19	−0·06	−0·08	−0·20	−0·17	−0·04	−0·11	−0·23	−0·22
Year	279·70	−1·65	−1·75	−1·79	**+1·91**	−1·88	−1·71	−1·25	−0·55	+0·30	+1·03	+1·64	+2·10	+2·40	**+2·54**	+2·40	+2·08	+1·52	+1·95	+0·28	−0·29	−0·69	−1·02	−1·28	−1·47

ABSOLUTE EXTREMES OF TEMPERATURE FOR EACH DAY.

Maximum and minimum for the interval 0 h. to 24 h., Greenwich Mean Time.

196. Eskdalemuir: Louvred Hut: $h_t = 0·9$ metres. **1931.**

Month	Jan.		Feb.		Mar.		April.		May.		June.	
Day.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	72·9	64·4	76·2	70·7	74·1	68·3	81·0	70·1	82·3	72·2	85·2	80·0
2	77·0	70·6	77·2	71·6	75·5	**60·9**	75·1	73·3	83·0	71·0	81·8	77·4
3	74·1	71·1	75·6	73·0	73·9	70·8	79 0	70·2	85·5	**69·7**	80·9	77·4
4	76 0	68·4	73·2	71·8	76·3	71·8	82·3	69·8	85·3	73·3	91·3	79·8
5	74·6	66·5	74·8	71·5	75·5	71·4	82·7	70·7	83·1	75·0	84·8	79·1
6	73·9	64·6	74·3	73·2	73·9	65·9	83·2	**66·3**	88·3	78·6	75·5	77·9
7	72·2	**63·4**	76·9	70·9	71·5	65·8	84·1	69·9	86·9	77·0	84·8	77·9
8	75·7	69·5	79·1	75·4	73·2	69·9	83·8	79·2	86·9	76·1	87·3	81·0
9	76·4	70·4	80·7	77·5	73·0	67·8	**88·2**	74·2	89·1	73·1	88·0	82·9
10	79·8	75·8	80·0	74·2	74·9	68·8	**88·2**	70·2	83·5	80·5	87·0	83·7
11	80·9	75·0	78·6	72·7	76·8	69·3	87·2	78·7	85·4	79·0	88·9	78·0
12	77·0	73·2	76·8	72·3	77·0	67·2	83·1	75·0	84·1	78·0	89·7	78·1
13	74·8	67·7	75·9	71·4	76·5	68·9	83·1	73·8	83·2	79·9	91·7	75·2
14	78·5	65·9	76·8	71·2	75·5	72·1	85·1	78·7	84·0	80·9	90·2	85·0
15	81·3	79·1	78·0	73·6	78·5	71·8	81·1	77·0	85·8	78·0	86·9	81·7
16	**82·5**	74·7	75·2	70·8	80·0	72·4	81·1	74·4	87·7	77·9	88·7	83·2
17	76·9	73·8	75·1	72·7	79·1	70·7	81·7	74·1	86·1	76·8	88·0	81·6
18	75·1	73·1	74·8	72·7	83·0	69·1	79·2	73·9	87·3	78·2	85·9	79·9
19	81·6	73·0	76·7	71·0	87·8	73·3	81·4	73·5	84·2	73·6	86·8	76·7
20	80·3	73·0	80·5	73·8	**89·4**	79·8	81·2	72·6	84·1	71·6	87·7	75·9
21	77·5	73·9	74·3	71·6	83·2	78·8	82·5	71·0	86·3	70·6	**92·1**	82·6
22	78·1	73·0	76·6	71·7	81·4	77·8	83·0	76·5	82·8	74·8	88·7	82·0
23	79·8	75·3	77·9	71·0	79·9	75·7	82·2	76·0	87·7	79·7	87·8	80·8
24	78·0	73·5	81·9	**66·7**	78·9	73·9	83·9	78·3	84·7	81·9	86·9	78·5
25	75·6	72·7	**83·1**	80·6	83·7	71·0	82·3	77·8	87·1	82·0	90·2	**73·3**
26	77·2	72·2	81·8	73·7	86·6	68·4	79·9	77·1	88·5	77·7	88·2	75·5
27	75·6	66·1	76·1	72·6	87·0	67·7	82·6	75·4	**93·7**	76·6	91·1	84·9
28	76·3	73·3	74·4	67 8	77 3	69 9	83 0	75 0	87 8	81 8	90 1	82·2
29	75·0	72·7	—	—	79·8	68·7	85·2	73·8	91·3	78·0	87·9	75·5
30	74·1	67·0	—	—	76·4	72·9	84·2	72·5	92·0	82·4	87·0	74·2
31	74·3	69·0	—	—	81·5	71·7	—	—	86·1	82·0	—	—
Mean	76·87	71·03	77·23	72·42	78·75	70·73	82·69	73·97	86·25	77·03	87·50	79·53

Month	July.		Aug.		Sept.		Oct.		Nov.		Dec.	
Day.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	87·1	82·1	92·0	83·9	89·9	72·5	86·9	82·0	83·0	81·9	79·9	70·8
2	87·8	83·3	90·0	83·2	85·1	80·7	87·6	81·5	84·7	80·7	80·7	77·3
3	86·4	83·1	91·8	83·5	84·5	80·8	87·1	81·0	85·2	82·1	81·3	78 6
4	89·4	84·0	93·1	83·0	84·0	80·6	**89·2**	82·5	**85·6**	76·4	81·2	78·0
5	90·7	81·0	93·4	81·7	86·1	76·9	87·6	85·2	82·8	74·7	79·7	76·4
6	90·7	79·8	**96·1**	85·7	85·9	75·7	85·4	82·1	83·7	79·6	78·7	74·7
7	91·4	83·5	89·0	83·1	86·2	74·3	83·7	78·1	80·6	78·6	79·2	75·0
8	87·8	82·9	87·8	78·8	87·0	71·7	86·5	79·7	83·2	77·3	79·9	77·7
9	**94·2**	84·2	88·6	77·1	85·3	74·7	85·1	81·6	80·9	77·1	81·2	77·5
10	87·1	84·5	86·3	78·3	85·1	71·9	86·7	77·1	81·1	76·6	**84·0**	81·0
11	92·1	84·0	87·7	78·3	84·9	**68·7**	85·1	79·2	81·0	77·0	82·5	79·1
12	91·1	84·9	93·0	79·2	84·4	72·7	84·3	80·3	82·7	78·2	83·6	78·9
13	89·5	81·9	88·5	83·5	86·8	69·3	86·1	78·4	81·3	75·6	79·7	76·0
14	89·7	81·8	89·0	82·2	87·2	81·5	86·1	74·6	79·4	77·5	82·0	78·3
15	91·0	81·9	87·6	82·5	91·3	82·7	86·5	73·0	80·1	77·1	82·0	72·8
16	90·3	81·0	91·8	82·5	87·8	81·7	88·6	72·5	79·7	72·4	75·1	70·6
17	87·4	83·9	89·6	83·8	90·8	80·9	88·2	75·7	79·0	72·0	77·0	72·0
18	89·0	83·4	90·7	82·8	**92·3**	74·6	82·0	79·4	77·3	76·6	75·2	67·8
19	89·6	82·2	85·7	80·9	87·9	75·3	83·1	78·5	79·4	74·3	77·3	75·2
20	88·0	80·0	87·7	83·8	87·2	72·9	82·3	74·8	80·5	77·5	77·9	73·2
21	88·0	**79·0**	88·4	79·9	84·1	74·5	79·0	67·6	79·8	71·4	77·5	73·3
22	88·6	85·4	86·2	75·3	89·6	72·7	79·2	**64·8**	77·9	**69·8**	75·6	71·5
23	89·4	84·0	86·6	75·9	86·3	81·7	81·5	67·3	81·7	77·9	80·8	74·6
24	89·9	83·9	85·2	**74·8**	87·4	82·1	77·8	71·3	82·3	76·1	83·8	79·5
25	90·4	84·4	87·1	78·8	88·9	76·2	77·2	65·7	83·4	80·4	80·1	77·7
26	91·6	82·1	90·4	76·9	86·1	75·9	80·6	65·9	83·1	77·8	83·7	77·9
27	88·0	82·0	91·9	75·0	86·0	75·4	82·0	73·9	77·9	75·6	82·6	80·1
28	86·2	83·2	90·0	76·9	86·1	80·1	82·1	73·3	81·2	77·0	81·5	71·8
29	86·1	81·9	90·2	80·8	85·9	81·2	78·5	70·9	78·7	74·2	74·8	71·1
30	90·8	83·1	89·6	80·9	84·1	81·1	77·1	68·3	77·1	71·0	73·2	67·1
31	89·1	83·6	90·0	75·8	—	—	82·0	68·5	—	—	72·7	**66·9**
Mean	89·30	82·77	89·52	80·28	86·81	76·70	83·71	75·31	81·14	76·48	79·50	74·92

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Percentages at exact hours, Greenwich Mean Time.

197. Eskdalemuir : Louvred Hut : h_t (height of thermometer bulbs above ground) = 0·9 metres. **January, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	88	89	90	90	90	92	92	91	93	96	97	98	99	99	98	97	97	98	99	99	99	99	99	99	95·1	4·0
2	97	92	86	85	86	82	83	86	93	88	84	85	85	80	81	81	74	86	92	93	95	98	98	98	87·9	5·8
3	98	98	98	97	96	95	94	93	93	94	94	94	98	100	100	100	100	98	98	98	100	100	98	100	**97·2**	5·9
4	100	98	100	92	94	90	91	94	89	91	85	80	80	75	70	69	69	78	75	75	82	84	85	88	85·0	5·5
5	89	92	91	92	91	92	92	93	93	96	88	88	93	93	85	90	89	89	88	89	87	88	88	87	90·1	4·4
6	86	84	84	84	84	84	85	86	86	88	82	80	72	72	69	81	82	84	85	86	87	87	88	88	83·1	**3·3**
7	88	88	89	89	89	89	92	94	94	98	99	99	94	94	93	93	87	85	87	91	91	92	93	94	91·6	3·7
8	96	95	96	96	96	96	96	93	93	93	93	95	96	96	95	94	93	94	94	98	93	89	87	83	94·0	5·7
9	81	79	79	73	67	75	82	83	85	87	87	86	85	82	83	89	86	91	89	87	89	88	89	93	83·7	5·6
10	93	93	92	92	92	93	98	95	95	93	96	96	86	88	88	87	92	90	94	87	94	92	94	96	92·3	7·8
11	97	97	93	93	94	97	98	96	99	98	98	99	96	94	94	96	91	87	87	80	84	80	89	88	92·9	8·6
12	87	94	91	90	98	94	96	96	98	98	98	85	83	81	80	83	84	86	86	85	84	90	85	98	89·4	6·3
13	91	88	89	85	81	79	79	76	77	74	73	69	68	68	68	69	72	72	76	76	75	74	73	73	76·5	4·2
14	74	73	72	74	73	76	78	82	86	89	90	94	98	100	99	98	97	94	92	93	97	90	94	96	87·4	4·7
15	91	94	91	91	90	87	83	81	80	77	80	82	90	89	87	87	88	88	85	87	88	90	91	96	87·2	**8·8**
16	88	88	88	94	89	89	91	89	87	80	86	88	87	86	87	86	73	71	69	74	72	72	70	78	83·0	8·1
17	74	71	69	75	75	77	75	80	78	78	78	72	67	69	64	69	75	77	77	80	77	72	69	67	**73·8**	5·4
18	67	67	68	73	73	77	76	76	71	73	66	71	82	82	89	94	98	98	98	97	97	98	98	98	82·1	5·4
19	98	93	93	96	98	96	88	88	87	76	77	74	74	73	75	78	83	91	89	94	94	95	96	96	87·6	7·5
20	89	90	94	94	94	94	95	87	88	86	81	76	70	74	73	77	88	84	92	96	88	96	92	98	87·3	7·0
21	98	98	96	98	98	98	96	98	96	98	96	92	90	90	95	97	100	98	98	97	98	97	98	97	96·6	7·4
22	97	98	98	98	98	93	88	96	94	94	98	94	91	93	90	92	92	90	92	87	85	89	89	93	93·0	7·1
23	96	96	94	94	91	81	90	86	88	82	85	81	79	84	83	89	92	92	84	88	88	91	91	81	88·0	7·8
24	84	78	76	80	75	98	91	85	87	78	83	78	82	78	74	75	78	85	84	85	84	84	89	85	82·3	6·1
25	88	85	83	87	85	81	78	76	76	85	80	89	82	80	78	87	87	84	97	98	96	95	95	91	85·8	5·7
26	87	86	86	81	85	87	88	75	71	78	79	85	75	77	75	72	75	71	79	79	79	78	67	75	79·1	5·3
27	76	74	74	81	82	85	88	88	89	89	83	81	77	79	85	81	87	87	84	84	94	93	98	96	84·4	4·8
28	98	94	98	94	94	93	94	93	91	87	89	90	90	90	90	94	96	96	98	94	96	92	92	92	93·2	6·6
29	96	98	96	98	98	98	96	94	94	98	94	94	89	90	94	92	94	94	90	87	85	80	81	82	92·4	5·9
30	81	82	81	81	79	78	76	76	79	77	74	73	69	67	68	74	79	82	85	89	92	93	94	94	79·9	4·1
31	97	98	97	97	97	92	94	95	96	98	98	97	98	98	97	96	97	97	97	96	94	98	96	96	96·5	5·5
Mean ...	89·4	88·7	88·1	88·5	88·1	88·3	88·5	87·8	87·9	87·6	86·8	86·0	84·7	84·6	**84·1**	86·0	86·9	87·6	88·4	88·7	89·2	89·2	89·2	**90·2**	87·7	†5·9
Vapour Pressure* ...	mb. 5·6	mb. 5·6	mb. 5·6	mb. 5·7	mb. 5·6	mb. 5·5	mb. 5·5	mb. **5·5**	mb. 5·6	mb. 5·8	mb. 6·0	mb. 6·3	mb. 6·4	mb. **6·4**	mb. 6·3	mb. 6·2	mb. 6·1	mb. 6·0	mb. 5·9	mb. 5·8	mb. 5·7	mb. 5·7	mb. 5·7	mb. 5·7	mb. ‡5·8	

198. Eskdalemuir : Louvred Hut : h_t = 0·9 metres. **February, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	98	98	98	98	100	100	100	100	91	84	85	84	80	75	70	72	66	69	72	77	77	80	84	89	85·5	5·7
2	93	94	94	95	89	92	91	92	88	84	89	89	83	84	78	81	85	83	78	80	90	89	83	83	87·1	6·1
3	82	84	82	82	84	86	96	88	84	78	80	82	75	80	80	82	87	91	93	93	89	89	90	90	85·1	5·8
4	93	93	93	94	94	93	94	94	93	98	97	98	98	98	100	100	99	98	97	98	98	99	99	99	96·4	5·7
5	99	99	98	98	98	97	97	96	96	95	95	93	85	90	90	89	89	87	87	87	87	89	96	98	93·1	5·9
6	98	98	98	96	96	96	96	96	96	98	98	100	100	100	98	100	98	100	100	100	100	100	100	100	98·4	6·4
7	100	100	100	100	99	99	99	98	98	97	100	100	100	98	98	97	98	98	98	97	98	98	98	100	**98·7**	6·7
8	100	98	97	97	92	93	92	93	93	93	96	97	96	98	96	99	99	100	100	100	100	100	100	100	97·0	8·2
9	100	100	100	100	100	100	100	99	87	79	83	91	93	87	86	93	88	96	96	94	96	99	100	100	94·5	9·0
10	100	100	96	93	92	88	91	94	94	91	93	86	85	80	85	80	82	82	77	87	89	82	93	79	88·7	6·6
11	84	84	84	84	86	85	88	85	86	94	98	98	98	96	87	84	81	84	83	86	88	87	83	89	87·4	6·3
12	80	82	86	82	85	85	85	85	84	86	81	73	75	63	56	61	67	69	76	76	78	75	75	77	77·0	5·4
13	77	80	97	92	77	78	79	80	77	77	71	68	62	57	59	58	67	63	64	66	68	66	61	60	71·3	4·5
14	62	66	64	64	64	62	62	55	61	59	54	51	51	56	64	70	76	87	87	89	94	89	91	96	**69·0**	4·5
15	95	96	92	85	83	80	80	81	80	81	80	77	79	85	83	85	91	89	93	85	94	96	94	92	86·6	6·4
16	92	96	88	82	81	83	92	93	96	97	96	90	79	75	85	80	89	81	82	82	82	82	80	75	86·1	5·2
17	74	74	70	71	74	86	95	95	98	98	98	93	88	78	75	73	72	72	79	85	75	73	73	73	81·0	5·3
18	78	78	76	90	89	87	84	76	75	71	71	70	74	73	74	75	77	79	80	81	73	68	73	73	76·9	5·0
19	74	74	74	73	73	73	72	77	78	82	88	94	97	96	96	96	98	98	96	100	98	98	98	98	87·0	5·5
20	100	98	98	96	94	85	95	97	97	88	97	96	81	76	79	62	63	66	65	71	75	76	78	80	84·3	6·9
21	82	83	82	81	83	85	85	88	80	78	95	83	77	88	72	77	84	87	87	91	96	94	87	93	84·7	5·2
22	94	95	96	97	96	93	93	93	93	92	89	73	72	83	86	88	86	89	90	90	85	85	83	81	88·7	5·8
23	84	86	90	92	94	95	97	98	97	95	82	89	80	75	73	70	78	86	89	85	84	84	79	83	86·0	5·6
24	85	87	87	90	91	93	94	96	98	98	97	91	96	100	98	98	95	97	97	96	99	96	89	91	94·0	6·2
25	89	90	89	90	93	91	93	96	98	92	93	95	98	94	92	89	88	89	89	88	88	88	88	89	91·3	**10·3**
26	93	88	90	85	84	82	72	78	74	58	58	54	57	57	52	64	64	71	76	77	77	80	80	77	73·1	5·7
27	82	78	82	87	94	96	96	97	97	94	90	92	80	79	74	73	80	82	94	96	90	98	97	98	88·1	5·8
28	96	90	79	77	76	67	72	72	72	67	45	63	58	52	51	48	69	84	87	90	94	85	83	77	73·5	**3·9**
Mean ...	88·7	88·9	88·6	88·2	87·9	87·5	88·9	**89·0**	87·9	85·9	85·7	84·6	82·0	81·2	**79·9**	80·1	82·7	84·9	86·1	87·4	87·9	87·3	87·0	87·1	86·1	†6·1
Vapour Pressure* ...	mb. 6·1	mb. 6·0	mb. 5·9	mb. 5·8	mb. 5·8	mb. **5·7**	mb. 5·8	mb. 5·8	mb. 5·9	mb. 6·0	mb. 6·1	mb. **6·2**	mb. 6·1	mb. 6·1	mb. 6·0	mb. 6·0	mb. 5·9	mb. 6·0	mb. 6·0	mb. 6·0	mb. 6·0	mb. 5·9	mb. 5·9	mb. 5·9	mb. ‡6·0	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	

* Computed from the mean temperatures and the mean relative humidities. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

199. Eskdalemuir : Louvred Hut : h_t (height of thermometer bulbs above ground) = 0·9 metres. **March, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	83	88	72	62	63	61	63	72	94	89	80	69	62	59	54	49	46	53	53	63	65	68	68	69	67·0	3·7
2	72	80	82	85	85	86	87	89	86	78	73	73	65	66	64	67	72	82	85	80	77	79	82	85	78·0	3·5
3	86	90	90	94	94	94	92	92	92	90	88	88	87	88	89	91	93	95	95	95	93	91	88	84	90·8	5·2
4	85	80	81	74	77	77	77	77	64	63	59	57	58	60	61	60	59	64	68	69	68	68	69	71	68·8	4·3
5	74	75	75	77	77	77	77	77	73	71	64	61	61	58	57	58	71	74	73	70	69	70	71	70	70·0	4·3
6	75	69	69	69	68	72	69	63	70	56	49	46	54	50	48	60	73	74	75	77	77	77	77	84	66·4	**3·4**
7	89	92	93	91	90	90	90	88	86	82	87	81	76	81	73	93	85	92	92	91	85	93	97	90	87·7	3·8
8	92	92	92	94	85	75	79	80	74	65	77	81	86	80	79	83	85	88	90	90	88	88	88	83	84·0	4·5
9	79	86	85	91	89	88	91	91	86	72	66	68	71	66	81	78	79	81	83	86	89	90	88	85	82·0	3·9
10	84	84	84	87	87	87	84	81	72	68	69	75	75	73	75	77	79	89	84	82	79	78	79	87	79·9	4·9
11	82	80	77	77	74	73	74	66	71	67	66	58	62	58	62	63	62	68	67	65	68	72	77	80	69·7	4·5
12	75	70	69	71	70	71	70	63	61	58	56	52	48	48	46	58	61	63	69	73	81	86	88	92	66·4	3·8
13	92	93	95	99	99	99	98	96	96	94	94	95	94	96	94	94	94	94	96	90	91	88	90	92	94·3	6·1
14	91	93	93	95	96	96	95	94	92	98	82	84	82	82	80	82	82	87	91	92	94	94	95	95	90·2	5·8
15	94	94	96	96	96	96	94	95	94	98	98	93	92	92	94	94	95	98	98	96	96	96	100	98	95·5	6·6
16	98	96	96	96	95	94	94	90	91	83	73	66	63	59	60	62	70	77	71	74	73	74	75	76	79·9	5·7
17	78	78	81	81	81	84	84	82	77	72	69	68	66	60	63	61	72	80	76	84	88	89	88	91	76·9	5·2
18	92	93	92	94	96	94	97	98	92	75	65	46	48	50	51	52	63	67	75	80	82	82	84	89	77·4	5·7
19	89	89	89	91	89	90	96	98	90	79	72	65	54	53	50	53	61	70	83	80	82	84	83	86	78·2	8·2
20	91	93	96	91	88	89	93	89	84	74	66	62	61	56	53	56	65	63	75	82	86	89	82	77	77·7	10·0
21	79	82	84	87	93	92	93	93	95	88	91	98	95	93	94	96	98	98	98	99	99	98	99	100	92·9	**10·2**
22	97	99	99	98	98	98	98	96	100	99	99	99	100	100	100	100	99	99	100	100	100	100	100	100	**99·1**	9·2
23	100	96	90	90	88	95	93	92	86	84	88	88	88	88	85	82	79	79	80	85	82	80	74	80	86·7	7·4
24	77	72	73	76	74	74	69	68	65	76	73	68	69	66	59	69	66	76	80	87	89	91	89	86	74·5	5·6
25	88	86	94	87	92	87	85	81	76	66	57	58	54	53	48	41	58	72	69	75	87	91	94	96	74·6	6·1
26	93	86	78	78	74	77	77	76	57	45	51	48	33	32	33	32	38	47	57	68	69	76	82	85	62·4	5·0
27	90	91	92	93	94	94	95	96	95	67	48	38	33	35	45	35	45	61	72	79	80	89	89	86	72·6	5·9
28	80	80	83	87	90	90	93	93	94	95	91	91	91	85	74	75	70	75	69	68	68	67	67	74	81·5	5·8
29	78	81	78	77	74	75	76	67	63	59	47	27	23	24	19	35	50	54	67	90	95	96	97	96	64·0	4·3
30	91	86	79	80	89	91	89	88	90	86	85	84	80	78	75	76	71	67	69	77	77	80	80	79	81·5	5·5
31	79	76	79	81	81	82	81	78	69	57	56	49	46	38	36	35	40	56	68	73	74	75	74	73	**65·0**	5·0
Mean ...	**85·6**	85·5	85·0	85·5	85·4	85·4	**85·6**	84·2	81·8	75·9	72·2	68·9	67·0	65·4	**64·6**	66·7	70·4	75·6	78·3	81·3	82·3	83·8	84·3	85·1	78·6	†5·6
Vapour Pressure* ...	mb. 5·1	mb. 5·1	mb. 5·1	mb. 5·0	mb. **5·0**	mb. 5·1	mb. 5·1	mb. 5·3	mb. 5·7	mb. 5·7	mb. **5·8**	mb. 5·8	mb. 5·7	mb. 5·7	mb. 5·6	mb. 5·7	mb. 5·7	mb. 5·6	mb. 5·4	mb. 5·4	mb. 5·3	mb. 5·3	mb. 5·2	mb. 5·2	mb. ‡5·4	

200. Eskdalemuir : Louvred Hut : h_t = 0·9 metres. **April, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	73	74	79	77	78	78	73	67	58	49	37	31	29	26	28	33	40	54	64	67	66	66	68	72	**57·8**	**4·1**
2	71	70	72	83	89	91	94	93	82	78	78	82	89	91	92	92	92	92	89	89	91	92	92	89	86·0	5·8
3	85	89	91	90	89	89	84	84	82	80	70	62	64	61	69	66	68	71	64	72	74	77	82	85	77·1	5·6
4	86	82	83	85	74	84	85	78	73	61	59	61	60	62	69	74	67	63	69	69	70	82	87	87	73·7	6·3
5	82	75	75	82	84	82	81	63	58	53	52	46	45	45	44	42	45	53	66	76	78	77	81	83	65·4	5·3
6	86	88	88	88	91	90	91	87	55	44	38	44	26	32	24	25	47	55	79	81	78	81	86	88	66·3	4·7
7	89	89	92	94	94	97	98	96	75	71	66	61	55	58	61	69	77	81	90	93	91	91	91	96	82·1	7·1
8	96	96	96	91	91	88	90	90	86	86	83	69	67	71	58	72	75	85	93	94	93	99	100	100	86·1	8·8
9	100	100	100	100	100	100	100	100	93	88	87	72	58	63	59	44	60	72	75	84	79	87	96	94	83·9	9·1
10	89	90	91	91	91	93	93	93	62	46	41	41	45	44	41	52	61	72	78	85	89	91	90	89	73·4	7·4
11	88	90	91	94	89	90	88	88	87	88	83	77	66	56	59	63	71	89	88	96	99	99	97	97	84·5	**9·5**
12	99	99	91	89	86	92	84	77	70	68	74	64	62	60	55	56	79	69	80	80	75	83	80	80	77·5	7·2
13	75	78	78	78	76	77	75	71	68	55	57	62	49	48	58	69	76	88	94	85	86	86	84	77	73·0	6·5
14	81	81	79	76	75	76	76	74	69	71	63	62	57	57	56	70	71	76	76	80	81	82	84	86	73·1	7·8
15	88	86	91	88	88	87	90	87	85	76	87	85	96	99	90	91	88	84	81	86	75	77	77	77	86·0	8·2
16	78	88	88	86	84	85	74	81	76	72	67	76	67	74	78	69	66	78	80	84	85	77	85	83	78·3	6·7
17	80	75	75	75	73	75	68	66	70	57	59	92	57	52	36	58	98	100	100	100	98	100	96	96	77·1	6·0
18	89	89	96	85	84	82	78	78	68	53	69	70	59	74	80	83	65	56	63	68	68	68	70	89	74·5	5·8
19	82	78	84	78	78	84	78	65	51	45	40	46	46	52	56	60	54	61	67	74	79	77	75	78	66·4	5·8
20	83	78	71	78	72	62	56	60	80	85	66	62	45	42	46	52	55	61	63	78	83	87	89	91	68·3	5·4
21	92	89	90	90	89	88	90	82	66	57	54	48	50	51	57	63	63	67	75	81	83	81	78	81	73·7	6·2
22	87	82	87	84	84	82	75	78	78	80	71	72	58	67	87	82	81	84	90	90	92	92	87	92	81·5	7·6
23	95	98	97	95	95	95	92	95	90	81	78	75	65	61	79	89	86	90	90	91	93	94	92	94	87·9	7·8
24	94	97	96	94	96	93	86	79	76	74	68	75	62	88	83	75	86	77	88	88	87	87	85	87	84·4	8·9
25	85	87	88	87	86	84	87	90	91	86	88	88	83	80	77	73	83	90	91	94	94	94	98	97	87·3	8·9
26	96	93	97	96	97	97	97	97	97	93	94	94	94	87	94	90	96	91	92	94	89	88	89	89	**93·5**	8·3
27	90	90	87	86	96	90	86	92	89	88	81	80	90	82	56	64	81	64	65	69	73	78	80	82	80·9	7·2
28	85	85	83	85	84	81	80	72	67	55	51	69	71	87	62	62	61	62	70	82	87	93	91	94	75·5	7·0
29	94	93	94	85	85	85	75	66	61	48	51	52	49	55	53	48	51	61	67	72	69	60	67	72	67·7	6·9
30	74	69	83	85	73	76	69	59	59	60	47	49	49	67	80	80	78	68	65	66	58	73	76	82	68·3	6·1
Mean ...	86·4	85·9	**87·1**	86·5	85·7	85·8	83·1	80·3	74·1	68·3	65·3	65·6	**60·4**	63·1	62·9	65·5	70·7	73·8	78·4	82·3	82·1	84·0	85·1	86·9	77·0	†6·9
Vapour Pressure* ...	mb. 6·5	mb. **6·3**	mb. 6·4	mb. 6·4	mb. 6·4	mb. 6·5	mb. 6·7	mb. 7·0	mb. 7·0	mb. 6·9	mb. 6·8	mb. 7·0	mb. 6·7	mb. 6·9	mb. 6·9	mb. 7·0	mb. 7·2	mb. **7·2**	mb. 7·1	mb. 7·0	mb. 6·9	mb. 6·7	mb. 6·6	mb. 6·6	mb. ‡6·8	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	

* Computed from the mean temperatures and the mean relative humidities. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

201. Eskdalemuir : Louvred Hut : h_t (height of thermometer bulbs above ground) = 0·9 metres. **May, 1931.**

Hour. G.M.T. / Day.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	82	89	89	93	89	93	92	87	78	72	76	55	56	63	71	58	61	66	72	75	77	85	83	90	77·0	6·4
2	92	94	95	98	95	95	94	66	65	55	51	53	53	70	60	44	49	52	66	80	84	81	85	88	73·6	6·0
3	92	93	93	94	91	94	93	61	48	43	50	41	39	36	32	51	51	55	64	71	72	82	83	78	67·2	**5·7**
4	82	82	87	84	88	78	78	65	49	47	48	41	38	46	37	40	44	48	62	79	84	89	90	90	**65·4**	6·2
5	95	97	98	97	98	96	97	86	74	85	88	61	57	58	52	52	62	64	70	76	88	93	94	93	80·4	7·7
6	88	88	88	88	87	78	76	75	74	55	45	40	48	64	58	62	69	73	66	67	70	76	79	68	70·6	8·7
7	78	77	72	76	75	74	73	67	74	70	72	74	84	87	84	85	74	82	84	89	90	94	93	94	79·5	8·9
8	94	96	96	96	96	96	91	92	91	92	89	73	62	55	53	49	55	65	74	84	79	88	83	77	80·6	9·0
9	93	80	80	98	83	84	74	69	63	63	63	62	54	50	51	48	49	57	47	57	55	67	71	79	66·5	7·5
10	86	91	91	90	90	90	92	98	96	94	96	96	99	98	96	95	99	98	100	100	99	99	99	100	**95·1**	11·0
11	100	100	100	100	100	100	100	100	76	71	70	74	76	79	76	83	71	75	76	84	91	88	88	94	86·5	10·3
12	98	97	94	98	94	96	94	90	87	76	89	87	87	87	78	75	87	92	88	93	96	99	99	96	90·7	9·8
13	93	98	93	94	91	87	91	92	87	88	91	92	94	95	95	95	98	96	93	92	94	96	100	100	93·5	10·4
14	98	99	98	99	98	100	99	99	95	95	96	92	88	91	82	85	87	93	95	93	93	93	93	94	94·1	10·8
15	92	92	94	89	90	88	88	87	87	72	79	79	76	69	58	54	66	72	75	78	85	85	89	90	80·7	9·3
16	81	88	87	88	87	88	85	75	72	67	68	60	58	52	54	62	82	83	79	82	88	88	88	91	77·2	8·7
17	92	87	86	90	87	82	81	75	81	76	70	75	68	68	73	71	72	75	79	79	83	85	90	85	79·7	8·5
18	87	84	84	86	86	79	74	72	60	63	60	55	50	50	50	52	50	53	64	72	69	75	76	77	68·0	8·1
19	82	86	86	87	80	79	73	69	61	65	63	62	68	62	56	57	54	55	58	74	80	85	80	94	71·1	7·2
20	90	91	93	92	93	68	64	51	53	57	51	52	51	48	49	49	49	49	61	71	74	68	78	84	66·3	5·9
21	86	88	88	90	88	66	51	48	41	46	48	50	56	53	51	52	54	57	65	72	79	85	85	84	66·0	6·3
22	85	83	83	81	82	78	74	74	73	73	77	76	76	83	88	92	91	92	94	93	96	99	96	94	84·5	8·2
23	96	96	96	93	91	94	82	81	83	74	74	76	72	73	64	67	68	80	85	85	89	96	95	92	83·5	10·6
24	93	91	92	92	88	89	87	90	92	90	94	89	92	93	91	92	84	87	88	87	89	88	91	89	90·0	11·2
25	88	88	88	86	89	87	88	82	71	73	69	87	88	69	63	68	73	76	77	86	88	84	87	88	81·0	10·4
26	88	87	87	91	91	92	87	87	84	73	64	67	61	61	62	60	62	65	66	82	87	91	98	84	78·3	10·3
27	90	90	93	95	88	80	75	74	70	66	63	62	51	47	55	54	60	62	58	59	63	68	68	67	69·5	10·3
28	72	81	89	83	84	83	81	82	87	85	80	78	78	78	88	95	94	94	95	95	94	92	94	91	85·9	11·2
29	89	89	91	96	91	86	74	74	68	65	64	61	55	50	49	51	56	54	59	65	87	88	87	88	72·4	10·5
30	91	87	89	92	85	75	74	68	65	60	60	59	59	57	52	65	78	81	80	76	82	78	80	84	74·1	**11·7**
31	89	90	92	92	93	92	89	89	94	92	86	78	80	79	81	75	82	80	82	86	87	92	89	91	86·5	11·4
Mean ...	89·1	89·6	90·1	**91·2**	89·3	86·0	82·9	78·2	74·2	71·1	70·8	68·0	66·9	66·8	**64·8**	65·7	68·7	72·0	74·9	80·1	83·6	86·4	87·5	87·5	78·6	†9·0
Vapour Pressure* ... (mb.)	**8·1**	8·2	8·2	8·2	8·2	8·3	8·7	8·9	9·0	9·0	9·3	9·3	9·3	9·3	9·2	9·2	9·3	9·3	9·1	9·0	8·7	8·6	8·4	8·3	‡8·8	

202. Eskdalemuir : Louvred Hut : h_t = 0·9 metres. **June, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	23.	Mean.	Vapour Pressure*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	89	91	92	91	92	88	88	85	80	76	76	76	76	79	81	83	86	85	85	82	86	87	85	85	84·5	10·0
2	86	86	87	88	87	84	81	76	74	69	82	85	86	93	88	96	96	97	100	100	98	98	98	100	88·7	8·5
3	100	100	100	100	100	100	100	99	99	98	80	77	80	89	89	88	89	90	94	94	98	98	93	94	93·8	9·1
4	93	91	94	96	93	93	95	93	87	69	64	71	78	77	77	80	81	89	92	96	95	92	91	89	86·6	11·3
5	88	88	88	89	89	88	86	82	85	85	78	73	67	62	57	59	61	62	64	70	72	79	81	81	76·6	8·4
6	86	89	88	91	92	90	85	87	84	87	87	87	87	87	90	86	90	90	93	97	97	95	98	98	89·0	**8·2**
7	96	96	97	98	98	100	100	96	98	94	93	86	84	85	83	82	83	87	91	94	99	98	96	94	92·9	9·8
8	98	98	96	96	96	95	96	97	88	96	97	89	86	81	88	87	85	87	89	94	93	94	98	99	92·5	11·9
9	99	100	99	100	100	100	99	97	88	82	78	69	77	80	90	94	98	99	100	99	100	100	98	97	93·5	13·0
10	97	97	99	97	98	99	97	98	99	99	98	98	98	98	96	99	97	97	99	98	99	98	99	100	**98·0**	13·5
11	100	99	99	100	99	88	88	84	87	74	75	57	57	48	55	51	52	67	72	81	80	89	88	94	78·6	10·6
12	88	93	85	80	65	79	74	85	86	94	82	80	77	77	70	67	76	74	76	77	82	79	97	93	80·7	11·2
13	97	99	98	98	100	96	89	68	53	54	58	56	54	53	47	50	61	70	78	78	86	88	87	88	75·4	11·1
14	97	96	96	91	91	83	82	76	66	80	96	92	100	97	95	96	98	97	98	94	94	92	93	93	91·3	**14·5**
15	89	87	89	81	74	74	72	72	65	65	74	71	78	76	80	83	85	90	92	92	93	93	97	94	81·9	10·8
16	94	92	90	89	92	94	95	97	94	91	91	67	75	61	73	70	79	73	83	86	94	92	91	94	85·6	12·0
17	96	95	91	88	91	88	88	93	79	72	67	79	77	67	51	51	78	72	86	86	87	89	87	91	81·3	10·4
18	89	88	89	88	87	87	86	83	84	98	99	84	86	87	86	75	80	90	90	94	89	96	91	89	88·2	10·5
19	90	89	90	91	86	86	83	87	83	82	81	65	64	64	68	66	67	82	81	81	83	86	100	100	81·3	9·5
20	95	85	93	96	94	87	88	86	78	73	68	67	53	55	57	61	53	68	71	79	87	93	96	95	78·4	9·0
21	98	96	97	98	94	96	91	90	89	91	90	80	68	64	63	63	70	75	82	83	88	91	96	93	85·3	13·5
22	93	94	93	90	89	88	85	80	71	70	58	55	51	51	55	54	51	49	60	63	68	64	69	72	70·1	10·2
23	79	78	77	87	83	81	86	92	91	91	87	92	95	90	85	81	89	89	91	91	92	92	89	88	87·0	10·6
24	88	89	86	88	87	85	77	70	59	66	55	53	53	55	55	52	52	57	62	67	82	76	79	78	69·8	8·6
25	87	90	92	91	84	77	73	64	61	60	60	66	58	59	58	54	54	58	52	64	76	83	87	95	70·6	8·8
26	95	90	93	93	87	91	90	98	98	99	97	97	86	83	87	89	95	97	97	99	98	99	99	98	93·9	11·8
27	99	99	99	99	91	89	90	93	97	93	93	94	97	93	84	81	69	79	77	79	83	85	87	93	89·4	14·2
28	95	96	97	98	97	99	87	79	71	63	57	59	57	57	56	51	61	53	61	71	65	71	80	76	73·6	11·3
29	74	74	78	73	68	70	68	64	53	76	63	61	55	58	53	54	65	66	69	70	81	82	80	79	**68·0**	8·8
30	86	88	94	98	87	96	84	82	68	70	66	64	57	62	63	66	74	84	87	88	89	92	93	93	80·2	9·2
Mean ...	92·0	91·8	**92·2**	92·1	89·7	89·0	86·8	85·1	80·5	80·6	78·3	75·0	73·9	72·9	72·7	**72·3**	75·8	79·1	82·4	84·9	87·8	89·0	90·8	91·1	83·6	†10·7
Vapour Pressure* ... (mb.)	10·0	9·9	9·9	**9·8**	9·8	10·1	10·4	10·6	10·6	10·9	11·0	11·0	11·2	**11·2**	11·2	10·9	11·0	11·0	10·9	10·7	10·5	10·4	10·4	10·2	‡10·6	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	23.	Mean.	

* Computed from the mean temperatures and the mean relative humidities. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

203. Eskdalemuir : Louvred Hut : h_t (height of thermometer bulbs above ground) = 0·9 metres. **July, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	93	89	89	92	93	87	84	85	81	84	78	95	93	78	82	94	90	90	89	95	93	94	95	93	89·0	11·8
2	91	94	89	90	92	95	95	93	77	70	72	68	75	79	88	89	75	77	76	76	79	83	92	91	83·6	11·8
3	94	92	87	85	92	94	94	97	96	99	98	97	98	94	98	96	98	100	98	99	99	99	96	96	**95·6**	13·4
4	97	97	96	97	96	94	90	89	78	65	67	81	79	76	79	80	71	85	83	89	93	89	92	89	85·7	13·1
5	92	92	88	87	87	90	90	86	78	79	67	65	62	61	63	68	76	89	89	91	92	88	89	89	81·6	12·2
6	89	90	91	89	87	89	89	78	75	75	80	79	77	76	71	78	86	84	86	79	83	88	93	97	83·5	11·8
7	95	94	94	95	95	98	93	88	83	77	88	82	73	74	70	69	74	71	85	90	93	96	96	95	86·2	13·4
8	98	97	96	97	96	95	93	87	90	88	90	83	90	88	90	90	89	94	92	92	86	91	96	86	91·6	13·5
9	96	95	96	90	83	88	79	70	76	71	66	72	73	82	74	81	81	85	82	85	92	89	89	90	82·6	14·9
10	91	93	91	91	87	88	87	83	90	87	86	86	90	94	90	86	85	88	95	96	95	95	97	99	90·2	13·3
11	97	97	98	95	96	93	90	76	84	85	79	68	71	64	68	72	75	79	72	78	85	91	88	90	83·2	13·7
12	86	90	93	97	96	93	94	96	91	93	90	88	89	79	70	75	73	65	70	82	94	92	95	95	86·8	14·1
13	98	96	95	99	98	95	84	78	73	66	69	66	67	68	68	66	70	71	78	90	93	93	93	95	82·0	12·0
14	96	94	94	93	92	89	87	79	77	74	74	90	79	84	81	79	69	81	78	84	87	90	91	95	84·9	13·0
15	94	93	95	98	96	95	91	87	88	83	75	76	71	67	69	67	63	63	75	83	87	88	92	88	82·8	13·3
16	93	95	92	85	87	83	88	73	62	56	62	58	67	64	57	61	68	80	86	88	86	96	95	97	78·1	11·8
17	98	97	91	90	91	81	75	86	74	78	77	74	87	77	78	81	89	91	97	98	98	98	98	97	87·5	12·5
18	98	98	98	98	97	94	90	87	87	88	80	76	74	72	83	77	66	72	77	83	81	83	85	92	85·0	12·4
19	83	84	86	86	86	84	84	74	72	69	69	71	67	63	64	67	84	84	86	86	87	89	83	88	79·1	11·1
20	88	89	85	86	86	83	83	81	70	62	62	54	55	59	57	50	59	65	67	69	83	84	84	85	**72·8**	**9·3**
21	88	90	93	88	88	86	87	76	73	78	73	67	61	68	68	83	86	83	92	94	97	98	100	99	83·7	11·1
22	100	95	96	91	91	90	90	87	87	91	90	93	91	97	99	100	100	100	100	100	100	99	99	97	95·2	**15·0**
23	98	93	93	94	93	90	91	89	81	79	68	64	66	64	72	71	78	78	86	89	93	95	94	97	84·0	12·8
24	96	95	95	96	93	92	86	83	81	75	77	66	74	59	61	58	67	76	85	88	91	90	93	91	82·1	12·2
25	87	88	95	93	94	94	92	96	95	83	77	70	68	69	76	84	85	94	94	95	94	98	95	97	87·9	13·5
26	96	91	89	82	85	88	85	88	84	78	69	66	61	63	67	62	68	67	75	80	85	83	86	88	78·8	12·4
27	84	83	81	84	88	86	83	79	76	73	68	71	70	73	83	67	80	82	81	83	84	89	90	89	80·3	11·0
28	89	87	85	90	89	92	90	93	91	90	92	87	85	78	81	85	83	81	82	77	76	79	83	82	85·4	11·6
29	76	79	82	89	92	89	89	89	87	89	91	81	93	96	95	98	99	99	99	99	99	99	96	93	91·3	12·5
30	99	99	99	99	98	99	91	90	80	85	78	72	73	73	75	72	69	68	77	86	89	91	91	95	85·3	13·3
31	94	93	99	99	91	95	88	81	78	84	76	71	78	73	79	76	81	81	86	91	95	97	96	97	86·6	13·7
Mean ...	**92·7**	92·2	92·0	91·8	91·5	90·6	88·1	84·6	81·1	79·2	77·0	75·4	76·0	**74·6**	76·0	76·8	78·6	81·4	84·5	87·6	90·0	91·4	92·3	92·6	84·9	†12·6
Vapour Pressure* ...	mb. 12·1	mb. 12·0	mb. 12·2	mb. **12·0**	mb. 12·0	mb. 12·3	mb. 12·5	mb. 12·7	mb. 12·7	mb. 12·7	mb. 12·7	mb. 12·7	mb. 13·0	mb. 12·7	mb. 12·7	mb. **13·1**	mb. 12·9	mb. 12·9	mb. 12·9	mb. 12·9	mb. 12·7	mb. 12·6	mb. 12·4	mb. 12·3	mb. ‡12·6	

204. Eskdalemuir : Louvred Hut : h_t = 0·9 metres. **August, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	99	97	95	92	91	85	88	87	82	82	78	75	70	72	69	70	70	78	87	88	91	96	94	98	84·7	14·5
2	99	95	96	94	98	97	97	91	91	84	78	78	77	84	86	92	94	84	86	85	87	87	87	89	89·2	13·9
3	89	90	92	95	95	90	89	89	87	75	74	75	70	71	65	73	82	82	88	90	90	89	92	93	84·3	13·1
4	94	95	95	96	96	96	93	91	89	82	81	79	72	73	73	73	77	76	80	86	87	94	94	92	86·0	13·6
5	96	96	98	95	93	95	92	96	88	86	77	74	68	71	71	72	68	78	84	87	88	94	90	93	85·4	13·6
6	93	94	95	94	95	97	91	83	76	71	61	64	53	60	65	65	63	72	77	72	85	85	87	90	78·7	**15·2**
7	88	91	89	91	87	94	91	92	91	82	77	70	61	59	63	71	69	73	74	79	80	80	89	91	80·5	11·9
8	87	84	90	87	89	86	82	72	66	67	80	81	85	66	64	74	68	73	67	65	67	70	76	77	76·3	9·5
9	76	72	80	70	67	64	62	60	55	52	52	50	50	44	47	54	62	67	72	75	70	78	76	84	64·0	**7·8**
10	89	96	96	99	99	98	98	92	88	98	83	80	73	71	73	65	68	77	75	88	91	94	91	93	86·3	10·5
11	97	98	98	97	91	97	93	88	65	71	75	83	78	88	89	82	83	82	87	79	83	85	86	83	86·0	11·1
12	89	88	88	96	94	93	89	89	91	86	83	81	85	74	68	69	76	79	85	86	85	86	90	94	84·9	13·1
13	90	93	94	93	95	97	92	89	93	92	94	95	88	87	90	87	83	89	91	90	88	86	86	91	90·7	14·0
14	86	87	87	86	75	78	82	80	65	59	61	63	57	55	50	59	66	70	75	84	84	86	89	91	74·0	10·2
15	94	91	91	91	91	89	88	93	91	91	86	81	80	79	80	77	78	83	88	92	90	93	94	95	87·7	11·7
16	94	92	95	96	95	93	90	90	93	98	81	70	64	64	57	68	80	87	83	89	90	96	96	97	85·7	12·8
17	97	96	95	94	94	94	94	95	90	93	90	88	84	78	75	87	73	79	87	88	82	85	87	88	88·3	13·3
18	89	90	92	88	90	91	89	81	73	71	66	62	57	55	56	53	70	89	83	89	90	96	99	98	79·7	12·0
19	96	94	96	91	93	91	87	88	91	89	94	91	88	82	88	91	94	97	98	98	100	100	99	99	**93·1**	12·1
20	99	99	99	99	98	98	94	94	90	95	95	91	81	95	87	75	86	89	86	89	87	87	89	82	91·3	13·0
21	78	79	79	77	76	79	82	80	79	85	78	85	74	71	66	78	81	82	80	87	88	90	85	85	80·1	10·9
22	87	87	84	87	91	80	73	63	63	63	61	59	55	55	51	53	58	63	66	81	76	85	89	90	**71·6**	7·9
23	93	86	91	84	88	83	82	68	64	60	55	54	56	49	54	61	65	71	82	81	82	83	90	88	73·8	8·4
24	100	90	79	87	94	75	72	60	66	66	65	68	62	72	69	71	70	70	79	78	86	89	83	85	76·6	8·2
25	88	82	88	88	90	93	87	74	65	73	67	64	69	60	58	58	65	66	76	70	74	79	84	90	75·2	9·4
26	91	96	91	91	97	97	85	71	63	62	50	55	57	56	58	61	65	66	83	76	93	94	98	97	77·1	10·1
27	93	96	95	91	95	98	89	86	72	73	67	57	52	51	48	57	64	71	73	78	82	86	87	89	77·3	10·2
28	86	91	97	97	97	92	94	88	75	68	65	57	51	59	59	63	64	73	77	83	81	84	82	84	77·9	10·3
29	84	86	84	87	87	88	84	83	77	78	72	66	61	60	62	63	79	86	86	93	92	94	96	92	80·7	11·4
30	91	95	93	98	96	92	80	81	71	69	60	67	67	70	73	73	77	82	84	88	88	91	89	88	81·9	11·2
31	89	85	88	88	87	87	83	74	68	69	67	67	60	59	55	58	59	65	78	83	91	97	95	98	76·9	9·4
Mean ...	91·0	90·7	**91·3**	90·9	91·1	89·9	86·8	82·8	78·0	77·1	77·3	71·9	67·9	67·4	**66·7**	69·5	72·8	77·4	81·2	83·8	85·4	88·4	89·4	90·5	81·5	†11·4
Vapour Pressure* ...	mb. 10·7	mb. 10·6	mb. 10·5	mb. 10·3	mb. **10·2**	mb. 10·3	mb. 10·6	mb. 11·1	mb. 11·3	mb. 11·7	mb. 11·8	mb. 12·0	mb. 11·7	mb. 11·9	mb. 11·8	mb. 12·0	mb. 12·1	mb. **12·2**	mb. 11·8	mb. 11·2	mb. 10·9	mb. 10·8	mb. 10·7	mb. 10·7	mb. ‡11·2	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	

* Computed from the mean temperatures and the mean relative humidities. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

205. Eskdalemuir : Louvred Hut : h_t (height of thermometer bulbs above ground) = 0·9 metres. **September, 1931.**

Hour. G.M.T. / Day.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	100	100	100	100	100	100	93	84	82	68	64	67	57	50	55	56	69	78	87	85	92	89	95	95	82·0	9·7
2	91	93	91	93	95	89	93	91	90	96	90	91	92	94	94	95	92	92	94	88	91	86	85	85	91·5	10·9
3	86	88	86	89	88	89	86	83	73	73	67	72	73	79	79	82	86	84	85	84	79	78	82	86	81·5	9·3
4	88	88	86	85	83	81	77	73	69	65	63	63	55	58	56	61	64	59	70	73	76	75	75	76	**71·8**	8·4
5	83	90	91	90	86	83	76	74	68	67	64	54	63	65	87	72	75	86	86	85	85	86	85	85	78·4	8·7
6	84	84	84	83	80	73	70	62	61	61	60	58	61	65	68	76	77	77	78	85	85	84	85	89	74·5	7·7
7	85	98	94	85	90	90	93	87	66	73	63	65	59	57	56	62	74	74	86	91	90	84	90	100	79·4	8·0
8	98	98	98	91	91	92	93	72	86	79	77	69	70	76	82	76	66	74	76	86	84	86	88	91	83·5	8·5
9	86	87	90	92	90	94	87	88	73	58	65	62	61	56	58	72	74	78	81	89	90	86	93	96	79·3	8·1
10	91	90	92	97	90	89	84	80	78	64	56	81	76	66	76	91	93	91	94	94	94	98	91	92	85·4	7·8
11	92	93	93	92	92	92	92	91	78	71	78	72	80	84	92	89	81	83	78	82	86	85	88	86	85·5	**7·5**
12	80	84	84	88	90	90	90	88	89	83	70	76	76	81	69	73	69	69	90	94	95	98	88	91	83·4	8·3
13	91	92	92	89	91	91	92	90	72	66	63	58	72	67	66	67	73	73	84	87	87	91	91	91	80·7	7·8
14	93	91	95	97	97	99	98	99	97	90	90	96	92	91	91	93	91	98	99	100	99	100	100	100	**95·5**	13·1
15	99	100	100	100	100	99	96	97	83	78	77	76	80	82	80	80	83	83	83	85	80	88	89	91	88·1	**13·8**
16	92	92	93	93	95	94	92	87	85	79	75	77	77	80	83	88	89	91	97	97	98	94	95	92	88·9	12·2
17	93	94	97	98	98	98	98	99	96	88	88	84	82	73	80	79	77	86	84	89	88	86	87	88	88·8	13·0
18	90	95	90	95	96	94	84	87	83	76	72	75	75	79	81	79	82	86	88	94	90	87	81	85	85·2	11·9
19	94	91	91	93	93	93	90	85	87	91	85	76	75	74	75	74	76	86	88	88	87	97	94	96	86·4	11·3
20	98	98	98	98	98	98	84	77	87	69	66	60	61	58	60	64	75	79	80	83	88	87	87	86	81·0	8·6
21	86	88	88	87	91	90	82	77	69	64	62	61	55	60	56	59	69	77	84	89	90	97	98	96	77·9	7·7
22	85	93	94	93	93	96	92	86	83	71	63	54	59	60	60	66	74	78	82	88	84	84	86	83	79·7	9·1
23	85	85	84	87	86	84	91	87	85	85	83	82	82	80	78	76	76	85	91	88	87	87	88	87	84·3	11·1
24	87	87	88	89	83	88	87	87	85	85	80	79	77	74	74	80	83	85	87	88	91	92	91	95	84·9	10·9
25	93	95	96	93	92	91	93	91	89	86	72	65	69	60	63	70	75	81	87	90	91	98	98	97	84·7	10·6
26	97	97	92	93	94	98	87	89	88	87	77	77	74	75	77	76	82	85	78	83	89	87	87	94	86·0	10·1
27	91	87	84	88	90	90	95	91	85	79	71	67	65	64	72	75	77	75	79	78	84	76	76	78	80·2	9·3
28	75	74	75	78	72	82	86	86	82	79	82	85	80	77	82	83	86	86	87	93	95	91	92	94	83·1	10·7
29	95	94	95	98	95	92	91	94	94	78	79	64	72	66	71	80	83	84	87	87	87	83	84	87	85·2	10·3
30	88	87	87	86	83	86	86	86	83	86	87	87	91	89	95	98	95	95	96	96	94	94	95	95	90·0	10·8
Mean ...	89·9	91·1	90·9	**91·3**	90·7	90·8	88·6	85·6	81·5	76·5	73·0	71·8	72·0	**71·3**	73·9	76·4	78·9	81·9	85·5	88·0	88·5	88·4	88·8	90·2	83·6	†9·8
Vapour Pressure* ...	mb. 8·8	mb. 8·8	mb. 8·7	mb. 8·5	mb. 8·4	mb. **8·4**	mb. 8·8	mb. 9·5	mb. 10·2	mb. 10·3	mb. 10·4	mb. 10·4	mb. 10·5	mb. 10·6	mb. 10·6	mb. 10·7	mb. **10·7**	mb. 10·5	mb. 10·1	mb. 9·9	mb. 9·8	mb. 9·5	mb. 9·4	mb. 9·2	mb. ‡9·7	

206. Eskdalemuir : Louvred Hut : h_t = 0·9 metres. **October, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	93	94	94	94	89	93	92	89	89	87	90	85	90	94	96	94	97	96	99	98	99	98	95	95	93·3	12·3
2	97	98	99	99	97	98	93	89	84	89	75	71	61	64	79	83	75	84	75	77	81	74	77	77	83·5	11·3
3	75	76	76	74	73	73	74	79	71	72	70	56	63	56	64	64	70	76	84	87	92	93	89	89	74·6	7·5
4	90	91	97	95	94	94	95	94	89	82	74	64	65	77	78	87	93	96	98	100	99	99	97	98	89·2	13·6
5	99	98	97	92	96	92	95	95	95	93	94	93	96	97	98	95	98	99	99	97	96	95	98	97	**96·0**	**14·7**
6	97	98	95	94	94	91	93	91	95	93	96	96	96	95	94	97	97	97	97	96	97	90	86	86	94·5	13·1
7	86	93	91	87	93	96	88	85	88	86	73	74	65	77	77	86	82	77	85	86	79	88	86	90	84·0	8·9
8	93	91	93	89	90	88	90	96	93	93	96	97	91	89	86	86	91	94	92	93	96	95	91	93	91·9	11·6
9	93	94	91	90	89	89	89	90	91	95	96	97	98	98	96	92	93	94	89	92	87	86	89	86	92·0	12·5
10	89	89	93	92	91	91	96	99	87	79	76	55	64	59	61	66	76	80	84	88	88	87	88	89	81·9	9·8
11	87	88	87	89	89	89	89	92	89	90	89	91	93	94	88	88	95	88	91	91	93	93	94	96	90·4	11·0
12	98	98	98	96	96	96	96	96	95	93	90	87	86	96	94	94	92	93	90	86	83	89	88	88	92·6	11·0
13	86	86	86	86	82	76	87	74	66	68	69	68	58	62	56	64	71	72	74	82	83	76	81	78	74·8	8·2
14	84	85	85	84	87	88	82	74	74	69	64	56	63	62	63	67	76	81	85	92	98	98	93	87	78·8	8·6
15	91	96	96	96	89	96	98	92	95	99	88	69	67	69	75	75	91	96	98	100	100	98	100	100	90·3	8·1
16	100	100	100	100	100	100	100	92	97	87	76	70	68	62	58	67	75	86	93	91	90	85	95	87	86·9	8·3
17	87	87	88	88	86	83	83	80	87	77	75	74	79	84	89	89	88	88	89	93	90	88	86	94	85·3	9·6
18	90	91	94	94	91	90	91	89	91	93	94	93	93	88	89	91	89	91	96	92	92	93	94	93	91·7	9·8
19	97	97	99	97	98	94	98	98	96	92	88	84	82	73	79	76	77	80	80	83	80	72	71	74	86·5	9·4
20	81	73	80	73	89	78	65	53	48	51	44	45	45	37	42	42	50	57	57	58	59	59	58	58	**58·7**	5·2
21	62	64	69	65	69	69	70	71	62	62	62	52	58	60	54	60	72	70	77	83	86	90	91	94	68·9	4·6
22	92	92	95	97	95	95	96	97	97	62	58	65	63	66	58	64	79	74	80	85	91	93	96	97	82·7	4·8
23	98	97	98	97	98	98	98	100	100	98	90	85	74	82	89	93	91	93	87	94	96	88	90	84	92·7	6·5
24	85	89	82	80	98	94	84	75	68	69	62	57	49	49	54	63	68	72	73	69	69	72	74	77	72·3	5·0
25	79	73	68	67	68	69	69	69	66	55	43	47	47	52	51	60	58	67	75	79	83	86	90	91	66·9	**3·8**
26	92	93	93	94	93	92	90	84	77	71	70	72	60	64	57	67	81	85	93	91	96	95	98	94	83·3	5·6
27	98	85	86	85	76	80	75	83	93	93	94	90	94	96	94	91	92	92	92	89	88	89	92	90	89·1	8·7
28	94	94	93	92	90	84	80	84	75	66	60	56	57	61	58	72	74	68	80	77	67	79	88	89	76·6	7·0
29	92	93	94	97	98	98	98	98	99	99	85	73	81	83	95	85	95	95	93	93	93	93	87	90	92·0	6·3
30	93	89	85	85	84	77	77	76	71	74	53	46	47	47	60	69	73	83	84	86	92	92	92	93	76·1	4·7
31	93	95	97	97	97	99	97	91	88	93	80	94	93	93	98	98	99	99	100	99	98	100	100	100	95·6	6·9
Mean ...	90·0	89·9	**90·3**	89·2	89·6	88·7	88·0	86·3	84·4	81·6	76·6	73·0	**72·5**	73·7	75·2	78·2	82·5	84·6	86·7	88·0	88·4	88·2	88·8	88·8	84·3	†8·7
Vapour Pressure* ...	mb. 8·0	mb. 7·9	mb. 7·9	mb. 7·7	mb. 7·8	mb. 7·7	mb. **7·7**	mb. 7·9	mb. 8·4	mb. 8·7	mb. 8·8	mb. 8·7	mb. 8·8	mb. **8·9**	mb. 8·8	mb. 8·8	mb. 8·8	mb. 8·6	mb. 8·5	mb. 8·4	mb. 8·3	mb. 8·2	mb. 8·1	mb. 8·0	mb. ‡8·3	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	

* Computed from the mean temperatures and the mean relative humidities. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

207. Eskdalemuir : Louvred Hut : h_t (height of thermometer bulbs above ground) = 0·9 metres. **November, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	100	96	95	95	94	98	97	96	96	94	91	89	88	89	93	89	87	86	87	84	84	84	84	86	91·2	10·8
2	83	91	87	88	89	86	87	86	86	81	79	83	86	84	91	95	96	92	95	95	97	98	96	94	89·2	10·4
3	95	95	94	93	95	99	98	93	96	96	98	99	96	99	95	93	91	96	95	91	95	99	96	96	95·5	**11·2**
4	90	94	93	97	98	83	87	92	87	87	83	79	66	65	70	78	74	77	79	79	86	90	92	93	84·2	9·7
5	98	100	100	96	95	97	92	98	97	94	99	86	86	83	89	89	90	93	97	96	97	90	90	90	93·5	8·4
6	91	93	93	87	88	87	86	86	86	78	81	77	71	70	75	75	75	75	83	94	93	92	98	98	84·5	9·4
7	94	94	94	94	94	94	96	98	98	98	98	96	96	91	94	94	96	94	98	100	99	100	99	97	96·0	9·6
8	97	94	93	90	98	91	91	91	93	98	90	88	82	88	92	92	96	91	91	93	90	89	93	90	91·8	9·3
9	88	88	88	91	87	91	93	94	93	88	88	91	90	88	86	88	88	93	97	96	96	93	96	97	91·0	8·9
10	98	97	96	97	96	96	93	91	93	98	90	92	90	93	92	89	93	94	88	89	89	94	98	98	93·5	9·2
11	98	98	96	98	99	99	99	99	99	98	96	89	89	90	93	94	93	96	94	94	94	93	94	96	95·4	9·3
12	93	97	94	91	90	88	94	93	91	85	86	86	93	84	84	83	89	90	88	86	86	91	87	87	89·2	9·0
13	95	92	95	92	97	88	96	98	98	97	96	83	79	75	82	85	87	90	88	84	87	89	89	82	89·4	7·9
14	82	86	86	92	96	97	97	93	94	97	97	97	96	96	97	93	91	93	96	95	95	94	90	90	93·2	8·4
15	90	88	89	87	82	82	82	84	84	87	81	84	81	84	91	90	91	91	91	91	91	91	97	97	87·6	8·0
16	96	97	98	98	98	98	96	96	94	90	93	87	87	86	88	87	90	95	98	93	98	100	100	96	94·2	7·2
17	95	96	87	96	93	91	90	88	86	84	79	77	73	74	80	79	74	73	72	72	77	78	80	82	**82·6**	6·5
18	85	85	90	89	90	92	90	90	93	93	88	90	90	89	93	93	96	96	96	97	96	98	97	95	91·9	7·5
19	97	97	97	96	96	96	96	96	98	94	94	94	90	88	86	90	88	88	91	88	88	87	88	88	92·3	7·7
20	85	85	86	85	89	83	87	83	83	83	86	83	79	83	84	84	90	88	84	90	86	84	87	93	85·3	8·0
21	80	92	90	90	87	87	88	85	85	88	78	76	74	70	74	85	87	91	83	85	96	93	94	94	85·5	6·8
22	94	96	98	98	96	98	99	99	99	99	99	94	93	88	93	94	85	81	81	82	78	77	80	81	91·2	6·0
23	83	78	78	80	83	94	93	93	97	97	97	96	93	94	98	96	96	94	94	94	96	98	96	95	91·9	8·9
24	98	99	92	87	86	84	84	82	84	85	82	87	80	84	84	94	93	98	94	98	96	95	96	98	89·9	8·8
25	93	96	96	93	88	93	88	91	91	89	88	84	84	88	91	96	94	96	96	94	96	89	87	89	91·4	10·1
26	91	91	93	96	94	96	96	96	92	91	89	87	84	83	84	95	91	93	94	90	96	98	92	94	91·8	9·5
27	94	94	89	92	92	89	94	93	85	87	82	86	90	88	88	90	96	92	93	96	96	90	90	96	90·9	7·5
28	92	89	87	93	94	96	97	97	97	90	88	85	81	79	86	84	83	86	87	88	98	86	89	87	89·0	8·4
29	86	86	85	89	91	91	90	94	95	97	97	97	97	97	97	99	100	99	100	98	98	98	96	100	94·6	8·1
30	98	96	96	100	100	100	100	100	100	99	99	92	93	97	96	96	100	100	99	100	100	100	100	100	**98·4**	**6·3**
Mean ...	92·0	**92·7**	91·8	92·3	92·5	92·1	92·5	92·5	92·3	91·4	89·7	87·8	85·9	**85·6**	88·2	89·6	90·0	90·7	91·0	91·1	92·2	91·9	92·4	92·6	90·9	†8·6
Vapour Pressure* ...	mb. 8·4	mb. 8·4	mb. 8·2	mb. 8·3	mb. 8·3	mb. **8·2**	mb. 8·2	mb. 8·2	mb. 8·4	mb. 8·7	mb. 8·8	mb. 8·9	mb. **8·9**	mb. 8·8	mb. 8·9	mb. 8·8	mb. 8·7	mb. 8·6	mb. 8·5	mb. 8·4	mb. 8·5	mb. 8·5	mb. 8·4	mb. 8·3	mb. ‡8·5	

208. Eskdalemuir : Louvred Hut : h_t = 0·9 metres. **December, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	100	99	99	99	99	99	99	99	98	98	98	100	100	98	98	99	100	99	99	99	99	99	99	99	**99·0**	7·6
2	99	99	99	00	99	94	93	93	95	90	89	89	87	88	87	84	84	89	94	93	94	93	91	93	92·5	8·6
3	96	96	94	100	98	93	96	98	86	89	80	82	86	87	82	85	84	84	85	75	74	78	87	87	87·7	8·9
4	88	87	91	91	91	91	91	93	76	72	72	82	88	93	87	87	91	84	85	81	75	82	69	67	84·3	8·1
5	73	71	74	80	78	85	87	87	92	87	85	81	90	91	77	84	82	92	94	96	96	96	96	92	86·0	7·4
6	90	90	85	91	91	91	91	90	88	85	82	74	64	65	67	65	69	69	70	69	70	71	69	69	78·2	6·0
7	79	76	78	77	74	67	73	81	82	88	90	90	89	85	88	89	86	86	80	77	83	88	88	94	82·3	6·8
8	90	88	90	84	75	75	79	79	82	75	76	77	79	79	77	77	83	82	75	76	80	80	80	80	80·2	7·3
9	80	75	82	80	76	76	76	78	79	81	82	77	86	85	78	81	79	86	85	85	85	82	89	89	81·2	8·1
10	91	92	95	93	91	87	87	86	84	80	79	80	75	82	79	78	84	86	86	86	82	80	82	86	84·7	10·2
11	86	81	86	88	88	91	88	93	89	88	89	91	88	88	90	91	91	90	85	87	84	87	90	90	88·2	9·3
12	93	88	91	90	88	84	86	86	86	83	81	79	80	80	80	78	85	87	84	86	85	85	84	82	84·8	9·0
13	82	79	77	84	84	85	85	86	84	87	83	83	82	82	84	83	82	80	85	92	92	97	94	99	85·1	7·3
14	97	96	93	93	94	98	98	98	98	96	98	93	93	89	88	91	88	93	92	89	88	87	88	91	93·0	9·9
15	89	88	89	91	91	91	96	92	89	89	84	79	82	79	82	91	98	84	85	84	89	89	85	85	89·7	7·6
16	87	87	85	87	88	90	88	90	88	85	84	83	80	78	77	76	78	73	75	75	84	82	85	85	82·9	5·3
17	85	85	86	86	82	84	90	87	87	91	84	76	72	69	80	84	87	87	88	87	90	87	88	90	84·6	5·7
18	88	87	90	92	92	94	94	94	94	97	97	98	98	94	94	90	88	87	88	93	93	98	100	100	93·1	5·2
19	98	100	98	100	100	98	98	98	95	95	97	96	97	97	97	95	95	93	92	92	93	93	95	96	96·3	7·7
20	92	96	97	98	97	97	98	97	96	96	97	96	97	96	96	98	98	96	96	96	95	98	98	94	96·5	7·6
21	93	94	89	90	91	96	97	97	95	92	93	95	92	93	90	94	96	91	91	94	97	95	98	100	93·7	7·1
22	93	93	94	94	96	92	92	92	89	89	89	92	89	87	85	88	92	87	87	85	89	90	94	87	90·5	5·9
23	93	86	84	92	96	96	95	96	94	99	100	98	98	99	98	98	99	99	96	94	98	96	96	96	95·4	8·7
24	99	96	95	93	96	96	94	94	99	98	99	99	98	96	98	98	93	96	88	84	85	82	76	75	93·2	**10·8**
25	73	70	74	79	78	72	84	75	74	76	78	70	67	77	77	81	75	81	76	83	79	82	82	84	76·8	7·2
26	89	95	93	96	94	94	92	91	89	87	87	88	92	82	80	82	79	73	77	84	84	84	82	82	86·5	9·6
27	84	88	87	87	81	83	87	87	83	79	76	73	65	69	72	72	75	76	89	81	81	83	91	77	80·4	9·0
28	74	81	83	69	73	74	84	75	82	89	81	75	73	71	74	84	97	91	99	93	80	82	77	78	80·7	5·7
29	76	93	82	74	69	66	74	73	73	71	70	70	72	72	70	70	71	73	71	73	76	74	88	78	74·1	4·6
30	77	73	70	68	66	68	65	62	63	63	60	60	59	59	54	55	54	55	59	66	68	70	73	74	**64·3**	**3·5**
31	74	76	78	78	80	77	76	71	68	65	66	66	70	73	78	79	83	88	91	93	96	96	91	90	79·0	3·6
Mean ...	87·4	87·3	87·4	87·9	87·0	86·6	**88·2**	87·6	86·4	85·8	84·7	83·6	83·5	83·3	**82·7**	84·1	85·7	85·1	85·4	85·4	85·9	86·6	87·3	86·7	85·9	†7·4
Vapour Pressure* ...	mb. 7·2	mb. 7·1	mb. 7·1	mb. 7·2	mb. 7·1	mb. 7·1	mb. 7·2	mb. 7·2	mb. 7·1	mb. 7·3	mb. 7·3	mb. 7·3	mb. 7·4	mb. **7·4**	mb. 7·2	mb. 7·1	mb. 7·1	mb. 7·1	mb. **7·0**	mb. 7·1	mb. 7·2	mb. 7·2	mb. 7·2	mb. 7·2	mb. ‡7·2	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	

* Computed from the mean temperatures and the mean relative humidities. † Mean of the column. ‡ Mean of the row.

HUMIDITY : ANNUAL MEANS FROM HOURLY VALUES.

For exact hours, Greenwich Mean Time.

209. Eskdalemuir : (Louvred Hut) $h_t = 0{\cdot}9$ metres. **1931.**

Hour G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Relative Humidity ..	% 89·5	% 89·5	% 89·6	% **89·6**	% 89·0	% 88·4	% 87·3	% 85·3	% 82·5	% 80·0	% 77·7	% 75·9	% 74·3	% **74·1**	% 74·3	% 75·9	% 78·6	% 81·1	% 83·5	% 85·7	% 86·9	% 87·9	% 88·6	% 89·1	% 83·5
Vapour Pressure (in Millibars)*	mb. 7·8	mb. 7·8	mb. 7·8	mb. 7·7	mb. **7·7**	mb. 7·7	mb. 7·9	mb. 8·1	mb. 8·3	mb. 8·4	mb. 8·5	mb. 8·6	mb. 8·6	mb. **8·6**	mb. 8·6	mb. 8·6	mb. 8·6	mb. 8·5	mb. 8·4	mb. 8·2	mb. 8·1	mb. 8·0	mb. 8·0	mb. 7·9	mb. 8·2

* Computed from the mean temperature and the mean relative humidity.

RELATIVE HUMIDITY : MONTHLY MEANS AND DIURNAL INEQUALITIES.

The departures from the mean of the day are adjusted for non-cyclic change.

210. Eskdalemuir : (Louvred Hut) $h_t = 0{\cdot}9$ metres. **1931.**

Month.	Mean.	Hour. 1.	GMT. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Jan.	87·7	+ 1·8	+ 1·1	+ 0·5	+ 0·9	+ 0·5	+ 0·7	+ 0·9	+ 0·1	+ 0·3	− 0·0	− 0·9	− 1·7	− 3·0	− 3·1	− **3·6**	− 1·7	− 0·8	− 0·1	+ 0·6	+ 0·9	+ 1·4	+ 1·4	+ 1·4	+ **2·4**
Feb.	86·1	+ 2·3	+ 2·5	+ 2·2	+ 1·9	+ 1·6	+ 1·3	+ 2·7	+ **2·8**	+ 1·7	− 0·3	− 0·4	− 1·4	− 4·0	− 4·8	− **6·1**	− 5·8	− 3·2	− 1·0	+ 0·3	+ 1·5	+ 2·1	+ 1·5	+ 1·2	+ 1·4
Mar.	78·6	+ 6·9	+ 6·9	+ 6·4	+ 6·8	+ 6·7	+ 6·8	+ **7·0**	+ 5·6	+ 3·2	− 2·6	− 6·3	− 9·7	−11·6	−13·2	−**14·0**	−11·9	− 8·2	− 3·0	− 0·2	+ 2·8	+ 3·8	+ 5·3	+ 5·8	+ 6·6
April	**77·0**	+ 9·5	+ 9·0	+**10·2**	+ 9·6	+ 8·7	+ 8·8	+ 6·1	+ 3·3	− 2·9	− 8·7	−11·7	−11·5	−**16·6**	−14·0	−14·2	−11·6	− 6·4	− 3·3	+ 1·3	+ 5·1	+ 4·9	+ 6·8	+ 7·9	+ 9·7
May	78·6	+10·7	+11·2	+11·6	+**12·8**	+10·8	+ 7·5	+ 4·5	− 0·3	− 4·3	− 7·5	− 7·8	−10·6	−11·7	−11·8	−**13·8**	−12·9	− 9·9	− 6·6	− 3·7	+ 1·4	+ 4·9	+ 7·7	+ 8·8	+ 8·9
June	83·6	+ 8·5	+ 8·2	+ **8·7**	+ 8·5	+ 6·2	+ 5·5	+ 3·2	+ 1·5	− 3·1	− 3·0	− 5·2	− 8·6	− 9·7	−10·7	−10·9	−**11·3**	− 7·7	− 4·5	− 1·2	+ 1·3	+ 4·2	+ 5·4	+ 7·2	+ 7·5
July	84·9	+ **7·9**	+ 7·4	+ 7·1	+ 6·9	+ 6·6	+ 5·7	+ 3·2	− 0·3	− 3·8	− 5·7	− 7·9	− 9·5	− 8·9	−**10·3**	− 8·9	− 8·1	− 6·3	− 3·6	− 0·5	+ 2·6	+ 5·0	+ 6·4	+ 7·3	+ 7·7
Aug.	81·5	+ 9·5	+ 9·2	+ **9·8**	+ 9·5	+ 9·7	+ 8·4	+ 5·4	+ 1·4	− 3·5	− 4·4	− 8·1	− 9·5	−13·6	−14·0	−**14·7**	−12·0	− 8·7	− 4·1	− 0·3	+ 2·3	+ 3·9	+ 6·9	+ 7·9	+ 9·0
Sept.	83·6	+ 6·3	+ 7·5	+ 7·3	+ **7·7**	+ 7·1	+ 7·2	+ 5·0	+ 2·0	− 2·0	− 7·1	−10·6	−11·8	−11·5	−**12·2**	− 9·7	− 7·1	− 4·7	− 1·6	+ 2·0	+ 4·4	+ 5·0	+ 4·8	+ 5·3	+ 6·7
Oct.	84·3	+ 5·8	+ 5·7	+ **6·1**	+ 4·9	+ 5·4	+ 4·4	+ 3·7	+ 2·0	+ 0·1	− 2·7	− 7·7	−11·3	−**11·9**	−10·6	− 9·2	− 6·1	− 1·8	+ 0·3	+ 2·4	+ 3·6	+ 4·1	+ 3·8	+ 4·5	+ 4·5
Nov.	**90·9**	+ 1·1	+ **1·8**	+ 1·0	+ 1·5	+ 1·6	+ 1·3	+ 1·7	+ 1·6	+ 1·5	+ 0·5	− 1·2	− 3·1	− 5·0	− **5·3**	− 2·7	− 1·2	− 0·9	− 0·2	+ 0·1	+ 0·2	+ 1·3	+ 1·1	+ 1·5	+ 1·8
Dec.	85·9	+ 1·3	+ 1·2	+ 1·3	+ 1·9	+ 1·0	+ 0·6	+ **2·2**	+ 1·7	+ 0·4	− 0·1	− 1·2	− 2·3	− 2·4	− 2·6	− **3·1**	− 1·7	− 0·2	− 0·8	− 0·4	− 0·4	+ 0·2	+ 0·9	+ 1·5	+ 1·0
Year	83·5	+ 6·0	+ 6·0	+ 6·0	+ **6·1**	+ 5·5	+ 4·9	+ 3·8	+ 1·8	− 1·0	− 3·5	− 5·8	− 7·6	− 9·2	− **9·4**	− 9·3	− 7·6	− 4·9	− 2·4	+ 0·0	+ 2·1	+ 3·4	+ 4·4	+ 5·1	+ 5·6

RAINFALL : ANNUAL TOTALS OF HOURLY VALUES.

† *Amounts, in millimetres ; durations, in hours, for periods of sixty minutes between the exact hours, Greenwich Mean Time.*

211. Eskdalemuir : $H_r = 242{\cdot}0$ metres $+ 0{\cdot}4$ metres. **1931.**

Hour. G.M.T.	0 to 1.	1 to 2.	2 to 3.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	21 to 22.	22 to 23.	23 to 24.	0 to 24.
Amount	mm. 58·5	mm. 51·8	mm. 47·0	mm. 61·4	mm. 60·6	mm. 56·4	mm. 50·3	mm. 52·3	mm. 41·5	mm. 45·4	mm. **40·0**	mm. 60·3	mm. 92·3	mm. 86·8	mm. 84·3	mm. 83·3	mm. 73·2	mm. 88·0	mm. **101·2**	mm. 63·0	mm. 55·2	mm. 62·6	mm. 61·9	mm. 72·8	mm. 1550·1
Duration... ...	hr. 53·0	hr. 56·2	hr. 57·0	hr. 59·8	hr. 58·5	hr. 53·7	hr. 48·3	hr. 45·2	hr. 42·1	hr. 42·4	hr. **31·8**	hr. 42·3	hr. 47·8	hr. 45·8	hr. 51·8	hr. 49·0	hr. 50·5	hr. 59·6	hr. **61·0**	hr. 49·6	hr. 50·0	hr. 55·3	hr. 49·0	hr. 52·0	hr. 1211·7

† The totals and durations for individual months are printed in the tables on the following pages.

NOTES ON RAINFALL.

212. Eskdalemuir. **1931.**

Rainfall Duration.—There were 119 days on which no duration of rainfall was registered. There were 45 days on which the duration of rainfall was registered as 0·1 hour to 1·0 hour, 34 days with 1·1 to 2·0 hours, 88 days with 2·1 to 6·0 hours, 61 days with 6·1 to 12·0 hours, and 18 days with more than 12 hours. The day with the greatest duration was June 6th, when the duration was 20·5 hours, the amount falling being 14·3 mm.

Notable Falls of the Year.

(*a*) The greatest amount in a 60-minute period was 30·9 mm., which was recorded between 18h and 19h, June 14th. On the following days 5 mm. of rain fell in 6 minutes : June 14th, June 18th. Falls of 5 mm. in less than one hour occurred on 15 days.

(*b*) Details of the greatest continuous falls are as follows :—

Date.	Amount. mm.	Duration. hrs.
June 14th	47	3·9
June 16th	41	15·5
October 1st	32	19·6
November 3rd	60	16·0
November 23rd	39	20·9
December 3rd	37	13·9

Wet Periods.

(*a*) There were two " rain spells " (*i.e.*, periods of fifteen or more consecutive days on each of which 0·2 mm. or more of rain fell), viz., January 8th to 29th, and February 6th to 27th.

(*b*) There was one " wet spell " (*i.e.*, periods of fifteen or more consecutive days on each of which 1·0 mm. or more of rain fell), viz., January 11th to 25th.

Dry Periods.

(*a*) There were no periods of " absolute drought " (*i.e.* fifteen or more consecutive days on which less than 0·2 mm. of rain fell) or of " partial drought " (*i.e.*, twenty-nine or more consecutive days, the mean rainfall of which did not exceed 0·2 mm. per day).

(*b*) Two relatively dry periods were August 22nd to 31st, and September 18th to 28th.

Amounts in millimetres, for periods of sixty minutes, between the exact hours, Greenwich Mean Time.

213. Eskdalemuir : H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 242·0 metres + 0·4 metres. **January, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	·1	...	...	...	...	...	0·4	0·4
4	1·0	·2	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·4	1·2
5	...	...	...	...	...	...	...	(·1)	(⌴)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·7	1·5	·3	...	...	...	...	2 7	2·9
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	...	0·3	0·3
10	...	...	...	·3	...	...	...	...	...	...	...	...	...	·1	·2	...	...	...	...	...	...	...	...	·2	0·8	1·6
11	·2	·4	·2	...	·2	·4	·4	·1	(·1)	(·1)	·2	·2	1·8	3·8	·8	·8	·4	·3	...	...	...	...	...	...	10·4	13·6
12	·1	·1	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	·2	1·0	2·8
13	·5	·1	·3	1·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·9	1·4
14	...	...	...	...	...	...	...	...	...	...	·1	·1	1·1	·1	·1	...	...	...	·1	...	·1	·1	...	...	1·8	5·6
15	...	...	...	...	...	...	...	...	...	...	...	...	(·1)	(d_0)	...	...	...	...	...	...	...	...	...	·9	1·0	0·5
16	·7	...	...	·1	·6	...	·1	·2	·2	...	·9	1·6	2·9	2·0	·7	1·0	·2	·1	·3	·3	·8	·2	·1	...	13·0	12·6
17	1·7	1·4	...	·2	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·4	1·2
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·6	·2	·9	1·5	·6	·6	·2	4·8	7·5
19	·2	1·2	·2	·2	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·9	2·7
20	...	·7	...	·4	·2	...	·2	·8	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	...	2·5	3·1
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	1·0	1·0	1·5	·5	·9	1·4	·9	·9	1·2	9·6	9·7
22	1·2	·9	·6	·2	...	...	...	...	...	...	...	...	...	...	...	·4	...	...	...	...	·4	2·4	3·7	4·7	14·5	7·7
23	4·7	3·1	·8	·3	·3	...	·2	...	...	...	...	...	...	...	...	...	...	2·6	·5	·6	·8	·7	...	2·0	**16·6**	8·0
24	1·1	·8	...	·2	·1	·2	2·3	3·2	1·0	...	...	...	·1	...	...	...	...	·2	...	...	...	·2	...	...	9·4	5·4
25	...	·4	·1	·2	·7	·9	·1	...	...	·2	...	...	...	...	·2	·2	·3	...	...	...	...	...	...	...	3·3	2·2
26	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	0·2	0·1
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·2	1·1	1·1	·7	3·2	3·3
28	·5	·2	·1	...	·3	...	...	...	...	...	...	...	·3	·5	·6	·6	·6	1·0	·6	·2	...	·2	...	...	5·7	10·5
29	...	...	·3	·9	1·0	·9	·6	·3	·5	·9	·1	...	...	...	...	...	·3	·7	·2	...	...	...	...	...	6·7	11·8
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	·2	·1	·2	·5	·4	·4	1·0	·9	·9	·9	·9	·9	2·7	1·3	·5	...	...	...	11·8	**15·0**
Sum.	**11·9**	9·5	2·7	4·0	3·6	2·5	4·1	4·9	2·0	1·7	1·7	2·3	7·3	7·6	3·8	4·9	4·1	8·9	6·9	4·6	5·7	6·4	7·2	10·1	128·4	131·1
Total Duration.	hr. **8·9**	hr. 7·7	hr. 4·7	hr. 5·5	hr. 4·9	hr. 2·7	hr. 4·9	hr. 4·8	hr. 4·4	hr. 3·2	hr. 4·5	hr. 3·4	hr. 5·0	hr. 4·7	hr. 5·2	hr. 5·7	hr. 7·0	hr. 8·4	hr. 8·0	hr. 4·8	hr. 5·4	hr. 6·1	hr. 5·0	hr. 6·2	hr. 131·1	

214. Eskdalemuir : H_r = 242·0 metres + 0·4 metres. **February, 1931.**

Day	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration 0–24
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	·1	·4	·7	...	·1	...	...	·1	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·5	3·9
2	...	...	...	...	...	...	...	...	...	...	...	...	·7	...	...	...	·1	...	...	...	·1	·8	...	...	1·7	1·8
3	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·2
4	...	...	...	...	...	...	...	...	...	·4	·2	·1	(·9)	...	·1	...	...	...	...	...	...	...	...	(fe)	1·7	2·5
5	(fe)	(·1)	(fe)	(fe)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
6	...	·2	...	...	...	...	·4	·7	·7	·3	·7	1·8	1·5	·3	·1	·1	...	...	...	...	...	(fe)	(fe)	(fe)	6·8	8·8
7	(fe)	(fe)	(·1)	(fe)	(fe)	(fe)	(fe)	...	...	...	·1	·5	1·1	·3	·3	...	...	...	...	...	·1	...	...	...	2·5	4·6
8	(2·2)	(·8)	...	...	...	...	...	1·1	·4	·1	·3	·4	1·8	3·7	2·4	2·4	2·9	1·7	·1	...	...	...	...	...	20·3	12·2
9	·3	·4	·1	·4	·3	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·2	·4	3·2	6·8
10	·8	·8	1·5	3·0	1·3	·5	...	...	...	...	·4	1·0	·6	·1	·3	...	...	...	...	...	...	·4	...	·2	10·9	8·4
11	...	·1	...	...	...	...	...	...	·2	·9	2·0	3·8	6·0	5·7	1·0	·8	·1	·4	1·6	·4	...	(1·1)	(1·5)	·9	**26·5**	10·9
12	1·4	·3	·2	·8	...	·9	·2	...	(p✱°)	(p✱°)	(·1)	...	(p✱°)	(p✱°)	...	...	...	...	...	...	...	...	...	...	3·9	3·8
13	...	·3	·3	·4	·2	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·4	3·9
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·4	·5	1·4	1·1	3·5	4·4
15	·5	·1	...	...	...	...	·1	...	...	...	...	...	...	·8	...	...	1·0	·5	...	1·6	1·7	·3	1·7	...	8·3	4·7
16	·3	·9	·2	...	...	...	...	(·1)	(·5)	(·1)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·1	3·4
17	...	...	...	...	...	·1	·2	·1	·8	2·0	·3	·1	·1	...	...	...	...	...	...	...	...	...	...	...	3·7	5·9
18	...	...	...	...	·7	...	...	...	...	...	...	...	...	...	(·1)	(p✱°)	...	...	...	...	...	...	...	...	0·8	1·0
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	·1	·1	·6	1·0	·8	·4	·4	·1	·5	4·5	7·7
20	1·6	1·8	1·9	1·4	1·3	1·4	·6	1·6	1·2	1·0	(1·4)	1·8	4·3	·1	·3	...	...	...	...	...	...	...	...	...	21·7	**13·5**
21	...	...	...	...	...	...	...	...	...	...	·4	2·7	·2	·8	·1	...	...	...	...	...	·5	·7	·1	...	5·5	3·4
22	·7	...	·3	·5	·5	...	...	...	...	...	...	...	...	·1	·2	·1	...	·2	1·4	...	...	...	...	...	4·0	4·5
23	...	...	...	...	...	...	...	(·2)	(·3)	(·2)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	2·6
24	...	...	...	...	...	...	...	...	...	...	...	·4	1·9	1·3	3·5	1·3	1·5	·3	·2	·2	·6	...	...	...	11·2	7·6
25	...	...	...	...	...	...	...	·1	·2	·2	...	...	·5	·4	·2	·4	...	...	...	...	·2	·2	...	...	2·4	7·6
26	·6	·8	·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·8	2·6
27	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	·4	...	...	·3	...	...	0·8	1·3
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	0·1	0·2
Sum.	8·4	6·7	5·4	7·2	4·3	3·1	1·7	3·9	4·6	5·3	6·0	12·6	**19·6**	13·6	9·1	5·2	5·8	3·7	4·7	3·1	4·0	4·7	6·0	3·1	151·8	138·2
Total Duration.	hr. 6·7	hr. **9·4**	hr. 7·3	hr. 5·8	hr. 5·3	hr. 4·5	hr. 3·6	hr. 5·7	hr. 7·2	hr. 7·7	hr. 5·1	hr. 7·4	hr. 9·0	hr. 6·9	hr. 7·3	hr. 4·8	hr. 3·5	hr. 3·7	hr. 3·7	hr. 3·1	hr. 6·1	hr. 6·7	hr. 3·9	hr. 3·8	hr. 138·2	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts in millimetres, for periods of sixty minutes, between the exact hours, Greenwich Mean Time.

215. Eskdalemuir : H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 242·0 metres + 0·4 metres. **March, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	(✱)	(✱)	(·1)	(✱)	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	·1	...	...	...	...	...	...	...	...	...	·1	...	...	...	·2	...	...	...	...	·1	·1	...	0·6	2·6
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	·3	...	...	...	0·4	0·7
9	...	...	...	...	·4	...	·3	·2	...	...	...	...	...	...	·1	...	·1	...	...	...	...	·2	·1	...	1·4	3·4
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·1	(✱^{0})	(✱^{0})	(✱^{0})	(✱^{0})	(·1)	(✱^{0})	0·3	1·0
11	(✱^{0})	(✱^{0})	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	·2	1·1	(1·4)	(1·5)	·4	1·3	·6	·9	·8	·2	1·5	·8	·9	·4	...	...	...	...	...	...	**12·0**	**11·0**
14	·2	...	...	·4	(1·2)	(1·2)	(·6)	...	·1	(✱^{0})	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·7	3·5
15	...	...	...	...	...	...	...	...	...	·9	...	1·1	...	...	...	...	...	...	...	...	...	...	...	·1	2·1	1·4
16	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·5
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	·3	...	...	·1	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6	2·4
21	...	...	...	...	1·1	·8	·1	...	...	...	...	1·0	·5	·9	·1	...	...	...	...	...	...	·1	·1	·1	4·8	8·3
22	·1	·1	...	...	...	·1	·1	(fe)	(fe)	(fe)	(fe)	(fe)	(·1)	(●^{0})	(fe)	(fe)	(fe)	...	...	...	...	...	...	...	0·5	4·0
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(·5)	·5	·2	1·2	2·5
30	·2	·1	...	...	...	·1	...	...	...	...	...	(·2)	...	...	...	...	...	...	...	...	...	...	...	...	0·6	1·5
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	0·5	0·2	0·4	0·4	3·0	**3·4**	2·7	1·7	0·5	2·3	0·6	3·2	1·5	1·1	1·7	0·8	1·3	0·6	...	...	0·3	0·9	0·9	0·4	28·4	42·8
Total Duration.	hr. 1·7	hr. 1·8	hr. 1·4	hr. 0·6	hr. 2·7	hr. **4·5**	hr. 4·0	hr. 1·3	hr. 1·0	hr. 1·6	hr. 0·5	hr. 2·3	hr. 1·8	hr. 1·2	hr. 2·1	hr. 1·0	hr. 1·9	hr. 2·0	hr. ...	hr. ...	hr. 0·4	hr. 3·5	hr. 3·5	hr. 2·0	hr. 42·8	

216. Eskdalemuir : H_r = 242·0 metres + 0·4 metres. **April, 1931.**

Day	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	·2	·6	·4	·7	·8	...	...	·8	1·1	·8	·8	·3	·1	·1	·3	·2	...	...	...	7·2	**11·1**
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	...	...	...	...	...	4	·6	2·3	3·7	2·1
5	...	...	...	·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	0·5
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	·1	·1	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	·1	·3	(·3)	(·2)	·1	...	1·7	6·7
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·6	1·4	2·0	1·4
12	1·3	·4	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	1·1	...	...	...	...	...	...	...	2·9	2·3
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	·2	...	...	...	...	...	0·7	0·6
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	·2	·2	·2	...	...	...	...	...	...	...	...	...	1·1	·9	·7	·2	·1	...	...	...	...	...	...	...	3·6	4·7
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·1	·2	·6	1·6	1·0	·1	3·7	5·5
17	·2	·1	...	...	...	...	...	...	...	...	...	...	·8	...	...	...	2·2	2·9	1·5	2·3	2·6	1·7	·9	·2	**15·4**	8·3
18	...	...	·1	·2	...	...	...	...	...	...	...	·5	...	·3	...	·4	...	...	...	...	...	...	...	...	1·5	2·6
19	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·4
20	...	...	...	...	...	...	...	...	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·4
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	·2	·1	·4	...	·4	...	...	...	...	2·1	1·8
23	...	...	·5	·6	·3	·8	·6	1·0	1·1	·3	...	...	...	...	...	·4	·2	2·8	·8	...	·1	·1	...	·1	9·7	9·1
24	...	·2	1·0	·2	·1	·4	...	...	...	...	...	...	...	·4	·4	...	1·5	·1	1·5	...	...	...	...	...	5·8	5·1
25	...	...	...	·6	·9	...	1·0	·1	·6	·6	·7	·2	...	...	...	...	...	...	...	·1	·3	·7	1·3	2·7	9·8	10·5
26	·2	...	·1	1·1	·1	·1	·2	·3	·6	·3	·5	·2	·2	...	...	...	...	...	...	...	...	...	...	...	3·9	7·6
27	...	...	...	...	...	...	...	·1	(2·3)	...	·2	·1	·1	·3	...	...	...	...	...	...	...	...	...	...	3·1	3·6
28	...	...	...	...	...	...	...	...	...	...	...	...	·5	·9	...	...	...	...	...	...	...	...	...	...	1·4	0·8
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·1	...	·1	...	...	...	...	...	...	0·3	0·9
Sum.	2·2	1·0	2·1	3·5	1·4	1·5	2·4	1·9	5·3	2·3	1·4	1·0	3·5	3·9	3·0	2·5	5·5	**7·4**	4·3	3·6	4·1	4·7	4·5	6·8	79·8	86·0
Total Duration.	hr. 2·2	hr. 3·6	hr. 3·9	hr. **6·2**	hr. 2·7	hr. 2·2	hr. 2·6	hr. 2·9	hr. 4·4	hr. 3·1	hr. 3·0	hr. 3·5	hr. 3·2	hr. 2·9	hr. 3·0	hr. 3·6	hr. 3·1	hr. 4·1	hr. 3·9	hr. 3·7	hr. 4·5	hr. 4·8	hr. 5·0	hr. 3·9	hr. 86·0	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts in millimetres, for periods of sixty minutes, between the exact hours, Greenwich Mean Time.

217. Eskdalemuir : H_r (height of receiving surface above M.S.L.)=H (height of station above M.S.L.)+ h_r (height of receiving surface above ground) = 242·0 metres + 0·4 metres. **May, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	·1	·1	·3	...	·2	·9	...	...	...	·8	...	...	...	...	...	...	...	...	...	2·4	2·5
2	...	...	...	...	...	...	...	...	...	...	...	...	(▲^{0})	(·1)	...	...	...	...	...	...	...	...	...	...	0·1	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	·5	...	...	...	...	...	...	...	...	...	...	·1	1·8	2·8	1·2	6·4	3·4
6	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	...	...	...	...	...	...	...	0·8	0·4
7	...	...	...	...	...	...	...	...	...	...	...	...	5·2	...	...	...	...	...	...	...	...	...	...	...	5·2	0·3
8	...	...	...	...	...	...	·9	·7	·1	1·0	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	2·9	3·7
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	·6	·4	(·8)	(1·2)	·6	·6	·3	·1	·2	·6	...	1·4	2·8	1·0	·7	1·0	·6	1·8	2·1	1·0	·2	·2	18·2	**18·6**
11	·1	1·5	1·9	3·5	2·0	(2·9)	·7	1·0	...	...	...	...	...	·6	...	1·9	...	...	·9	...	...	...	...	·1	17·1	6·7
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	·4	...	...	...	·1	·7	·7	·6	·3	1·5	1·2	...	...	...	...	...	...	5·5	5·5
14	...	...	...	1·1	3·1	·2	...	...	...	...	·1	·3	...	...	...	...	...	·8	1·9	1·2	...	·3	·2	·1	9·3	5·0
15	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·6
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	·6	...	...	...	...	...	1·6	1·2
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	·3	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	0·5
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·4	...	·1	·2	·2	·2	...	...	...	1·3	3·2
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(·9)	...	...	0·9	0·9
24	...	...	...	...	...	...	...	...	·8	1·2	(·3)	(·5)	·9	2·1	1·1	...	...	...	...	...	...	...	...	...	6·9	7·0
25	...	·1	...	...	·3	·1	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	0·6	1·0
26	...	...	...	...	5·8	·4	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6·4	2·0
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	2·9	5·3	4·2	3·6	2·6	·3	...	...	**19·0**	5·9
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·3	...	...	0·4	0·9
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	1·4	1·6	0·8
31	·6	·7	·5	1·3	1·7	1·8	·8	·7	·8	·3	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	9·4	10·6
Sum.	1·1	2·3	3·0	6·6	**13·9**	6·7	3·3	3·7	2·0	3·4	1·9	1·6	6·8	4·9	5·5	3·6	5·6	9·4	8·6	6·8	5·1	4·6	3·2	3·0	116·6	80·7
Total Duration.	hr. 2·4	hr. 2·1	hr. 2·9	hr. 3·9	hr. **5·6**	hr. 4·6	hr. 3·9	hr. 4·1	hr. 3·4	hr. 4·1	hr. 2·7	hr. 2·3	hr. 2·3	hr. 3·0	hr. 3·5	hr. 2·7	hr. 2·7	hr. 4·1	hr. 3·8	hr. 3·4	hr. 3·4	hr. 4·4	hr. 2·1	hr. 3·3	hr. 80·7	

218. Eskdalemuir : H_r = 242·0 metres + 0·4 metres. **June, 1931.**

	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	·1	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·5
2	...	...	...	...	...	...	...	...	...	...	·2	·2	·2	1·2	1·2	2·8	2·0	3·1	1·5	1·0	2·2	2·2	2·1	1·0	20·9	12·9
3	·6	·4	...	...	...	...	...	...	...	...	...	...	...	·8	1·1	...	...	·6	·4	·7	·2	·2	·2	·3	5·5	10·2
4	·2	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	2·5
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	·3	·3	·4	·3	·1	·8	·5	1·2	·7	·4	·8	·7	·6	·8	·8	1·6	·6	·4	·4	·8	·7	·4	·7	...	14·3	**20·5**
7	...	...	...	...	...	1·2	·1	·3	·3	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	2·2	3·2
8	...	...	...	...	...	...	...	·2	·5	·4	·4	·4	...	...	1·1	...	·4	...	...	...	...	...	...	...	3·4	2·4
9	...	...	...	·4	...	...	·2	...	...	...	...	...	...	...	·7	3·5	1·5	·2	...	...	·7	...	·2	·2	7·6	4·2
10	...	...	...	...	...	...	...	...	...	...	...	2·2	4·2	2·4	2·2	4·1	2·9	3·1	4·8	1·4	1·6	1·6	·6	·4	31·5	11·4
11	·6	2·1	·1	...	·1	·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·6	3·4
12	...	...	...	...	...	...	...	...	·4	·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·9	0·6
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·3	·1	·1	1·5	1·2
14	1·1	·5	·3	·3	·2	...	...	...	...	·1	4·1	·4	·2	2·7	2·9	·6	·2	9·0	30·9	5·9	1·4	...	1·0	1·8	**63·6**	11·4
15	2·5	·3	·1	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·8	1·4	1·6	2·4	3·9	5·1	18·5	8·1
16	3·7	3·7	3·4	2·2	2·8	3·7	3·4	2·2	·6	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25·8	9·3
17	...	...	...	...	...	·4	...	...	...	...	...	·9	·1	...	...	...	·4	...	1·8	·4	...	...	...	·8	4·8	2·1
18	·3	1·1	...	...	·6	·4	·4	·6	·1	...	·4	5·3	16·1	6·8	5·5	...	...	·2	·3	·7	·5	...	...	...	39·3	9·1
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	·1	·1	·3	·4	·1	·4	·1	...	...	·1	...	...	...	...	...	...	...	...	...	...	·1	·4	2·1	5·4
22	...	·1	·8	2·1	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·1	3·0
23	...	...	...	...	...	·2	·1	·6	1·3	·4	·1	·5	·4	...	...	...	...	...	·6	1·2	·2	·2	·2	...	6·0	8·9
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·5	0·7	1·4
27	...	...	...	...	...	...	...	...	·7	·5	·1	·4	·3	...	...	...	...	...	...	...	...	...	...	...	2·0	3·0
28	·7	·2	...	·1	·3	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·4	3·5
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	·5	·1	·1	...	...	...	1·0	2·1
Sum.	10·0	8·9	5·4	5·8	4·5	7·9	4·8	5·5	4·7	2·6	6·2	11·1	22·1	14·7	15·5	12·6	8·0	17·1	**42·0**	13·6	9·2	8·3	9·3	10·6	260·4	140·3
Total Duration.	hr. 7·4	hr. 7·4	hr. 5·1	hr. 5·5	hr. 4·4	hr. 6·5	hr. 4·3	hr. 4·8	hr. 6·0	hr. 4·4	hr. 2·8	hr. 5·9	hr. 5·2	hr. 5·2	hr. 6·2	hr. 4·2	hr. 4·5	hr. 6·0	hr. **7·9**	hr. **7·9**	hr. 7·8	hr. 6·7	hr. 7·6	hr. 6·6	hr. 140·3	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts in millimetres, for periods of sixty minutes, between the exact hours, Greenwich Mean Time.

219. Eskdalemuir : H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 242·0 metres + 0·4 metres. **July, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·8	·6	·2	1·1	·2	...	...	...	...	2·9	1·8
2	·2	...	·4	·4	·9	3·2	·8	·7	·5	...	...	...	...	...	·7	1·0	...	...	...	...	...	...	...	...	8·8	6·4
3	...	...	...	...	...	...	·2	·4	·5	...	...	·6	2·7	2·4	1·3	1·2	2·6	(·2)	·7	·4	·6	1·0	2·0	3·9	**20·7**	**14·0**
4	1·9	...	1·8	1·0	1·2	·7	...	·1	...	...	...	(2·0)	...	...	...	...	...	...	...	...	...	...	...	...	8·7	4·7
5	...	...	...	...	...	1·4	·6	...	...	...	...	...	...	...	...	...	...	2·9	1·0	...	...	...	...	...	5·9	1·7
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(2·0)	·4	·1	...	...	...	1·0	3·5	1·3
7	1·1	·5	·2	...	...	·1	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	2·0	3·0
8	...	...	...	...	...	...	·4	...	...	·2	1·2	·2	·4	1·5	·9	2·1	·9	1·2	2·4	·2	·1	...	...	...	11·7	10·2
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	0·2	0·4
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	·5	1·6	2·9	·6	·6	1·0	3·3	·2	...	·2	·2	·1	...	...	...	...	...	...	...	...	...	...	...	11·2	8·2
13	...	...	...	...	...	...	...	...	...	...	...	...	...	2·4	...	...	...	...	...	...	...	...	...	...	2·4	0·6
14	...	...	...	...	...	...	...	...	...	...	2·5	1·6	1·0	·1	·4	...	...	...	...	...	...	...	...	...	5·6	1·8
15	...	...	...	·4	2·0	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·7	2·1
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	...	2·4	2·8	1·5
17	3·0	1·7	·2	...	...	...	...	...	·3	...	...	...	1·2	·2	...	...	...	·2	2·6	1·5	·3	1·4	·6	·9	14·1	7·6
18	·3	·2	·1	·3	·1	...	...	...	...	...	...	...	...	...	·2	...	...	·1	...	...	...	...	...	...	1·3	4·5
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·0	...	·2	...	...	...	...	2·2	1·1
20	·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	0·4
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·2	·1	·1	·2	·2	...	...	1·0	3·9
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·4	·3	2·7	1·6	4·4	2·4	·8	12·7	6·1
23	·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	0·4
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·1	·1	...	...	...	...	0·3	1·4
25	...	...	·7	·4	·1	·1	·4	·1	·2	·1	...	...	...	...	...	...	...	·5	·3	(·6)	(·1)	...	...	...	3·6	8·3
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	·6	·1	·3	·2	...	...	...	...	...	·4	1·0	...	·1	·8	·6	...	·2	4·6	2·7	1·0	12·6	7·7
28	·4	·3	·1	·1	...	(·2)	...	...	...	·4	...	·2	...	...	...	...	...	·1	...	...	...	...	...	...	1·8	3·4
29	...	...	...	...	...	...	...	...	...	...	...	...	...	·9	1·4	1·3	·3	·1	·1	·3	·3	·2	...	...	4·9	5·3
30	...	...	...	...	...	...	...	...	...	·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	0·3
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·1	·2	·2	0·6	1·2
Sum.	8·1	3·2	5·1	5·5	5·5	6·7	3·7	4·8	1·7	1·1	3·9	4·8	5·5	7·9	6·1	6·4	4·8	11·0	9·7	6·4	3·5	**12·3**	7·9	10·2	145·8	109·0
Total Duration.	hr. 5·6	hr. 4·1	hr. 5·3	hr. 5·5	hr. 6·3	hr. 4·6	hr. 4·0	hr. 4·6	hr. 2·5	hr. 1·2	hr. 1·5	hr. 2·9	hr. 2·6	hr. 4·4	hr. 5·1	hr. 3·2	hr. 3·6	hr. 7·0	hr. **8·8**	hr. 5·7	hr. 4·7	hr. 5·9	hr. 4·3	hr. 5·6	hr. 109·0	

220. Eskdalemuir : H_r = 242·0 metres + 0·4 metres. **August, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(·1)	(p●°)	...	...	0·1	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	·4	·3	...	...	...	...	...	...	·1	·2	...	...	·1	...	·1	...	...	...	...	...	...	1·2	2·3
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	·4	·7	1·4	1·1	1·6	1·8	·6	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7·7	7·4
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	1·2	·1	...	...	...	...	...	...	...	...	...	...	...	1·3	0·6
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·4	0·5	1·8
15	·2	...	·1	·1	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	2·3
16	...	...	...	...	...	...	...	...	...	1·1	·2	...	...	...	...	...	...	...	...	...	...	·1	·4	·7	2·5	2·0
17	·6	·2	·8	1·4	·2	·3	1·3	2·0	1·8	2·1	1·5	·6	...	...	...	·2	...	...	...	...	...	...	...	...	**13·0**	**10·1**
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	·2	...	1·8	1·7	1·6	...	1·2	2·1	...	...	...	...	...	...	...	...	8·6	3·7
20	...	...	...	·2	·1	1·4	3·4	...	...	...	...	·6	·1	2·0	1·3	...	...	...	...	...	...	·1	·7	...	9·9	5·1
21	...	...	...	...	...	...	...	...	...	·1	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	0·3	1·4
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	1·2	0·9	2·3	3·2	2·4	3·6	**5·3**	2·1	2·0	3·3	3·5	4·4	2·0	2·0	2·5	2·4	...	0·1	...	...	0·1	0·2	1·2	1·1	45·8	36·7
Total Duration.	hr. 2·1	hr. 1·6	hr. 2·1	hr. 3·0	hr. 3·2	hr. 2·1	hr. 3·0	hr. 2·0	hr. 1·3	hr. 2·2	hr. 2·0	hr. **3·5**	hr. 1·1	hr. 0·6	hr. 1·8	hr. 0·7	hr. ...	hr. 0·2	hr. ...	hr. ...	hr. ...	hr. 0·5	hr. 2·0	hr. 1·7	hr. 36·7	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts in millimetres, for periods of sixty minutes, between the exact hours, Greenwich Mean Time.

221. Eskdalemuir : H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 242·0 metres + 0·4 metres. **September, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·3	1·7	1·1	2·3	1·9	**7·5**	4·2
2	·5	·8	1·9	·5	1·0	·4	·1	...	...	...	...	...	...	...	·1	...	·1	·3	·1	·4	...	...	...	...	6·2	**9·1**
3	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	...	(·5)	...	...	·5	·1	...	...	...	·4	1·8	3·1
4	·4	·3	·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·1	2·5
5	...	·6	·4	...	...	...	...	...	...	...	...	...	...	·2	·4	...	...	...	...	...	...	...	...	...	1·6	2·1
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	·3	...	...	...	...	...	0·6	1·1
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	...	...	...	...	...	...	...	...	...	0·3	0·5
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·4	·6	·1	...	...	...	...	...	...	...	2·1	1·2
11	...	...	...	...	...	...	...	...	...	...	...	...	...	·6	2·1	·3	...	...	...	...	...	...	...	...	3·0	1·3
12	...	...	...	...	·1	·8	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	2·1
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	·2	1·6	1·1	·9	1·0	...	...	5·1	5·0
17	·1	·3	·1	·2	·2	·3	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·4	4·8
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·5
30	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	1·4	·6	·4	...	...	...	...	·2	1·4	1·3	5·4	5·0
Sum.	1·1	2·0	2·8	0·7	1·3	1·5	0·4	...	...	...	...	...	0·1	1·1	**5·7**	2·0	0·9	0·8	2·7	1·9	2·6	2·3	3·7	3·6	37·2	42·5
Total Duration.	hr. 2·2	hr. 2·6	hr. **4·0**	hr. 2·0	hr. 2·5	hr. 2·5	hr. 1·1	hr. ...	hr. ...	hr. ...	hr. ...	hr. ...	hr. 0·5	hr. 0·9	hr. 3·3	hr. 2·0	hr. 1·8	hr. 2·6	hr. 3·6	hr. 2·9	hr. 1·6	hr. 2·2	hr. 1·4	hr. 2·8	hr. 42·5	

222. Eskdalemuir : H_r = 242·0 metres + 0·4 metres. **October, 1931.**

Day	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration 0–24
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	1·0	2·3	3·8	3·9	2·2	3·0	1·2	2·7	1·9	1·0	1·2	·3	24·5	11·8
2	·4	·9	·3	·3	·6	1·4	1·9	1·6	·2	·3	...	...	...	...	·8	·5	·2	...	...	·1	·3	·1	...	...	9·9	10·5
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	·3	1·6	1·7	·6	·2	·3	·2	·3	...	...	...	...	...	...	...	...	·1	·3	·2	...	·6	·5	...	...	6·9	9·9
5	...	...	1·1	1·3	·5	·3	...	1·3	·6	·4	...	...	...	...	...	·2	·5	·3	·1	·9	·9	1·0	·9	·2	10·5	12·0
6	·1	·2	·3	·1	·1	...	...	...	...	·2	...	·5	·7	·1	·1	·5	·4	·7	1·8	1·3	·6	3·5	·5	·2	11·9	**14·1**
7	·2	...	...	...	...	...	...	...	...	...	...	...	...	·4	·1	1·2	·3	·2	·1	·2	·6	·8	...	3·5	7·6	3·9
8	·1	...	·6	·1	...	...	...	...	...	·4	...	·5	·6	...	·3	...	...	...	...	·3	1·8	1·9	...	...	6·6	4·7
9	...	...	...	...	...	...	...	...	·5	2·0	1·4	3·6	2·8	6·1	5·3	2·8	1·4	1·2	·1	...	...	...	...	...	**27·2**	9·5
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	1·5	1·1	...	·1	...	...	...	...	...	...	...	...	2·7	2·4
12	...	...	·1	·2	·5	1·6	·1	·3	...	...	...	...	...	...	...	...	...	...	·2	1·2	·3	...	...	...	4·7	7·2
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	·1	·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·9	0·6
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	...	...	...	...	0·4	0·3
24	...	...	...	...	·1	·6	·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·1	1·9
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	·1	·8	·7	·1	·6	·8	...	...	...	·3	·2	...	...	...	3·4	·4	7·4	7·2
28	...	...	...	·2	·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	1·1
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·1	2·4	2·4	3·4	1·2	·3	...	...	...	...	10·8	5·3
30	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·2
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·2	·2	·2	·1	·1	·2	·1	...	...	1·3	5·3
Sum.	1·2	2·7	4·1	2·8	2·9	5·0	2·6	3·5	1·4	4·1	2·1	4·7	7·2	10·8	11·7	**11·8**	7·7	9·6	5·2	7·5	7·2	8·9	6·2	4·6	135·5	107·9
Total Duration.	hr. 3·6	hr. 3·0	hr. 5·3	hr. 4·7	hr. 6·2	hr. 5·0	hr. 2·3	hr. 2·4	hr. 2·0	hr. 3·7	hr. 2·0	hr. 2·6	hr. 4·4	hr. 4·1	hr. 3·7	hr. 6·7	hr. 6·1	hr. **7·1**	hr. 5·7	hr. 6·8	hr. 6·6	hr. 5·7	hr. 4·3	hr. 3·9	hr. 107·9	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts in millimetres, for periods of sixty minutes, between the exact hours, Greenwich Mean Time.

223. Eskdalemuir : H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 242·0 metres + 0·4 metres. **November, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	0·2	0·9
2	...	1·0	·1	·1	...	...	...	...	...	...	...	...	...	...	1·0	4·6	4·2	1·8	·1	·1	·1	...	·3	·1	13·4	7·3
3	...	2·4	1·7	1·4	·3	·8	1·7	2·8	5·0	4·4	·9	8·3	4·6	3·7	7·9	11·5	2·4	·2	...	...	...	...	1·1	2·7	**63·8**	17·2
4	2·0	1·6	3·2	5·8	1·9	·3	...	·3	·4	·1	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	15·8	8·0
5	...	...	...	...	...	...	...	...	·8	5·0	2·9	·2	·4	·2	...	...	...	...	...	...	...	...	...	...	9·5	2·9
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	0·2	0·4
7	...	...	·1	·2	·4	1·2	·8	·9	·3	·3	...	...	1·0	1·0	·4	·2	·4	·8	·2	·2	...	...	...	...	8·4	14·0
8	...	...	...	...	·1	·3	...	...	...	·2	...	...	...	...	...	·4	·9	1·3	·6	·2	...	...	...	...	4·0	5·7
9	...	...	...	...	...	·3	·1	...	...	...	...	·3	·6	·1	·1	1·1	1·2	·9	1·5	·6	...	...	...	...	6·8	6·4
10	...	...	·7	2·6	3·7	1·0	...	...	·1	·1	...	...	·1	1·0	·8	...	·1	...	...	...	·7	·6	·1	·2	11·8	7·4
11	·4	·6	·8	·1	·1	·1	...	...	...	...	...	·1	·1	1·6	·4	·1	...	...	...	...	...	...	...	...	4·4	6·8
12	...	·2	·1	·4	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·8	1·7
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	·3	1·9	2·1	2·2	2·1	·6	1·4	2·3	1·5	·8	·7	1·4	1·2	1·2	1·2	1·2	1·3	1·0	·7	1·3	·8	27·2	**20·3**
15	·8	·2	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·2	3·0
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	·2	·1	...	·3	1·0	·7	...	·9	2·6	2·3	·6	1·3	1·5	1·7	1·0	1·8	2·0	1·6	·4	·2	·2	·1	...	20·5	17·5
19	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·7
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	1·8	...	...	...	...	·2	4·9	7·3	2·7
21	1·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·8	0·6
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	·1	·4	·4	1·7	2·8	3·0	2·5	2·3	1·6	2·3	2·5	2·1	1·0	2·2	2·8	2·7	1·8	2·8	2·3	37·3	18·2
24	1·2	·1	·1	...	...	...	...	...	...	...	...	...	...	...	...	·2	1·0	·3	·2	·6	3·6	1·6	·6	·8	10·4	9·0
25	3·1	4·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·7	1·1	...	...	...	...	...	10·2	3·7
26	...	...	·4	·4	·2	...	·1	·1	...	...	...	...	...	...	...	2·9	6·9	2·4	2·1	2·3	1·7	·5	·1	·3	20·4	11·2
27	·2	·1	·1	·1	...	...	·2	...	...	...	...	·1	1·4	·8	·3	1·6	1·3	·2	·3	...	...	...	...	...	6·7	8·4
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	·1	·5	·1	·2	·3	·4	·4	·3	·4	·3	·1	...	...	...	...	...	...	(fe)	3·1	7·7
30	(·1)	(fe)	(·1)	(fe)	(·1)	...	...	...	...	...	...	...	...	...	...	...	(d$_o$)	(·1)	(d$_o$)	(·1)	(d$_o$)	(·1)	(d$_o$)	(d$_o$)	0·6	...
Sum.	9·6	10·9	7·7	11·4	9·1	7·2	6·3	7·2	9·9	17·1	11·7	14·0	13·0	12·5	16·8	**27·8**	24·0	15·7	11·1	8·8	10·0	5·5	6·6	12·1	286·0	181·7
Total Duration.	hr. 5·8	hr. 8·1	hr. 7·4	hr. 7·9	hr. 7·0	hr. 7·5	hr. 6·1	hr. 6·5	hr. 6·5	hr. 8·2	hr. 5·8	hr. 5·9	hr. 8·3	hr. 8·5	hr. 7·7	hr. 10·5	hr. **12·2**	hr. 11·0	hr. 10·2	hr. 7·3	hr. 6·0	hr. 5·8	hr. 5·4	hr. 6·1	hr. 181·7	

224. Eskdalemuir : H_r = 242·0 metres + 0·4 metres. **December, 1931.**

Day	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration 0–24
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	(d$_o$)	(d$_o$)	(·1)	(d$_o$)	(d$_o$)	...	...	·2	·1	...	...	...	...	...	·1	·8	·6	·4	·6	·8	·6	1·7	·8	·3	7·1	10·3
2	·3	·4	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	2·3	1·8	1·3	1·1	1·0	9·0	9·2
3	1·0	·6	1·3	1·3	1·9	3·8	8·0	7·2	3·7	...	...	·2	1·4	2·1	·4	·4	·4	...	·4	...	...	...	·4	...	**34·5**	13·1
4	·4	1·3	1·2	2·1	2·7	...	...	...	...	...	...	...	·8	1·2	1·0	...	2·2	·4	·1	...	...	...	...	...	13·4	8·7
5	...	...	...	1·5	...	...	...	...	...	...	...	...	·8	3·3	1·2	1·0	·2	...	...	...	...	...	...	...	8·0	3·8
6	...	·4	·9	3·3	2·5	1·9	1·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10·2	5·3
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·2	2·8	4·0	1·8
8	1·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·3	1·5
9	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	0·1	0·1
10	...	...	·9	·3	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·3	2·8
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	0·4	1·0
14	·3	·1	...	·3	·7	·3	·2	·3	...	·1	...	·1	·1	...	...	...	...	...	...	...	...	...	...	...	2·5	7·4
15	...	...	·1	·2	...	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6	1·8
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	·1	·2	·1	·2	·2	·3	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·2	5·4
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	(d$_o$)	(d$_o$)	(·1)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	·2	1·1	3·6	3·4	1·2	·8	·2	·2	·1	·2	1·0	1·3	1·8	2·1	3·3	·9	·8	1·4	1·9	25·5	**16·7**
24	...	...	·2	·7	·3	·6	·6	·5	·1	·2	·1	·1	·2	...	...	...	...	1·1	1·1	·1	·1	...	...	...	6·0	13·1
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	·2	·4	·2	·1	(d$_o$)	...	...	...	...	(·1)	(d$_o$)	...	...	...	...	...	...	...	...	...	...	1·0	3·1
27	...	...	...	·1	...	...	...	·4	...	...	...	...	...	...	...	...	...	...	·6	...	...	...	·3	·2	1·6	2·6
28	...	·6	·8	...	...	·1	1·3	·6	...	·6	·1	...	...	...	...	·1	·8	...	·6	·2	...	...	...	...	5·8	5·8
29	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·5
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·6	0·6	0·8
Sum.	3·2	3·5	6·0	10·3	8·7	7·3	13·0	**13·1**	7·4	2·2	1·0	0·6	3·7	6·7	2·9	3·3	5·5	3·7	6·0	6·7	3·4	3·8	5·2	7·2	134·4	114·8
Total Duration.	hr. 4·4	hr. 4·8	hr. 7·6	hr. **9·2**	hr. 7·7	hr. 7·0	hr. 8·5	hr. 6·1	hr. 3·4	hr. 3·0	hr. 1·9	hr. 2·6	hr. 4·4	hr. 3·4	hr. 2·9	hr. 3·9	hr. 4·1	hr. 3·4	hr. 5·4	hr. 4·0	hr. 3·5	hr. 3·0	hr. 4·5	hr. 6·1	hr. 114·8	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

For periods of sixty minutes, between the exact hours of Local Apparent Time.

225. Eskdalemuir : h_s (height of recorder above ground) = 1·5 metres. **January, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Radiation by Ångström Pyrheliometer. Time G.M.T.	Intensity.	p/p_o sec. Z.	Sky.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%	h. m.	mw/cm²		
1	—	—	—	—	—	·1	·1	·1	...	...	...	...	...	—	—	—	—	—	0·3	4	...	...	...	...
2	—	—	—	—	—	...	·5	·2	1·0	·7	·8	·5	...	—	—	—	—	—	3·7	52	...	...	...	...
3	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	0·0	...	...	...	...	...
4	—	—	—	—	—	...	·3	·9	1·0	·9	·5	·9	...	—	—	—	—	—	4·5	63	...	...	...	...
5	—	—	—	—	—	...	...	·8	·4	·3	...	...	...	—	—	—	—	—	1·5	21	...	...	...	...
6	—	—	—	—	—	...	·7	1·0	1·0	1·0	1·0	1·0	...	—	—	—	—	—	5·7	79	12 12	74	4·81	Clear
7	—	—	—	—	—	...	...	...	...	...	·2	...	...	—	—	—	—	—	0·2	3	...	...	...	...
8	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	0·0	...	...	...	...	...
9	—	—	—	—	—	·2	·2	·2	...	...	...	...	...	—	—	—	—	—	0·6	8	...	...	...	...
10	—	—	—	—	—	...	...	...	...	·5	...	...	...	—	—	—	—	—	0·5	7	...	...	...	...
11	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	0·0	...	...	...	...	...
12	—	—	—	—	—	...	...	...	...	...	·2	...	...	—	—	—	—	—	0·2	3	...	...	...	...
13	—	—	—	—	—	·4	1·0	1·0	1·0	1·0	1·0	1·0	·1	—	—	—	—	—	6·5	**86**	12 11	59	4·39	Haze
14	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	0·0	...	...	...	...	...
15	—	—	—	—	—	...	...	·5	·3	...	...	...	...	—	—	—	—	—	0·8	11	...	...	...	...
16	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	0·0	...	...	...	...	...
17	—	—	—	—	—	...	·6	1·0	1·0	1·0	1·0	1·0	·3	—	—	—	—	—	5·9	77	12 13	73	4·11	Clear
18	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	0·0	...	...	...	...	...
19	—	—	—	—	—	...	·7	·1	...	...	...	...	...	—	—	—	—	—	0·8	10	...	...	...	...
20	—	—	—	—	—	...	·1	·8	1·0	1·0	1·0	·4	...	—	—	—	—	—	4·3	55	12 14	54	4·00	Ci.
21	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	0·0	...	...	...	...	...
22	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	0·0	...	...	...	...	...
23	—	—	—	—	—	...	...	·3	·3	...	...	·2	...	—	—	—	—	—	0·8	10	...	...	...	...
24	—	—	—	—	—	...	...	·2	...	...	...	·2	...	—	—	—	—	—	0·4	5	...	...	...	...
25	—	—	—	—	...	...	·2	·7	·6	·3	·1	...	...	...	—	—	—	—	1·9	23	12 17	58	3·66	Ci.
26	—	—	—	—	...	·6	·4	·5	1·0	·9	·6	1·0	·2	...	—	—	—	—	5·2	63	12 19	74	3·65	Clear
27	—	—	—	—	...	·8	1·0	1·0	1·0	1·0	·9	·1	...	...	—	—	—	—	5·8	70	...	...	...	...
28	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
29	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
30	—	—	—	—	...	·8	1·0	1·0	1·0	1·0	1·0	·8	...	...	—	—	—	—	**6·6**	78	12 19	77	3·43	Clear
31	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
Sum.	—	—	—	—	...	2·9	6·8	10·3	**10·6**	9·6	8·3	7·1	0·6	...	—	—	—	—	56·2	—	—	—	—	—
Mean.	—	—	—	—	...	·09	·22	·33	**·34**	·31	·27	·23	·02	...	—	—	—	—	1·81	24	—	—	—	—

226. Eskdalemuir : h_s = 1·5 metres. **February, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Radiation by Ångström Pyrheliometer. Time G.M.T.	Intensity.	p/p_o sec. Z.	Sky.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%	h. m.	mw/cm²		
1	—	—	—	—	...	...	...	...	...	...	·4	1·0	·7	...	—	—	—	—	2·1	25	...	...	...	...
2	—	—	—	—	...	...	...	·1	·1	·7	1·0	·3	...	...	—	—	—	—	2·2	25	...	...	...	...
3	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
4	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
5	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
6	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
7	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
8	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
9	—	—	—	—	...	...	...	...	...	·7	·1	·1	...	...	—	—	—	—	0·9	10	...	...	...	...
10	—	—	—	—	...	...	...	...	...	·2	...	...	...	...	—	—	—	—	0·2	2	...	...	...	...
11	—	—	—	—	...	...	...	...	...	...	...	...	·4	...	—	—	—	—	0·4	4	...	...	...	...
12	—	—	—	—	...	·6	·6	1·0	1·0	1·0	1·0	1·0	·8	...	—	—	—	—	**7·0**	**75**	...	...	...	...
13	—	—	—	—	...	...	·7	1·0	1·0	1·0	·9	·1	...	...	—	—	—	—	4·7	50	...	...	...	...
14	—	—	—	—	·4	·6	·6	·8	·8	·1	...	...	...	...	—	—	—	—	3·3	35	...	...	...	...
15	—	—	—	—	...	·2	·1	·9	·5	·5	·2	·4	...	...	—	—	—	—	2·8	29	...	...	...	...
16	—	—	—	—	...	...	...	...	·6	1·0	·6	·4	...	...	—	—	—	—	2·6	27	...	...	...	...
17	—	—	—	—	...	·4	·3	...	...	·1	·2	...	...	...	—	—	—	—	1·0	10	...	...	...	...
18	—	—	—	—	...	·1	·7	·5	·2	...	...	...	...	...	—	—	—	—	1·5	15	...	...	...	...
19	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
20	—	—	—	—	...	...	...	...	...	...	...	...	·6	·1	—	—	—	—	0·7	7	...	...	...	...
21	—	—	—	—	...	·5	·4	...	...	·6	·7	·9	·5	·2	—	—	—	—	3·8	38	...	...	...	...
22	—	—	—	—	...	...	·1	·5	·1	...	...	...	...	...	—	—	—	—	0·7	7	...	...	...	...
23	—	—	—	...	...	...	...	·2	·1	·7	·6	1·0	·4	...	—	—	—	—	3·0	30	...	...	...	...
24	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	0·0	...	...	...	...	...
25	—	—	—	...	...	...	...	...	...	...	...	·1	...	...	...	—	—	—	0·1	1	...	...	...	...
26	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	0·0	...	...	...	...	...
27	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	0·0	...	...	...	...	...
28	—	—	—	...	...	...	·7	·9	1·0	1·0	1·0	1·0	·6	...	...	—	—	—	6·2	59	12 17	83	2·17	Clear
Sum.	—	—	—	...	0·4	2·4	4·2	5·9	5·4	**7·6**	6·7	6·3	4·0	0·3	...	—	—	—	43·2	—	—	—	—	—
Mean.	—	—	—	...	·01	·09	·15	·21	·19	**·27**	·24	·22	·14	·01	...	—	—	—	1·54	16	—	—	—	—

Hour. L.A.T. | 3 to 4. | 4 to 5. | 5 to 6. | 6 to 7. | 7 to 8. | 8 to 9. | 9 to 10. | 10 to 11. | 11 to Noon | Noon to 13 | 13 to 14. | 14 to 15. | 15 to 16. | 16 to 17. | 17 to 18. | 18 to 19. | 19 to 20. | 20 to 21. | Total for Day. | Per cent. of Possible. | Time G.M.T. | Intensity. | p/p_o sec. Z. | Sky.
Radiation by Ångström Pyrheliometer.

For periods of sixty minutes, between the exact hours of Local Apparent Time.

277. Eskdalemuir : h_s (height of recorder above ground) = 1·5 metres. **March, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Radiation by Ångström Pyrheliometer. Time G.M.T.	Inten-sity.	p/p_o sec. Z.	Sky.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%	h. m.	mw/cm²		
1	—	—	—	...	...	...	·1	·1	·9	·6	·9	·8	1·0	·3	...	—	—	—	4·7	44	...	...	...	...
2	—	—	—	...	...	·7	1·0	1·0	1·0	1·0	·5	·7	·3	·3	...	—	—	—	6·5	61	12 15	84	2·16	Clear
3	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	0·0	...	...	...	...	...
4	—	—	—	...	...	1·0	1·0	1·0	·9	1·0	·2	...	...	·2	...	—	—	—	5·3	49	...	...	...	...
5	—	—	—	...	·1	·8	·1	...	...	...	...	...	...	...	...	—	—	—	1·0	9	...	...	...	...
6	—	—	—	...	·1	·5	·4	·9	·5	·5	·5	1·0	·5	·1	...	—	—	—	5·0	46	...	...	...	...
7	—	—	—	...	...	...	·5	·6	·6	·1	·1	...	...	...	...	—	—	—	1·9	17	...	...	...	...
8	—	—	—	...	·9	1·0	1·0	·3	·1	·2	·3	...	·4	...	...	—	—	—	4·2	38	...	...	...	...
9	—	—	—	...	·1	·9	1·0	1·0	·9	1·0	·8	·4	·8	·6	...	—	—	—	7·5	67	12 11	83	1·98	Clear
10	—	—	—	...	·5	·8	·3	...	...	...	·1	...	...	...	...	—	—	—	1·7	15	...	...	...	...
11	—	—	—	...	·2	·6	·6	1·0	1·0	1·0	·3	...	...	...	...	—	—	—	4·7	41	...	...	...	...
12	—	—	—	·1	1·0	1·0	1·0	1·0	1·0	·8	·9	·5	...	...	...	—	—	—	7·3	64	12 17	84	1·91	Ci.
13	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	0·0	...	...	...	...	...
14	—	—	—	...	...	...	...	...	...	...	...	...	...	·1	...	—	—	—	0·1	1	...	...	...	...
15	—	—	—	...	...	...	...	...	...	...	·1	...	...	...	...	—	—	—	0·1	1	...	...	...	...
16	—	—	—	...	...	...	...	·2	1·0	1·0	1·0	·5	·2	...	...	—	—	—	3·9	33	12 13	79	1·84	Ci-haze
17	—	—	—	...	·6	1·0	1·0	1·0	·9	·5	1·0	1·0	1·0	...	...	—	—	—	8·0	68	12 13	87	1·82	Clear
18	—	—	—	...	·5	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1 0	·2	—	—	—	9·7	82	12 17	75	1·79	Haze
19	—	—	—	...	...	·5	·8	1·0	1·0	1·0	·9	...	...	...	...	—	—	—	5·2	43	12 16	77	1·77	Haze
20	—	—	—	...	...	...	·2	·2	·1	·2	·9	·8	·4	·1	...	—	—	—	2·9	24	...	...	...	...
21	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	0·0	...	...	...	...	...
22	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	0·0	...	...	...	...	...
23	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	0·0	...	...	...	...	...
24	—	—	...	·1	·1	·4	·8	·8	·3	·2	·3	1·0	1·0	·8	...	...	—	—	5·8	47	...	...	...	...
25	—	—	...	·2	·6	1·0	·8	1·0	1·0	1·0	1·0	1·0	1·0	·4	...	...	—	—	9·0	72	12 17	40	1·71	Ci-St.
26	—	—	...	·5	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·5	...	—	—	**11·0**	**88**	12 15	88	1·69	Clear
27	—	—	...	...	...	·3	·7	1·0	1·0	1·0	·9	1 0	·8	·7	...	...	—	—	7·4	59	12 17	48	1·66	Ci-Cu.
28	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	0·0	...	...	...	...	...
29	—	—	...	...	·8	...	...	...	·1	·3	...	...	...	...	...	...	—	—	1·2	9	...	...	...	...
30	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	0·0	...	...	...	...	...
31	—	—	...	...	...	·2	1·0	1·0	1·0	·8	1·0	1·0	1·0	1·0	·4	...	—	—	8·4	65	12 15	83	1·60	Clear
Sum.	—	—	...	0·9	6·5	12·7	14·3	15·1	**15·3**	14·2	13·7	11·7	10·4	6·6	1·1	...	—	—	122·5	—	—	—	—	—
Mean	—	—	...	·03	·21	·41	·46	·49	**·49**	·46	·44	·38	·34	·21	·04	...	—	—	3·95	34	—	—	—	—

228. Eskdalemuir : h_s = 1·5 metres. **April, 1931.**

Day	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Time G.M.T.	Inten-sity.	p/p_o sec. Z.	Sky.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%	h. m.	mw/cm²		
1	—	—	...	·8	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·3	...	...	...	...	—	—	8·1	62	...	...	...	...
2	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	0·0	...	...	...	...	...
3	—	—	...	...	...	...	...	...	...	...	...	...	...	...	·4	...	—	—	0·4	3	...	...	...	...
4	—	—	...	·5	1·0	1·0	·9	...	...	...	...	...	...	·1	...	...	—	—	3·5	27	...	...	...	...
5	—	—	...	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	...	—	—	**12·0**	**90**	...	...	...	...
6	—	—	...	1·0*	1·0	1·0	1·0	·9	1·0	1·0	1·0	1·0	1·0	1·0	·9	...	—	—	11·8	88	12 29	59	1·51	Ci-St.
7	—	—	...	...	...	·1	...	...	...	·2	·1	...	...	...	...	...	—	—	0·4	3	...	...	...	...
8	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	0·0	...	...	...	...	...
9	—	—	...	...	...	...	...	...	·2	·2	...	·7	1·0	·9	·5	...	—	—	3·5	26	...	...	...	...
10	—	—	...	·5	1·0	1·0	1·0	1·0	·8	·8	·6	·2	·4	...	...	...	—	—	7·3	53	...	...	...	...
11	—	—	...	...	...	...	...	...	...	·2	·5	·8	·8	·2	...	...	—	—	2·5	18	...	...	...	...
12	—	—	...	...	...	...	...	...	·1	·2	·9	·6	·2	·1	·3	·1	—	—	2·5	18	...	...	...	...
13	—	—	·5	1·0	·9	·3	·7	...	·4	·7	·6	·1	...	...	...	...	—	—	5·2	38	...	...	...	...
14	—	—	...	...	...	...	...	...	...	...	·1	·2	...	...	...	...	—	—	0·3	2	...	...	...	...
15	—	—	...	...	...	...	·3	...	...	...	...	...	...	...	...	...	—	—	0·3	2	...	...	...	...
16	—	—	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	0·2	1	...	...	...	...
17	—	...	·6	1·0	1·0	·6	1·0	·5	...	·9	·9	·9	·1	...	...	...	...	—	7·5	53	...	...	...	...
18	—	...	...	·8	·8	·8	·6	·6	...	...	...	...	...	·6	·7	...	...	—	4·9	34	...	...	...	...
19	—	...	·6	1·0	1·0	·9	1·0	1·0	·1	·9	·8	·9	·2	·5	·7	...	...	—	9·6	67	...	...	...	...
20	—	...	...	·8	·9	·5	·6	·6	·9	·8	1·0	1·0	1·9	·7	·9	·4	...	—	10·0	70	...	...	...	...
21	—	...	·2	...	...	·2	·8	·9	·2	...	·2	...	...	·3	·3	...	...	—	3·1	21	...	...	...	...
22	—	...	...	...	...	...	...	...	...	·5	·2	·3	...	·4	·1	...	...	—	1·5	10	...	...	...	...
23	—	...	...	...	...	...	·2	·4	·8	·6	·2	...	...	·1	...	...	...	—	2·3	16	...	...	...	...
24	—	...	·1	·5	·9	·8	·5	·9	·1	·1	...	...	·1	...	...	...	...	—	4·0	27	...	...	...	...
25	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	0·0	...	...	...	...	...
26	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	0·0	...	...	...	...	...
27	—	...	...	...	...	...	...	...	·3	·4	1·0	1·0	1·0	·4	·8	...	...	—	4·9	33	...	...	...	...
28	—	...	...	...	...	1·0	·9	·9	·2	·2	·2	·7	·8	·9	·1	...	...	—	5·9	39	...	...	...	...
29	—	...	1·0	1·0	1·0	1·0	1·0	·5	·2	...	...	...	...	...	...	·3	...	—	6·0	40	...	...	...	...
30	—	...	...	...	...	·4	1·0	·9	·2	...	...	...	...	·1	·3	...	...	—	2·9	19	...	...	...	...
Sum.	—	...	3·2	9·9	11·5	11·6	**13·5**	11·1	7·5	9·7	10·3	9·7	7·5	7·3	7·0	0·8	...	—	120·6	—	—	—	—	—
Mean.	—	...	·11	·33	·38	·39	**·45**	·37	·25	·32	·34	·32	·25	·24	·23	·03	...	—	4·02	29	—	—	—	—
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Time G.M.T. Radiation by Ångström Pyrheliometer.	Inten-sity.	p/p_o sec. Z.	Sky.

* Estimated—Frost on sunshine ball.

For periods of sixty minutes, between the exact hours of Local Apparent Time.

229. Eskdalemuir : h_s (height of recorder above ground) = 1·5 metres. **May, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Radiation by Ångström Pyrheliometer. Time G.M.T.	Intensity.	p/p_o sec. Z.	Sky.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%	h. m.	mw/cm²		
1	—	...	...	...	4	1	·8	·7	·9	·5	·6	·3	·9	·9	·5	...	...	—	6·6	44	...	...	...	...
2	—	...	...	·4	·5	·3	·5	·6	·6	·3	·4	·5	·7	·5	1·0	·9	...	—	7·2	47	...	...	...	...
3	—	...	...	·5	1·0	1·0	1·0	·6	1·0	·6	·6	·6	·4	...	·1	...	...	—	7·4	48	...	...	...	...
4	—	...	...	...	·2	1·0	1·0	1·0	1·0	·8	·1	1·0	1·0	1·0	·7	·1	...	—	8·9	58	11 59	76	1·26	Ci.
5	—	...	...	·2	·5	·1	·3	·3	·9	·8	·6	1·0	·9	·5	...	...	...	—	6·1	39	...	...	...	...
6	—	...	·8	·6	·2	·1	·7	·5	1·0	·4	...	·1	·1	·3	...	...	...	—	4·8	31	...	...	...	...
7	—	...	...	·8	·5	·1	...	...	...	...	...	...	...	·2	...	...	...	—	1·6	10	...	...	...	...
8	—	...	...	...	...	...	...	...	·3	·9	·8	1·0	1·0	1·0	1·0	·7	...	—	6·7	43	...	...	...	...
9	—	...	·5	1·0	1·0	1·0	1·0	1·0	·8	·6	·9	...	...	...	...	...	...	—	7·8	50	...	...	...	...
10	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	0·0	...	...	...	...	...
11	—	...	...	...	...	·7	·9	·8	·2	·5	·5	1·0	·4	·3	...	·4	...	—	5·7	36	...	...	...	...
12	—	...	...	...	...	·2	·2	...	·1	...	...	·3	·2	...	...	...	...	—	1·0	6	...	...	...	...
13	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	0·0	...	...	...	...	...
14	—	...	...	...	...	...	·1	...	...	·1	·2	·3	·2	·3	...	...	...	—	1·2	7	...	...	...	...
15	—	...	...	...	...	...	...	...	...	·2	·3	·8	·8	·8	...	·7	...	—	3·6	22	...	...	...	...
16	...	...	...	...	·7	·6	·9	1·0	1·0	·6	·8	·4	·1	...	...	...	...	...	6·1	38	...	...	...	...
17	...	...	·1	·3	·8	...	...	·2	·4	1·0	·8	·4	·8	...	...	...	...	...	4·8	30	...	...	...	...
18	...	...	...	·2	·7	1·0	1·0	·8	·6	·5	·2	·7	·6	1·0	·6	...	...	...	7·9	49	...	...	...	...
19	...	...	...	...	...	...	·8	·1	·1	·3	·2	·6	...	·3	·9	·7	...	...	4·0	25	...	...	...	...
20	...	...	·9	1·0	1·0	·6	·3	...	·2	...	·4	·4	...	...	...	·2	...	...	5·0	31	...	...	...	...
21	...	·2	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·8	·8	·9	1·0	1·0	...	...	**13·7**	**83**	...	...	...	...
22	...	...	·5	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	4	...	...	...	...
23	...	...	·2	·9	·2	...	·1	...	...	...	...	...	...	...	...	...	...	...	1·4	8	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·1	...	...	...	0·3	2	...	...	...	...
25	...	...	...	...	·2	1·0	·9	·8	·2	·4	·9	·9	·9	·9	·9	·9	...	...	8·9	54	...	...	...	...
26	...	...	...	...	...	·2	...	·4	·7	·9	1·0	1·0	1·0	1·0	1·0	1·0	·5	...	8·7	52	...	...	...	...
27	...	...	·8	·8	...	·5	·6	·8	·6	·9	·8	·6	·9	·7	·7	...	...	...	8·7	52	...	...	...	...
28	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	0·2	1	...	...	...	...
29	...	...	·1	1·0	·9	1·0	·8	·4	·9	1·0	1·0	·8	·1	·9	...	...	...	...	8·9	53	...	...	...	...
30	...	·1	·8	·9	·6	·2	·1	...	...	...	·8	·7	...	...	...	...	...	...	4·2	25	...	...	...	...
31	...	...	...	...	...	...	...	...	·1	...	...	...	·2	...	...	...	...	...	0·3	2	...	...	...	...
Sum.	...	0·3	5·7	9·8	10·4	10·7	13·0	11·0	12·6	12·5	12·9	**14·2**	12·0	11·7	8·5	6·6	0·5	...	152·4	—	—	—	—	—
Mean.	...	·01	·18	·32	·34	·35	·42	·35	·41	·40	·42	**·46**	·39	·38	·27	·21	·02	...	4·92	31	—	—	—	—

230. Eskdalemuir : h_s = 1·5 metres. **June, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Time G.M.T.	Intensity.	p/p_o sec. Z.	Sky.
hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%	h. m.	mw/cm²		
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·0	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·0	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·0	...	...	...	...	...
4	...	...	...	...	...	·6	1·0	1·0	·9	·2	...	·4	...	...	...	...	...	...	4·1	24	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	·7	·4	·2	...	...	...	...	...	1·3	8	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·0	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·0	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	·3	...	...	...	...	...	...	...	...	0·3	2	...	...	...	...
9	...	...	...	...	...	·4	...	...	...	...	...	...	...	...	...	...	...	...	0·4	2	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·0	...	...	...	...	...
11	...	...	...	...	...	...	...	...	·6	1·0	·9	1·0	1·0	·4	...	·3	·4	...	5·6	32	...	...	...	...
12	...	...	...	...	...	...	...	...	·6	·1	...	...	...	·3	·3	·5	...	...	1·8	10	...	...	...	...
13	...	·1	·7	·3	·5	1·0	1·0	·7	·9	·9	·2	·1	...	...	...	...	...	...	6·4	37	...	...	...	...
14	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	0·2	1	...	...	...	...
15	...	·1	·2	·2	·8	1·0	·3	·2	·1	...	...	·3	·2	...	...	...	...	...	3·4	20	...	...	...	...
16	...	...	...	...	...	...	...	·1	·7	·6	·9	·8	·3	...	...	·2	...	...	3·6	21	...	...	...	...
17	...	...	...	...	...	...	...	...	...	·4	·8	·8	·2	·5	·1	...	...	...	2·8	16	...	...	...	...
18	...	...	...	...	...	...	...	·1	...	...	·1	·1	·5	·1	...	...	...	...	0·9	5	...	...	...	...
19	...	...	...	·3	·1	...	...	...	·8	1·0	·7	·2	·6	·4	...	...	...	...	4·1	24	...	...	...	...
20	...	...	...	...	...	...	·1	...	·6	·6	·9	·4	·2	·4	...	...	...	...	3·2	18	...	...	...	...
21	...	...	...	...	...	...	...	...	...	·9	·7	·6	·2	·2	...	...	...	...	2·6	15	...	...	...	...
22	...	...	...	...	...	...	...	·1	·8	1·0	·8	...	·2	1·0	1·0	·3	...	...	5·2	30	12 51	88	1·17	Ci.
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·0	...	...	...	...	...
24	...	...	·1	·7	·9	·9	·8	·8	·9	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·8	...	12·9	74	...	...	...	...
25	...	...	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·9	1·0	1·0	1·0	1·0	·8	...	**14·7**	**85**	11 53	91	1·18	Clear
26	...	...	...	...	...	...	...	...	...	...	·7	...	...	...	...	...	...	...	0·7	4	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	·3	·1	·1	·5	·5	·3	...	...	1·8	10	...	...	...	...
28	...	...	...	·3	1·0	·8	1·0	1·0	1·0	1·0	1·0	·9	1·0	·4	·6	·9	·2	...	11·1	64	11 55	96	1·17	Clear
29	...	...	...	·1	·9	·4	·6	·4	...	·6	·5	·4	·8	...	·4	·5	...	...	5·6	32	...	...	...	...
30	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	0·2	1	...	...	...	...
Sum.	...	0·2	2·0	2·9	5·2	6·3	5·8	5·4	8·9	10·8	**11·2**	8·4	7·5	6·2	4·9	5·0	2·2	...	92·9	—	—	—	—	—
Mean.	...	·01	·07	·10	·17	·21	·19	·18	·30	·36	**·37**	·28	·25	·21	·16	·17	·07	...	3·10	18	—	—	—	—
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Time G.M.T.	Intensity.	p/p_o sec. Z.	Sky.
																					Radiation by Ångström Pyrheliometer.			

For periods of sixty minutes, between the exact hours of Local Apparent Time.

231. Eskdalemuir : h_s (height of recorder above ground) = 1·5 metres. **July, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Radiation by Ångström Pyrheliometer. Time G.M.T.	Intensity.	p/p_0 sec. Z.	Sky.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%	h. m.	mw/cm²		
1	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	0·1	1	...	...	...	...
2	...	...	...	...	...	...	·4	·4	...	...	·1	...	...	...	...	...	...	...	0·9	5	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·0	...	...	...	...	...
4	...	...	...	...	·3	·9	·8	·4	...	...	...	...	·5	·7	·7	·3	...	...	4·6	27	...	...	...	...
5	...	...	...	...	·2	·3	·3	·4	·7	·4	·2	·1	...	...	...	...	...	...	2·6	15	...	...	...	...
6	...	...	...	...	...	...	...	...	·2	·6	1·0	·3	...	...	...	...	...	...	2·1	12	...	...	...	...
7	...	...	...	...	...	·3	·2	...	...	·3	...	·8	·4	·9	1·0	·3	...	...	4·2	25	...	...	...	...
8	...	·2	...	·6	1·0	·5	·8	·9	1·0	·5	·4	·6	...	...	...	...	...	...	6·5	38	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·0	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·0	...	...	...	...	...
11	...	...	...	·2	·4	·2	·1	·5	·2	·3	·9	1·0	1·0	·2	·7	·9	...	...	6·6	39	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	·2	·7	·5	1·0	1·0	·7	·3	...	4·4	26	...	...	...	...
13	...	...	·1	·8	·6	·4	·2	·3	·4	·1	·3	1·0	1·0	1·0	·4	...	...	...	6·6	39	...	...	...	...
14	...	...	·3	·2	...	...	·1	·1	...	·2	...	·2	·7	·7	·5	1·0	·5	...	4·5	27	...	...	...	...
15	...	...	...	...	...	...	·3	·3	·4	·9	1·0	1·0	1·0	1·0	1·0	·6	...	...	**7·5**	**45**	...	...	...	...
16	...	·1	·5	...	·6	1·0	1·0	·9	...	...	·3	·2	·1	...	...	...	...	...	4·7	28	...	...	...	...
17	...	...	·1	·9	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	1·3	8	...	...	...	...
18	...	...	...	...	...	...	·1	...	·1	...	·1	...	·1	·7	·8	·2	...	...	2·1	13	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	·1	·2	...	...	...	...	...	0·3	2	...	...	...	...
20	...	...	...	·2	...	...	·1	...	·5	·3	·4	·3	·5	·4	·3	·3	·4	...	3·7	22	...	...	...	...
21	...	...	...	...	...	·5	·3	...	...	·2	...	...	...	...	...	...	...	...	1·0	6	...	...	...	...
22	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	1	...	...	...	...
23	...	...	...	...	·4	·2	·6	·5	·6	·4	·4	...	·3	·2	...	...	...	...	3·6	22	...	...	...	...
24	...	...	...	...	...	...	...	·2	...	...	·1	·2	...	...	...	...	...	...	0·5	3	...	...	...	...
25	...	...	...	...	...	...	...	...	·6	·1	...	...	...	...	...	...	...	...	0·7	4	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	·4	·1	...	...	...	...	0·5	3	...	...	...	...
27	...	...	...	...	...	...	...	·3	...	...	...	·1	·6	...	...	...	...	...	1·0	6	...	...	...	...
28	...	...	...	...	...	...	...	...	...	·1	·9	·6	·2	...	...	...	...	...	1·8	11	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·0	...	...	...	...	...
30	...	...	...	...	...	·1	·2	...	·4	·6	·3	...	...	·3	·2	·1	...	...	2·2	14	...	...	...	...
31	...	...	...	·2	·3	·1	...	...	...	...	...	...	...	...	...	...	...	...	0·6	4	...	...	...	...
Sum.	...	0·3	1·0	3·1	4·0	4·8	5·5	5·2	5·1	5·1	6·6	7·2	**7·5**	7·2	6·6	4·4	1·2	...	74·8	—	—	—	—	—
Mean.	—	·01	·03	·10	·13	·15	·18	·17	·17	·17	·21	·23	**·24**	·23	·21	·14	·04	...	2·41	14	—	—	—	—

232. Eskdalemuir : h_s = 1·5 metres. **August, 1931.**

Hour L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Time G.M.T.	Intensity.	p/p_0 sec. Z.	Sky.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%	h. m.	mw/cm²		
1	—	...	...	...	...	·5	·4	·8	·3	·3	·3	·1	...	...	...	...	...	—	2·7	17	...	...	...	...
2	—	...	...	...	...	...	...	·1	·1	...	...	...	...	...	...	...	...	—	0·2	1	...	...	...	...
3	—	...	...	...	...	·2	·8	·9	·5	1·0	1·0	1·0	1·0	1·0	1·0	·6	...	—	9·0	57	...	...	...	...
4	—	...	...	...	...	...	·5	·1	·8	1·0	1·0	1·0	1·0	·9	1·0	·9	...	—	8·2	52	12 45	81	1·28	Clear
5	—	...	...	...	...	...	·6	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·1	·3	...	—	8·0	51	...	...	...	...
6	—	...	...	...	·2	·3	·9	·6	·7	·9	1·0	·9	1·0	1·0	·5	·6	...	—	8·6	55	...	...	...	...
7	—	...	...	...	...	...	...	...	·5	·7	·4	...	...	...	...	...	...	—	1·6	10	...	...	...	...
8	—	...	...	...	·5	·8	·4	·2	...	·1	·4	·7	·3	·5	·3	·8	...	—	5·0	32	...	...	...	...
9	—	...	·6	1·0	1·0	1·0	·9	1·0	1·0	·9	1·0	·8	·5	·1	·1	...	...	—	9·9	64	...	...	...	...
10	—	...	...	...	...	·1	·1	·2	...	...	·1	...	·1	·9	·7	·4	...	—	2·6	17	...	...	...	...
11	—	...	...	...	·1	·7	·1	...	...	...	...	...	...	...	...	...	...	—	0·9	6	...	...	...	...
12	—	...	...	·1	...	...	...	...	...	...	·2	·9	·4	·1	·6	·1	...	—	2·4	16	...	...	...	...
13	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	0·0	...	...	...	...	...
14	—	...	...	·3	·2	·8	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·6	·2	...	—	10·1	67	...	...	...	...
15	—	...	...	...	...	...	...	...	...	...	...	·7	·4	·1	·2	·2	...	—	1·6	11	...	...	...	...
16	—	...	...	...	...	...	...	·7	·8	·9	·9	·8	·3	...	·1	...	...	—	4·5	30	...	...	...	...
17	—	...	...	...	...	...	...	...	...	...	...	...	·1	·5	...	...	...	—	0·6	4	...	...	...	...
18	—	...	...	...	·4	·9	·3	·3	1·0	1·0	1·0	1·0	·7	·4	·1	...	...	—	7·1	48	12 55	93	1·33	Fr. Cu.
19	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	0·0	...	...	...	...	...
20	—	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	—	0·2	1	...	...	...	...
21	—	...	...	...	...	...	...	...	...	...	·3	·5	...	...	...	·2	...	—	1·0	7	...	...	...	...
22	—	...	...	·4	·8	·9	...	·2	·2	·3	·3	·5	·9	·2	...	...	...	—	4·7	32	...	...	...	...
23	—	...	...	...	·2	·6	1·0	·4	·4	·3	·9	...	...	·2	...	...	...	—	4·0	28	...	...	...	...
24	—	...	·4	1·0	1·0	·4	·1	·3	·4	...	·2	·1	·2	...	...	...	...	—	4·1	28	...	...	...	...
25	—	...	...	...	·2	·5	...	·1	...	...	...	·2	·2	·2	·1	...	...	—	1·5	10	...	...	...	...
26	—	...	·4	1·0	1·0	1·0	1·0	·8	·9	·9	1·0	·9	1·0	1·0	1·0	·2	...	—	**12·1**	**85**	...	...	...	...
27	—	...	...	·7	1·0	·8	·7	·7	1·0	·6	·7	·8	...	...	...	...	...	—	7·0	49	...	...	...	...
28	—	...	...	...	...	...	·9	1·0	1·0	1·0	·2	·5	·1	·1	...	...	...	—	4·8	34	...	...	...	...
29	—	—	...	...	·3	·6	·3	·5	1·0	1·0	1·0	1·0	·8	...	...	...	—	—	6·5	46	...	...	...	...
30	—	—	...	·9	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·8	1·0	1·0	·4	...	—	—	11·1	80	...	...	...	...
31	—	—	...	...	·7	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·1	—	—	10·8	78	12 0	94	1·43	Clear
Sum.	—	...	1·4	5·4	8·6	12·1	12·0	12·9	14·6	14·9	15·9	**16·2**	13·2	11·2	7·8	4·6	...	—	150·8	—	—	—	—	—
Mean.	—	...	·05	·17	·28	·39	·39	·42	·47	·48	·51	**·52**	·43	·36	·25	·15	...	—	4·86	33	—	—	—	—
Hour L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Time G.M.T. Radiation by Ångström Pyrheliometer.	Intensity.	p/p_0 sec. Z.	Sky.

For periods of sixty minutes, between the exact hours of Local Apparent Time.

233. Eskdalemuir : h, (height of recorder above ground) = 1·5 metres. **September, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Radiation by Ångström Pyrheliometer. Time G.M.T.	Intensity.	p/p_o sec. Z.	Sky.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%	h. m.	mw/cm²		
1	—	—	...	·6	1·0	1·0	1·0	1·0	·9	·6	·1	·3	...	...	...	...	—	—	6·5	47	...	...	...	...
2	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	0·0	...	...	...	...	...
3	—	—	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	—	—	0·2	1	...	...	...	...
4	—	—	...	...	·2	...	...	...	...	...	...	...	...	...	·2	...	—	—	0·4	3	...	...	...	...
5	—	—	...	...	·1	·5	·9	1·0	1·0	·5	·1	·1	...	·1	·3	...	—	—	4·6	34	...	...	...	...
6	—	—	·1	1·0	1·0	1·0	1·0	·6	·8	·5	...	...	...	...	...	...	—	—	6·0	45	...	...	...	...
7	—	—	...	...	...	...	·2	·4	·4	·5	·4	·7	·2	...	·4	...	—	—	3·2	24	...	...	...	...
8	—	—	...	...	...	·2	·2	·3	·4	·7	·6	·1	·4	...	...	...	—	—	2·9	22	...	...	...	...
9	—	—	...	...	·1	·4	·8	·3	...	·6	·5	...	...	...	...	...	—	—	2·7	20	...	...	...	...
10	—	—	...	·4	·3	·6	·5	·9	...	...	·2	...	...	...	...	...	—	—	2·9	22	...	...	...	...
11	—	—	...	·4	1·0	1·0	·7	·4	·5	...	...	...	...	...	...	...	—	—	4·0	31	...	...	...	...
12	—	—	...	...	...	...	·3	·8	·3	...	·3	·4	·7	·7	·6	...	—	—	4·1	32	...	...	...	...
13	—	—	...	·6*	1·0	1·0	·8	·7	·6	...	...	...	...	...	...	...	—	—	4·7	36	...	...	...	...
14	—	—	...	...	...	...	·3	...	...	...	...	...	...	...	...	...	—	—	0·3	2	...	...	...	...
15	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	0·0	...	...	...	...	...
16	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	0·0	...	...	...	...	...
17	—	—	...	...	...	...	...	...	·1	·2	·5	·3	...	...	...	...	—	—	1·1	9	...	...	...	...
18	—	—	...	...	·4	1·0	1·0	1·0	·8	·5	·1	·2	...	...	...	...	—	—	5·0	40	...	...	...	...
19	—	—	...	...	...	·3	...	·1	...	...	...	...	·6	·7	·4	...	—	—	2·1	17	...	...	...	...
20	—	—	...	·3	·9	...	·4	·5	·8	·7	·8	·8	·3	·1	...	...	—	—	5·6	45	...	...	...	...
21	—	—	...	·3	·1	·9	1·0	1·0	·7	·8	·8	·9	·4	·1	...	...	—	—	**7·0**	**57**	...	...	...	...
22	—	—	...	·3	·1	...	...	...	...	·2	·5	·6	...	·1	...	...	—	—	1·8	15	...	...	...	...
23	—	—	...	...	...	...	...	...	...	...	...	...	·4	1·0	·4	...	—	—	1·8	15	...	...	...	...
24	—	—	...	...	...	...	...	...	...	·5	1·0	1·0	1·0	·6	...	...	—	—	4·1	34	...	...	...	...
25	—	—	—	...	...	...	...	...	...	...	·3	·1	...	·3	...	...	—	—	0·7	6	...	...	...	...
26	—	—	—	...	·5	·7	...	...	...	...	...	...	...	...	...	—	—	—	1·2	10	...	...	...	...
27	—	—	—	...	...	·1	...	...	...	...	...	...	...	...	...	—	—	—	0·1	1	...	...	...	...
28	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	0·0	...	...	...	...	...
29	—	—	—	...	...	·5	·8	·4	...	...	...	...	...	...	...	—	—	—	1·7	14	...	...	...	...
30	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	0·0	...	...	...	...	...
Sum.	—	—	0·1	3·9	6·7	9·2	**10·1**	9·4	7·3	6·3	6·2	5·5	4·0	3·7	2·3	—	—	—	74·7	—	—	—	—	—
Mean.	—	—	·03	·13	·22	·31	**·34**	·31	·24	·21	·21	·18	·13	·12	·08	—	—	—	2·49	19	—	—	—	—

234. Eskdalemuir : h, = 1·5 metres. **October, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Time G.M.T.	Intensity.	p/p_o sec. Z.	Sky.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%	h. m.	mw/cm²		
1	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	0·0	...	...	...	...	...
2	—	—	—	...	...	...	...	·3	·1	·4	·2	·2	·1	·1	...	—	—	—	1·4	12	...	...	...	...
3	—	—	—	...	...	·5	...	...	·8	·2	1·0	·9	·4	·2	...	—	—	—	4·0	35	...	...	...	...
4	—	—	—	...	...	·2	·7	·5	1·0	1·0	·9	...	...	...	...	—	—	—	4·3	38	...	...	...	...
5	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	0·0	...	...	...	...	...
6	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	0·0	...	...	...	...	...
7	—	—	—	...	·1	·3	·6	·9	·8	·8	·8	·8	·1	·1	...	—	—	—	5·3	48	12 49	82	2·01	Clear
8	—	—	—	...	...	...	·1	...	...	...	...	...	...	...	...	—	—	—	0·1	1	...	...	...	...
9	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	0·0	...	...	...	...	...
10	—	—	—	...	·1	·7	1·0	1·0	1·0	·7	·7	·6	·2	...	...	—	—	—	6·0	55	...	...	...	...
11	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	0·0	...	...	...	...	...
12	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	0·0	...	...	...	...	...
13	—	—	—	...	·5	1·0	1·0	·7	·7	1·0	·7	·5	·6	·1	...	—	—	—	6·8	64	12 24	82	2·18	Clear
14	—	—	—	...	·4	·6	...	...	·5	·1	...	·2	·4	·2	...	—	—	—	2·4	23	...	...	...	...
15	—	—	—	...	...	...	...	·9	1·0	1·0	1·0	1·0	1·0	·6	...	—	—	—	6·5	62	12 7	83	2·25	Clear
16	—	—	—	...	...	·3	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·5	...	—	—	—	7·8	75	12 9	53	2·27	Haze
17	—	—	—	...	·2	1·0	·8	·8	1·0	1·0	1·0	·8	...	...	...	—	—	—	6·6	64	12 18	53	2·31	Haze
18	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	0·0	...	...	...	...	...
19	—	—	—	...	...	...	...	...	...	...	·1	...	...	...	...	—	—	—	0·1	1	...	...	...	...
20	—	—	—	...	·8	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·4	...	—	—	—	**9·2**	91	12 3	85	2·38	Clear
21	—	—	—	—	·9	1·0	1·0	1·0	·9	1·0	1·0	1·0	1·0	·4	—	—	—	—	**9·2**	91	...	...	...	...
22	—	—	—	—	·6	·8	1·0	1·0	...	·1	·4	1·0	·9	·2	—	—	—	—	6·0	60	...	...	...	...
23	—	—	—	—	...	·1	·7	1·0	·5	...	...	...	...	...	—	—	—	—	2·3	23	...	...	...	...
24	—	—	—	—	·1	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·3	—	—	—	—	8·4	85	12 17	79	2·48	Clear
25	—	—	—	—	·6	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·5	—	—	—	—	9·1	**93**	...	...	...	...
26	—	—	—	—	·2	1·0	1·0	1·0	1·0	1·0	1·0	·7	·8	·1	—	—	—	—	7·8	80	...	...	...	...
27	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
28	—	—	—	—	·5	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·7	...	—	—	—	—	8·2	86	...	...	...	...
29	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
30	—	—	—	—	·6	1·0	1·0	1·0	1·0	1·0	1·0	·5	...	...	—	—	—	—	7·1	75	12 5	82	2·75	Clear
31	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
Sum.	—	—	—	—	5·6	12·5	13·9	15·1	**15·3**	14·3	14·8	13·2	10·2	3·7	—	—	—	—	118·6	—	—	—	—	—
Mean.	—	—	—	—	·18	·40	·45	·49	**·49**	·46	·48	·43	·33	·12	—	—	—	—	3·83	37	—	—	—	—
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Time G.M.T.	Intensity.	p/p_o sec. Z.	Sky.
																					Radiation by Ångström Pyrheliometer.			

* Hoar frost on ball—Estimated duration.

For periods of sixty minutes, between the exact hours of Local Apparent Time.

235. Eskdalemuir : h_s (height of recorder above ground) = 1·5 metres **November, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Radiation by Ångström Pyrheliometer. Time. G.M.T.	Intensity.	p/p_0 sec. Z.	Sky.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%	h. m.	mw/cm²		
1	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
2	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
3	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
4	—	—	—	—	...	...	·1	·4	...	·8	·3	...	...	...	—	—	—	—	1·6	18	...	...	...	...
5	—	—	—	—	...	...	...	...	·3	·1	·2	...	·1	...	—	—	—	—	0·7	8	...	...	...	...
6	—	—	—	—	...	·2	1·0	1·0	·8	·7	1·0	·5	...	...	—	—	—	—	5·2	58	...	...	...	...
7	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
8	—	—	—	—	...	...	...	...	...	·3	...	...	...	...	—	—	—	—	0·3	3	...	...	...	...
9	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
10	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
11	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
12	—	—	—	—	...	·2	1·0	·7	·3	·2	·2	·2	...	...	—	—	—	—	2·8	33	...	...	...	...
13	—	—	—	—	...	...	...	·2	·5	·3	·4	·1	·1	...	—	—	—	—	1·6	19	...	...	...	...
14	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
15	—	—	—	—	...	...	...	·7	·7	·5	...	...	...	...	—	—	—	—	1·9	23	...	...	...	...
16	—	—	—	—	...	...	·9	·8	·2	·2	...	...	...	...	—	—	—	—	2·1	25	...	...	...	...
17	—	—	—	—	...	...	...	...	·1	·2	...	...	...	...	—	—	—	—	0·3	4	...	...	...	...
18	—	—	—	—	—	...	...	...	...	...	...	...	...	...	—	—	—	—	0·0	...	...	...	...	...
19	—	—	—	—	—	...	...	·3	·7	·4	·1	...	...	—	—	—	—	—	1·5	19	...	...	...	...
20	—	—	—	—	—	·4	·9	·2	·5	·5	·3	...	...	—	—	—	—	—	2·8	35	...	...	...	...
21	—	—	—	—	—	·1	·4	·3	·9	·6	·6	1·0	·2	—	—	—	—	—	4·1	51	...	...	...	...
22	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	0·0	...	...	...	...	...
23	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	0·0	...	...	...	...	...
24	—	—	—	—	—	·7	1·0	1·0	·8	·8	...	...	...	—	—	—	—	—	4·3	55	...	...	...	...
25	—	—	—	—	—	...	...	...	·1	·1	...	...	...	—	—	—	—	—	0·2	3	...	...	...	...
26	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	0·0	...	...	...	...	...
27	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	0·0	...	...	...	...	...
28	—	—	—	—	—	...	·1	·1	...	·1	...	·1	...	—	—	—	—	—	0·4	5	...	...	...	...
29	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	0·0	...	...	...	...	...
30	—	—	—	—	—	...	·8	1·0	·5	·3	·8	...	...	—	—	—	—	—	3·4	45	11 59	71	4·35	Clear
Sum.	—	—	—	—	—	1·6	5·4	6·5	**6·9**	6·3	3·4	2·7	0·4	—	—	—	—	—	33·2	—	—	—	—	—
Mean.	—	—	—	—	—	·05	·18	·22	**·23**	·21	·11	·09	·01	—	—	—	—	—	1·11	13	—	—	—	—

236. Eskdalemuir : h_s = 1·5 metres. **December and Year, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Time G.M.T.	Intensity.	p/p_0 sec. Z.	Sky.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%	h. m.	mw/cm²		
1	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
2	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
3	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
4	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
5	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
6	—	—	—	—	—	...	...	·3	·6	·9	1·0	·9	...	—	—	—	—	—	3·7	51	...	...	...	...
7	—	—	—	—	—	·3	·1	...	...	...	...	...	...	—	—	—	—	—	0·4	6	...	...	...	...
8	—	—	—	—	—	...	·3	·2	...	·6	1·0	·4	...	—	—	—	—	—	2·5	35	...	...	...	...
9	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
10	—	—	—	—	—	...	...	...	...	·3	...	...	...	—	—	—	—	—	0·3	4	...	...	...	...
11	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
12	—	—	—	—	—	...	·9	·9	·3	...	...	...	...	—	—	—	—	—	2·1	29	...	...	...	...
13	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
14	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
15	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
16	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
17	—	—	—	—	—	...	...	...	·2	1·0	·9	...	...	—	—	—	—	—	2·1	30	...	...	...	...
18	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
19	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
20	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
21	—	—	—	—	—	...	...	...	...	...	...	·1	...	—	—	—	—	—	0·1	1	...	...	...	...
22	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
23	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
24	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
25	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
26	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...	...
27	—	—	—	—	—	...	...	...	...	·2	...	...	...	—	—	—	—	—	0·2	3	...	...	...	...
28	—	—	—	—	—	...	·1	·8	·7	·2	...	...	...	—	—	—	—	—	1·8	26	...	...	...	...
29	—	—	—	—	—	...	·4	·9	·9	·9	·9	·9	...	—	—	—	—	—	4·9	70	...	...	...	...
30	—	—	—	—	—	·3	1·0	1·0	1·0	1·0	1·0	·8	...	—	—	—	—	—	**6·1**	**86**	12 9	60	4·97	Clear
31	—	—	—	—	—	·2	·7	·6	·6	...	...	...	...	—	—	—	—	—	2·1	30	...	...	...	...
Sum.	—	—	—	—	—	0·8	3·5	4·7	4·3	**5·1**	4·8	3·1	...	—	—	—	—	—	26·3	—	—	—	—	—
Mean.	—	—	—	—	—	·03	·11	·15	·14	**·16**	·15	·10	...	—	—	—	—	—	0·85	12	—	—	—	—
Annual Total.	...	0·8	13·4	35·9	58·9	87·6	108·0	112·6	113·8	**116·4**	114·8	105·3	77·3	57·9	38·2	21·4	3·9	...	1066·2	—	—	—	—	—
Annual Mean.	...	·00	·04	·10	·16	·24	·30	·31	·31	**·32**	·31	·29	·21	·16	·10	·06	·01	...	2·92	24	—	—	—	—
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Time G.M.T. Radiation by Ångström Pyrheliometer.	Intensity.	p/p_0 sec. Z.	Sky.

Direction expressed in degrees from North (E = 90°, S = 180°, W = 270°, N = 360°). Speed in metres per second.

237. Eskdalemuir : H$_a$ (height of anemograph above M.S.L.) = Height of ground above

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	280	3·8	270	3·7	270	1·6	320	5·1	310	7·6	310	7·0	290	4·4	210	3·7	190	3·5	250	5·2	260	5·0	250	5·4
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	230	3·2
4	...	...	...	...	30	1·0	30	1·6	10	3·1	20	2·7	20	2·5	30	2·8	10	3·4	20	4·7	30	2·4	10	3·5
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	190	1·6	230	4·2
9	...	...	130	1·2	...	...	350	1·0	330	6·0	350	2·9	330	3·5	...	...	20	1·3	300	4·0	330	5·5	330	7·5
10	290	2·7	320	4·9	310	5·1	330	3·0	...	...	250	1·8	200	1·2	270	3·1	240	2·2	220	2·8	250	4·5	270	5·0
11	240	5·2	250	5·9	260	5·8	240	5·2	230	7·2	230	6·0	210	5·2	240	6·8	230	6·7	240	6·0	260	7·8	250	7·3
12	250	3·3	260	4·1	210	3·0	220	3·4	210	3·1	270	2·5	220	4·0	240	4·1	220	3·0	230	2·8	210	1·6	290	2·0
13	40	7·0	30	7·5	40	8·2	30	9·9	30	10·6	40	10·5	30	10·5	30	8·5	30	7·5	30	7·2	30	7·6	30	7·2
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180	3·5	220	4·0	220	3·4
15	260	6·7	280	11·4	290	9·2	290	8·6	290	7·2	290	5·9	290	5·6	280	3·3	300	5·2	290	6·0	300	5·8	290	6·6
16	270	9·2	280	10·0	270	9·5	270	10·4	270	10·5	270	11·0	270	11·0	270	11·5	270	12·9	270	14·8	270	13·2	260	13·2
17	290	11·0	290	14·9	300	15·0	310	18·5	310	13·2	310	15·0	310	13·5	320	11·6	310	12·2	320	11·0	330	11·5	330	12·7
18	330	4·0	300	4·1	300	4·4	290	2·3	320	4·0	310	6·4	310	6·4	320	6·8	310	6·3	300	6·2	290	5·0	300	5·1
19	...	...	250	4·6	280	6·1	290	7·2	290	8·0	290	10·7	300	10·5	300	3·0	300	2·4	280	3·1	280	4·0	280	5·2
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	210	(2·1)	280	(5·1)	280	8·4	300	13·0	310	11·5
21	190	1·0	...	...	...	...	200	1·2	180	1·5	200	2·0	210	2·1	240	1·9	210	2·6	200	2·6	200	2·5	200	2·6
22	190	1·6	...	...	230	1·2	260	2·7	300	4·9	290	3·7	230	2·6	220	1·8	240	3·5	220	2·6	220	3·6	220	4·2
23	200	14·1	210	14·4	210	13·0	210	11·7	220	12·1	240	11·0	220	9·6	230	9·5	230	9·2	240	10·1	240	12·5	230	9·1
24	280	8·8	270	11·9	270	12·0	270	12·0	270	13·3	270	15·0	270	13·5	290	11·8	290	13·4	290	11·6	290	11·3	290	10·9
25	270	7·1	260	7·2	280	7·0	280	6·3	290	7·8	290	11·2	290	10·8	290	8·9	290	8·3	280	7·5	290	8·8	300	10·7
26	210	1·7	180	1·0	310	4·6	350	3·1	330	2·1	250	1·9	260	5·0	300	9·0	300	8·2	270	5·3	280	6·3	290	8·1
27	300	5·6	330	7·0	190	1·4	260	0·9	10	0·6	...	...	360	0·5	...	...	...	...	...	...	...	...	170	1·3
28	190	4·8	200	2·0	330	2·0	30	1·9	20	3·0	20	2·4	20	2·5	10	3·7	360	5·4	10	5·2	20	4·9	360	4·2
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	50	1·9	30	2·4	30	3·1	40	3·8
30	10	5·1	20	3·9	20	3·5	20	4·8	40	3·7	20	3·3	20	1·9	30	2·5	360	1·5	20	3·0	10	3·7	40	1·6
31	...	...	...	...	...	...	...	...	...	...	190	5·0	180	5·1	180	5·6	180	7·2	180	8·3	180	8·3	180	7·3
Mean ...	—	**3·5**	—	4·1	—	3·9	—	4·1	—	4·4	—	4·6	—	4·4	—	4·1	—	4·4	—	4·8	—	5·2	—	**5·4**

238. Eskdalemuir : H$_a$ = 235 metres + 15 metres.

Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	170	3·7	...	...	...	...	210	2·8	220	2·1	210	2·7	210	3·5	260	2·5	350	4·8	240	9·2	340	7·7	330	7·0
2	200	1·4	250	2·1	250	3·0	250	3·0	250	4·2	250	4·0	260	4·5	260	4·6	260	4·0	260	4·7	260	4·5	260	4·9
3	40	11·1	40	7·5	30	5·3	40	4·9	40	5·3	30	4·5	40	4·6	30	4·2	30	3·8	50	5·0	50	4·6	50	3·8
4	...	...	...	...	...	...	...	...	200	1·5	220	2·2	200	2·1	200	2·0	240	2·7	220	3·3	200	2·1	190	1·8
5	...	...	...	...	...	...	220	1·6	180	2·1	180	1·7	210	1·6	200	2·1	...	...	...	...	210	1·2	190	2·4
6	180	5·6	190	5·0	190	4·3	190	3·8	180	2·3	190	3·8	190	2·6	190	2·4	190	3·0	200	3·5	210	2·5	230	1·8
7	...	...	...	...	...	...	300	0·8	...	...	...	...	210	2·5	...	...	210	2·9	210	4·8	220	6·1	220	5·8
8	210	6·3	220	8·0	210	8·9	200	8·9	190	6·6	180	7·2	190	7·4	190	7·7	190	7·8	190	8·5	200	7·2	210	6·7
9	210	4·5	210	4·1	220	4·5	200	3·8	190	2·1	200	1·8	170	1·0	240	1·8	300	3·7	190	2·2	210	4·8	200	5·5
10	220	13·5	220	11·9	270	12·4	310	4·5	...	...	...	...	270	2·4	240	3·0	250	7·6	250	8·6	260	8·4	280	8·0
11	260	10·2	260	11·5	260	11·8	250	11·2	240	8·9	240	10·9	240	9·9	230	10·2	230	11·2	210	13·6	210	15·6	210	16·9
12	290	13·7	300	17·8	300	18·7	300	19·5	300	18·0	300	17·8	310	18·8	310	17·2	310	16·5	320	17·2	320	19·0	320	19·8
13	310	9·6	310	9·1	310	9·5	310	8·6	320	8·7	310	5·0	10	1·4	340	5·6	360	7·3	360	7·1	360	5·6	360	6·7
14	350	9·2	340	5·6	350	6·6	340	7·6	330	6·1	360	6·4	300	1·9	350	2·4	340	3·0	180	1·9	340	2·2	290	1·0
15	...	...	210	2·0	290	3·4	290	4·2	290	5·3	280	5·4	280	6·6	280	8·0	290	7·0	280	4·7	280	7·0	270	6·7
16	250	6·1	280	4·5	280	4·5	280	5·8	280	4·4	220	1·8	210	3·4	230	3·8	...	...	...	...	...	...	...	...
17	10	8·3	10	11·3	10	12·0	10	12·6	10	14·1	10	12·2	20	11·5	30	11·0	50	10·6	50	10·2	60	9·6	60	10·0
18	30	10·2	30	10·5	30	11·6	40	10·3	50	9·5	60	6·2	60	5·6	50	5·9	40	5·0	40	5·5	40	5·5	50	5·3
19	...	...	...	...	270	2·2	270	2·4	290	3·0	...	...	230	3·0	190	1·8	220	3·4	230	5·6	240	5·6	240	7·3
20	220	7·2	220	6·7	230	9·6	230	9·9	240	13·5	240	13·7	240	12·8	240	12·9	240	12·2	230	12·2	230	11·6	230	11·4
21	260	6·3	250	5·6	250	8·2	250	9·1	240	7·8	240	7·6	240	8·6	230	7·7	260	6·1	270	7·3	300	5·4	280	8·8
22	250	5·1	260	5·0	250	3·8	230	3·3	230	4·3	250	4·3	240	3·4	210	3·1	200	3·0	220	3·6	260	6·4	240	5·4
23	290	1·5	240	0·6	250	2·8	250	2·4	...	...	...	...	...	...	...	...	220	2·0	210	1·4	290	2·4	190	2·0
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	220	6·5	220	8·0	230	9·4
25	270	7·6	270	8·1	260	7·6	270	6·4	220	3·5	240	5·4	240	6·0	240	8·2	240	8·0	230	6·0	240	6·1	260	10·2
26	260	7·9	280	7·6	290	5·5	300	8·9	310	8·7	310	7·2	10	3·8	150	1·3	360	2·8	330	6·8	340	7·6	320	5·6
27	230	2·3	220	1·8	...	...	230	2·1	220	3·5	240	3·2	220	1·9	230	3·5	230	3·6	230	4·9	240	4·9	240	4·7
28	280	2·5	...	...	10	2·0	...	...	...	...	...	...	10	1·7	80	1·0	...	...	...	...	110	4·6	300	7·9
Mean ...	—	5·6	—	5·3	—	5·8	—	5·7	—	5·3	—	4·9	—	**4·8**	—	4·8	—	5·1	—	5·9	—	6·3	—	6·7
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 235 metres + 15 metres.

January, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day.
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
...	...	190	1·5	180	2·3	220	1·3	190	1·9	170	2·1	...	...	...	...	...	...	...	...	...	...	...	...	0·8	1
250	6·3	250	5·8	260	6·6	270	8·5	270	7·4	190	4·0	270	4·0	240	3·8	200	2·3	170	1·9	...	...	...	...	4·5	2
220	3·0	190	2·8	200	1·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·8	3
360	3·5	360	2·8	60	1·0	360	1·3	360	2·0	340	1·8	10	3·2	40	2·0	...	...	...	...	...	...	...	...	2·0	4
...	...	40	1·1	360	2·0	...	...	...	...	...	...	...	...	...	...	360	1·9	...	...	...	...	...	...	0·6	5
...	...	...	...	...	...	360	1·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	6
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	**0·5**	7
220	5·9	220	5·6	230	5·7	220	4·2	240	7·8	260	8·5	270	6·6	...	...	...	...	360	5·0	40	1·9	10	1·1	2·7	8
340	6·2	350	5·4	350	5·0	330	3·8	310	2·6	330	2·0	20	1·3	160	0·9	240	0·8	...	...	...	...	270	3·6	2·7	9
290	5·3	280	6·3	270	5·9	260	4·0	230	3·0	220	4·1	240	4·5	240	3·4	250	5·2	250	5·6	240	4·8	260	5·6	3·9	10
260	6·9	260	6·2	260	7·2	280	5·0	300	5·2	300	5·2	290	3·1	300	4·4	280	2·6	270	2·2	240	2·3	270	3·1	5·4	11
310	3·6	340	3·5	...	...	10	1·7	10	2·0	30	1·9	20	2·0	10	3·0	10	1·6	30	5·1	30	8·7	30	7·1	3·1	12
30	6·2	20	5·6	10	6·3	10	6·2	20	3·7	10	5·1	10	3·5	20	2·6	90	0·8	40	0·6	...	...	...	...	6·1	13
190	2·2	200	3·2	200	4·2	200	4·4	190	3·9	270	5·9	250	6·0	200	6·0	190	5·5	270	7·3	260	4·8	260	5·5	3·0	14
280	5·4	290	4·7	290	7·9	280	6·0	280	7·8	280	7·6	260	7·4	270	9·8	270	10·3	270	11·4	270	11·6	260	10·3	7·5	15
260	13·4	270	13·4	270	13·8	270	14·0	280	14·5	290	16·0	300	19·0	300	17·2	300	13·9	290	14·0	290	11·7	290	12·0	**12·9**	16
320	11·1	320	10·5	330	10·2	310	10·0	320	9·5	320	7·4	320	6·4	320	6·3	330	8·9	320	9·4	320	8·1	310	7·0	11·1	17
300	4·9	300	3·0	270	0·7	200	0·9	190	1·6	200	1·9	200	2·4	190	2·2	200	2·8	220	2·5	...	...	...	...	3·7	18
290	4·2	320	4·6	210	2·2	300	3·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·5	19
300	8·2	290	4·8	270	2·4	280	2·3	...	...	280	1·1	...	...	210	2·4	...	...	...	...	...	...	...	...	2·8	20
190	2·6	190	3·5	200	3·6	210	3·8	200	2·8	200	3·8	200	4·2	200	3·8	210	3·5	200	3·7	190	2·5	190	2·0	2·5	21
220	4·1	200	2·8	210	4·9	210	5·5	200	6·8	200	7·0	190	8·1	190	8·4	190	8·6	180	8·0	190	8·6	190	9·1	4·6	22
230	10·6	230	8·5	210	7·6	210	8·3	190	5·5	200	9·9	220	9·9	210	7·4	230	7·5	260	9·7	270	10·0	280	12·0	10·1	23
290	10·7	290	9·5	290	9·7	290	9·0	280	10·1	280	8·5	280	8·2	280	7·8	270	8·6	270	9·4	260	7·3	260	7·1	10·6	24
290	7·7	290	8·0	270	8·3	290	6·8	290	6·2	230	3·1	180	4·3	180	2·6	220	1·8	190	1·5	230	1·7	230	1·6	6·6	25
290	8·5	300	10·1	310	11·0	320	11·1	330	8·4	320	9·5	320	7·5	330	5·2	260	4·7	250	3·0	260	4·9	290	3·8	6·0	26
200	2·5	180	2·7	210	2·4	210	1·5	...	...	...	...	180	1·5	170	1·7	170	1·5	50	1·5	180	2·7	190	2·5	1·7	27
360	2·9	20	0·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·2	28
30	3·6	40	3·5	40	5·2	40	5·6	40	6·0	40	7·4	50	8·8	40	8·9	30	8·0	20	7·0	20	5·0	10	6·4	3·7	29
50	1·1	30	1·6	10	1·4	360	1·4	350	1·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·1	30
170	8·0	170	9·1	170	9·2	170	8·6	170	8·8	170	8·4	180	6·4	170	6·3	170	7·1	170	7·4	170	6·8	170	5·6	5·8	31
—	5·2	—	4·9	—	4·8	—	4·6	—	4·3	—	4·4	—	4·3	—	3·8	—	3·6	—	3·9	—	3·6	—	3·6	4·3	

February, 1931.

°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
330	10·0	320	11·0	320	9·5	320	10·0	310	9·4	280	3·4	270	3·7	290	3·1	290	4·2	270	3·6	180	1·8	180	0·9	5·0	1
270	5·3	280	4·7	280	4·8	240	5·0	270	7·3	310	10·0	350	9·7	20	10·2	30	10·5	30	11·5	30	10·5	40	9·6	5·8	2
60	3·0	70	3·5	90	3·0	80	2·9	80	1·4	80	1·8	80	1·6	...	...	...	...	80	0·7	...	...	...	...	3·7	3
190	1·5	180	1·5	180	1·7	220	2·1	220	2·8	...	...	...	...	...	...	180	1·5	210	1·6	...	...	...	...	**1·5**	4
190	3·1	180	4·1	170	3·6	170	4·3	180	4·6	170	5·2	170	5·7	180	6·3	180	5·2	180	4·5	180	5·0	180	5·5	2·9	5
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·0	6
220	5·1	230	5·2	240	4·9	240	6·1	230	5·1	240	6·2	230	4·6	230	3·8	210	3·5	210	4·1	210	5·0	210	5·7	3·4	7
210	9·0	220	10·1	220	11·5	210	10·0	220	9·9	210	7·8	210	7·0	190	4·3	200	4·3	210	4·8	210	5·6	210	4·6	7·5	8
210	6·5	230	8·0	240	9·0	220	7·8	230	8·4	210	7·2	210	6·9	230	10·7	220	11·6	220	12·4	210	12·0	210	12·6	6·2	9
280	8·1	290	8·8	300	9·3	300	8·5	290	8·5	300	8·1	280	9·1	260	9·8	250	9·6	260	9·8	250	9·3	260	10·8	8·0	10
210	18·7	240	13·9	270	9·5	270	10·9	270	8·1	270	10·0	280	8·9	260	10·4	270	10·8	270	12·0	280	11·5	280	12·7	11·6	11
320	21·0	320	19·2	320	16·9	320	13·5	310	10·5	310	9·8	310	10·2	300	9·1	300	9·0	310	9·4	300	9·9	310	9·6	**15·1**	12
360	6·9	360	7·0	350	7·8	330	8·8	330	8·5	340	8·4	350	8·2	360	6·1	360	7·0	10	6·7	10	9·9	360	9·1	7·5	13
270	2·0	250	3·2	240	4·1	220	3·5	210	4·2	200	3·6	220	5·5	230	7·7	220	7·6	210	6·4	220	6·5	220	3·4	4·8	14
280	7·2	280	9·2	270	9·3	270	8·9	270	8·4	260	7·7	250	7·0	270	8·1	250	7·6	240	6·8	250	7·3	250	7·1	6·4	15
...	...	360	1·9	330	1·2	160	0·7	...	...	60	1·8	20	2·1	30	1·8	...	...	30	4·6	20	5·6	10	7·8	2·7	16
60	10·3	50	10·2	50	9·0	50	11·0	50	10·6	50	9·1	50	9·9	50	6·6	40	6·6	30	6·6	30	8·0	30	9·8	10·0	17
60	5·5	50	5·5	50	4·9	50	4·4	50	3·0	50	2·8	40	2·7	40	3·0	50	3·1	60	2·6	80	1·5	90	1·0	5·6	18
240	8·8	230	7·7	230	7·5	240	9·1	240	7·4	230	7·2	230	6·9	230	7·8	230	7·1	230	6·3	230	5·1	230	5·5	5·0	19
280	10·4	280	9·2	280	10·0	270	10·6	260	9·4	260	9·5	260	11·5	260	11·6	250	8·3	260	9·6	260	8·2	250	7·8	10·4	20
290	7·1	280	6·1	290	6·2	270	6·9	260	6·4	270	7·1	270	7·0	270	6·8	260	7·1	270	7·1	270	6·4	250	5·6	7·1	21
230	6·2	240	7·2	240	7·3	250	6·2	260	5·6	270	5·5	280	3·0	300	1·5	300	3·9	130	1·0	180	0·6	190	0·7	4·2	22
360	1·5	150	1·4	320	3·0	60	1·6	320	6·7	270	1·8	300	0·6	...	...	350	0·6	360	2·4	40	1·6	...	...	1·6	23
230	8·9	220	7·3	220	6·6	220	5·7	220	6·5	240	6·6	240	6·6	250	6·2	250	5·8	260	7·1	270	7·7	280	7·5	4·5	24
260	13·6	270	15·2	270	13·2	270	12·3	280	13·1	290	12·6	280	10·2	280	9·5	280	10·2	270	8·1	270	10·8	270	10·4	9·2	25
320	7·6	300	9·1	310	10·6	310	11·0	310	9·1	310	10·1	310	11·1	320	11·0	330	8·1	320	7·5	310	4·3	350	1·6	7·5	26
240	4·9	240	6·5	250	7·1	250	6·1	240	6·0	240	6·8	250	5·5	230	2·3	220	2·3	200	2·1	220	1·6	230	1·7	3·7	27
300	6·2	290	5·0	280	4·9	260	8·5	230	5·6	230	4·0	240	1·6	...	...	10	0·7	10	1·6	360	4·0	360	4·0	2·8	28
—	7·1	—	**7·2**	—	7·0	—	7·0	—	6·7	—	6·3	—	6·0	—	5·7	—	5·6	—	5·8	—	5·8	—	5·6	5·9	—
13.		14		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day.

Direction expressed in degrees from North ($E = 90°$, $S = 180°$, $W = 270°$, $N = 260°$). *Speed in metres per second.*

239. Eskdalemuir : H_a (height of anemograph above M.S.L.) = Height of ground above

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	10	4·5	10	9·1	10	11·7	10	12·2	350	11·0	340	10·5	340	14·3	340	14·6	340	5·2	360	12·0	360	14·4	10	12·8
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	260	4·6	260	7·1	250	7·6
3	...	...	...	...	...	...	40	2·1	20	0·9	...	...	20	1·4	40	2·2	60	2·6	70	2·8	70	2·6	80	3·0
4	60	2·8	90	5·4	70	5·2	70	6·2	70	5·6	80	5·7	80	6·0	80	5·8	110	6·1	120	7·0	130	8·8	130	8·5
5	160	3·8	160	5·3	160	5·1	150	4·3	140	5·5	140	5·5	130	6·5	140	6·8	150	7·5	150	7·8	150	7·6	140	8·3
6	100	6·9	100	6·8	100	5·6	100	4·6	100	5·5	100	9·0	100	9·6	100	8·6	100	9·8	110	10·2	110	11·1	110	11·4
7	70	2·3	60	3·3	60	3·9	70	2·2	60	4·8	60	5·3	60	4·5	50	4·3	60	5·8	70	6·8	80	5·8	90	7·9
8	80	6·6	80	6·9	80	7·4	70	6·6	50	4·1	40	4·5	50	5·3	60	5·6	60	7·3	80	8·5	80	8·0	80	7·7
9	50	5·5	50	5·4	40	4·5	40	5·9	50	6·1	50	5·8	50	5·4	50	4·8	40	5·5	50	5·0	40	5·6	50	6·8
10	20	4·8	20	3·2	30	3·3	30	4·2	20	4·0	20	3·2	10	3·6	30	4·0	20	4·2	30	4·6	20	5·5	20	3·9
11	10	8·3	20	7·8	10	7·4	360	8·9	10	7·0	360	5·4	350	4·1	360	5·5	350	5·7	360	6·7	350	7·0	360	9·1
12	360	2·5	360	3·7	360	4·0	360	5·4	350	5·1	340	6·0	150	2·4	80	2·4	360	5·0	360	3·1	350	2·5	330	2·1
13	...	...	...	...	...	...	200	3·0	200	5·0	190	3·5	200	4·2	220	6·4	230	8·2	250	6·8	350	6·6	240	6·6
14	10	1·0	10	2·7	40	2·4	70	4·4	60	4·1	60	2·1	60	3·0	60	3·9	50	2·0	10	1·1	40	1·4	70	2·5
15	20	0·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	10	4·2	10	3·8	10	3·9	10	2·5	10	2·5	10	2·4	20	2·1	10	1·8	10	1·5	...	...	100	2·1	140	6·5
17	140	5·5	140	4·8	150	4·9	150	3·5	160	2·0	140	3·0	130	2·7	140	3·8	150	5·8	140	7·6	150	7·4	150	6·5
18	10	3·1	10	3·6	20	2·2	10	3·0	20	2·6	20	3·6	20	3·5	40	3·5	50	3·8	60	3·8	70	3·1	120	3·0
19	20	2·2	20	2·5	10	2·4	10	3·0	10	2·8	...	...	...	...	...	...	...	...	...	...	160	2·3	160	3·0
20	...	...	340	1·1	20	0·9	20	1·0	100	0·6	...	...	330	0·9	330	0·9	...	...	...	...	170	4·0	160	4·2
21	30	1·5	10	2·2	30	2·5	30	2·1	30	1·9	...	...	...	...	...	...	...	...	170	2·1	190	2·0	190	2·5
22	200	1·9	...	...	...	...	200	3·4	220	2·1	...	...	...	...	230	3·3	230	3·5	250	4·6	230	3·5	230	4·4
23	210	2·3	230	1·5	280	1·3	290	2·5	290	2·2	360	1·6	...	...	...	...	...	...	60	2·5	60	4·7	70	5·0
24	40	3·9	30	4·3	40	4·8	40	4·9	50	5·2	40	5·0	50	7·3	50	7·6	50	7·8	60	8·6	60	8·6	60	8·6
25	70	6·0	80	3·0	80	2·0	60	0·9	40	1·8	50	4·8	30	3·8	50	5·6	50	6·2	60	4·8	70	5·7	80	5·5
26	10	3·0	360	2·2	260	1·8	360	2·1	360	2·6	10	3·1	20	2·3	20	1·8	60	3·0	80	4·3	80	3·8	60	1·7
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180	2·1	210	3·6	230	4·4
28	360	4·1	360	5·1	10	4·8	40	5·0	50	5·4	50	6·4	60	6·5	60	6·6	60	7·9	70	6·9	70	6·6	70	6·2
29	60	2·7	100	1·8	140	2·5	140	4·0	150	3·8	140	3·4	140	1·9	150	2·9	150	5·4	160	6·2	170	7·5	160	7·0
30	150	2·6	...	...	130	1·2	160	1·7	...	...	100	0·6	100	0·7	90	0·8	80	2·5	110	2·0	110	2·5	130	3·6
31	140	6·3	150	6·2	150	6·8	150	6·0	150	5·6	150	6·1	140	5·6	150	6·0	150	8·0	140	8·5	150	9·6	150	9·5
Mean...	—	3·3	—	3·4	—	3·4	—	3·8	—	3·6	—	3·6	—	3·6	—	4·0	—	4·3	—	4·9	—	5·5	—	5·8

240. Eskdalemuir : H_a = 235 metres + 15 metres.

	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	40	1·1	110	0·6	130	2·7	130	2·9	130	3·9	120	2·2	120	3·3	140	6·0	150	7·2	150	8·7	150	9·4	150	9·3
2	120	8·4	130	7·5	120	7·4	120	6·5	130	8·3	140	7·1	140	6·0	120	5·1	120	4·7	120	5·2	80	4·2	80	3·7
3	...	...	30	2·6	30	1·8	40	3·9	20	4·5	30	4·2	30	5·1	20	4·1	20	5·1	40	5·1	30	4·5	30	5·2
4	...	...	360	1·2	...	...	310	1·4	...	...	200	3·5	190	3·9	200	3·5	230	4·5	270	7·3	280	7·7	280	8·8
5	300	7·0	290	6·0	300	6·0	310	6·1	310	9·0	40	6·8	230	2·5	250	3·6	270	3·5	270	3·8	290	4·4	280	5·0
6	...	...	10	0·9	360	1·0	10	0·6	...	...	...	...	...	...	...	...	60	0·8	160	0·9	180	1·9	210	2·8
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180	1·9	200	3·5	200	4·6
8	180	3·1	170	2·9	170	3·3	180	2·3	180	2·5	180	3·5	170	3·5	170	4·2	170	5·3	170	4·6	190	5·9	200	6·7
9	240	1·9	220	2·4	220	2·2	210	2·0	210	2·3	...	...	...	...	...	...	...	...	170	2·2	220	3·0	220	3·5
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180	3·0	230	6·0	250	6·0	240	6·8
11	230	2·6	180	2·1	170	1·4	160	1·9	240	4·6	170	2·5	140	3·1	210	4·8	240	6·6	200	6·1	210	6·9	240	9·9
12	210	4·2	240	2·8	300	4·1	300	2·7	270	1·5	280	2·1	310	5·1	310	4·3	300	5·0	270	4·6	280	5·3	270	6·2
13	330	7·0	330	7·0	340	5·9	320	7·8	330	4·8	10	1·6	260	2·4	300	4·2	310	5·5	310	9·5	310	12·0	300	11·5
14	310	8·8	320	9·4	320	12·0	320	13·4	310	13·8	320	10·7	50	3·2	330	2·6	360	3·1	360	1·7	320	4·0	310	4·1
15	280	3·5	260	3·8	250	4·1	250	3·8	260	3·5	230	2·3	190	3·4	210	4·7	220	5·6	220	6·7	210	5·8	220	6·8
16	330	4·2	310	1·5	320	6·0	330	5·0	...	...	...	...	280	3·8	290	4·0	300	5·0	290	5·8	280	5·3	270	6·1
17	300	10·1	310	10·8	310	10·6	310	12·5	310	12·1	310	10·9	320	11·1	310	12·7	320	11·3	330	10·0	320	8·4	330	8·2
18	30	13·6	30	13·8	30	11·0	30	10·2	30	11·0	30	10·8	30	12·0	30	14·0	30	14·1	30	13·6	40	11·8	30	10·0
19	40	8·7	40	7·8	40	8·3	50	7·5	40	8·7	40	8·2	40	7·7	40	8·8	50	10·8	60	11·9	60	12·0	60	11·5
20	60	3·8	50	4·5	40	6·1	40	6·7	40	6·7	50	8·0	50	9·5	50	10·0	50	8·8	50	10·5	50	9·3	50	9·5
21	10	4·2	360	2·8	20	4·2	20	2·2	20	2·0	...	...	...	...	...	...	180	2·7	300	3·7	310	2·8	300	2·3
22	310	2·5	310	3·4	300	3·4	300	5·0	300	4·1	300	6·0	310	5·8	300	5·8	300	5·3	290	6·3	290	5·9	290	7·0
23	...	...	...	...	...	...	210	2·0	...	...	...	...	...	...	190	6·2	210	8·5	210	9·0	210	8·5	210	9·0
24	180	3·3	180	3·9	190	4·8	190	5·2	190	3·5	180	3·0	170	3·5	160	5·1	170	5·9	160	6·8	160	6·6	170	7·0
25	130	5·4	140	5·4	130	6·5	130	6·0	120	6·2	110	6·1	120	6·0	110	5·4	110	5·5	120	5·3	120	5·3	120	5·3
26	80	4·8	40	4·2	50	6·0	40	6·3	50	6·7	50	6·4	40	5·5	50	6·8	50	7·5	60	8·1	60	7·9	50	7·5
27	20	4·2	10	4·2	10	4·6	30	1·2	...	...	...	...	...	...	250	4·0	320	2·6	290	7·0	320	10·5	310	10·3
28	270	0·9	330	4·0	320	7·3	320	6·0	310	3·0	320	2·8	320	4·0	310	5·9	290	6·4	310	7·1	310	7·6	340	5·6
29	310	1·3	300	1·1	10	0·3	...	...	20	2·3	...	...	...	...	30	3·0	40	2·9	80	3·0	90	2·3	80	1·3
30	...	...	...	...	...	...	...	...	260	1·8	240	3·0	250	3·1	260	3·8	280	4·6	290	6·8	280	7·4	290	6·4
Mean...	—	3·9	—	4·0	—	4·5	—	4·4	—	4·3	—	3·9	—	3·9	—	4·8	—	5·4	—	6·3	—	6·5	—	6·7
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 235 metres + 15 metres.

March, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
10	11·8	10	10·8	10	11·1	360	10·1	10	7·6	20	6·4	20	6·4	10	7·1	360	6·6	10	5·3	10	3·2	...	...	**9·2**	1
250	8·1	250	6·4	250	8·0	250	5·0	240	3·8	220	3·2	240	2·1	260	3·0	250	2·5	...	...	...	...	...	...	2·8	2
80	4·9	80	4·8	80	4·9	80	4·6	80	5·1	70	4·5	70	4·8	70	3·5	70	2·5	70	3·5	50	3·0	50	3·2	2·8	3
130	8·7	140	8·7	130	8·4	130	7·6	120	6·8	120	6·3	130	6·5	130	5·6	130	5·9	140	4·9	140	5·0	150	3·2	6·3	4
140	7·9	140	8·2	120	7·4	120	6·7	110	5·6	100	7·3	100	6·2	100	6·0	100	5·7	100	7·0	100	6·5	100	6·8	6·4	5
120	11·7	110	10·5	110	11·0	100	10·0	100	8·6	100	7·3	90	5·6	80	3·5	70	2·8	70	3·0	70	2·5	80	2·6	7·5	6
100	7·6	100	8·6	90	7·6	90	6·5	90	6·5	90	5·8	80	6·5	90	6·1	80	6·6	90	7·0	90	6·5	90	5·5	5·7	7
80	6·3	80	6·7	80	6·7	60	5·6	60	6·2	60	5·6	50	4·6	60	5·0	50	5·3	40	5·6	40	5·9	50	7·8	6·2	8
50	7·5	50	7·6	50	6·9	40	5·2	30	4·9	30	4·8	20	3·4	20	2·5	10	3·2	10	3·9	10	6·0	10	6·8	5·4	9
20	3·6	360	5·3	360	4·3	10	3·5	360	5·5	10	6·4	20	8·0	20	7·6	20	8·0	20	9·7	20	9·1	20	8·5	5·3	10
360	8·5	360	8·7	350	6·2	340	6·3	330	3·1	310	2·0	350	3·6	10	2·4	10	3·1	...	...	30	2·3	20	1·6	5·6	11
280	3·0	260	4·0	290	3·1	210	4·9	220	2·5	...	...	310	0·3	360	0·5	330	1·5	...	...	...	...	...	...	2·8	12
240	6·2	230	5·0	240	4·2	260	3·0	300	1·0	...	...	...	...	20	2·0	20	1·5	20	1·5	30	0·5	40	1·0	3·3	13
70	1·5	...	...	...	...	...	...	...	...	...	...	...	...	10	1·0	...	...	...	...	...	...	...	...	1·6	14
...	...	350	0·5	...	...	...	...	...	...	...	...	350	1·4	360	1·1	10	1·5	10	3·3	10	4·1	10	3·9	**1·0**	15
160	7·8	160	9·2	150	9·0	150	7·2	140	5·4	120	6·5	130	7·5	130	8·0	140	6·8	140	6·0	130	6·6	140	8·4	5·0	16
150	6·1	140	6·4	140	6·0	140	5·1	120	2·9	70	2·0	60	2·2	30	2·3	30	2·3	30	1·8	20	1·6	20	2·5	4·2	17
160	3·6	150	4·0	140	4·4	120	3·5	90	2·0	40	1·6	20	1·5	10	3·8	20	4·0	20	3·2	10	3·2	10	2·6	3·2	18
170	5·4	160	5·5	160	5·6	160	5·5	160	4·9	150	4·0	160	2·4	170	3·0	160	3·2	160	1·8	...	...	310	0·6	2·7	19
160	4·8	160	5·8	170	5·3	160	5·0	150	4·1	170	2·0	320	1·5	...	...	330	2·0	350	1·2	...	...	...	...	2·0	20
230	5·5	240	6·5	230	4·7	230	4·5	200	4·7	220	4·7	220	4·3	220	4·1	220	6·4	220	3·5	210	2·2	210	1·5	2·9	21
220	4·5	220	3·0	220	3·8	220	3·2	240	3·9	200	2·3	200	2·2	190	2·4	200	2·5	...	...	...	...	170	1·6	2·5	22
50	5·3	50	5·5	50	6·3	50	5·5	60	6·1	50	5·4	50	6·0	40	4·0	40	3·8	30	3·4	40	4·5	30	4·4	3·5	23
70	6·5	60	7·2	60	9·3	60	8·0	60	4·9	40	4·9	360	4·0	10	4·2	40	4·7	60	6·5	60	6·7	60	7·4	6·2	24
80	4·9	70	4·9	80	5·9	90	5·0	60	5·3	40	2·8	20	4·8	30	5·5	30	4·3	20	4·2	20	3·3	10	2·5	4·4	25
100	1·0	170	2·2	180	1·5	190	2·4	210	2·9	250	1·5	340	1·5	...	...	350	0·7	...	...	...	...	...	...	2·0	26
240	5·8	250	5·6	240	5·3	250	5·6	260	4·1	...	...	170	1·7	...	...	...	...	...	...	...	...	20	1·8	1·9	27
70	7·3	80	7·8	80	7·2	90	5·8	100	5·4	80	6·0	90	6·4	100	5·6	90	4·9	100	4·2	100	4·6	70	3·0	5·8	28
170	8·5	170	8·4	180	8·9	180	8·5	180	6·3	180	6·1	170	5·2	170	5·9	170	4·9	170	4·6	170	4·6	160	5·0	5·2	29
130	5·1	140	6·8	140	6·5	140	7·0	140	6·9	140	7·0	150	7·0	160	8·5	160	9·1	150	8·3	150	9·3	140	9·0	4·5	30
150	9·1	150	9·2	150	9·7	150	9·5	140	8·5	120	5·0	100	4·6	120	4·4	80	1·4	110	3·0	130	3·6	140	2·9	6·6	31
—	6·1	—	**6·3**	—	6·1	—	5·5	—	4·7	—	4·0	—	4·0	—	3·9	—	3·8	—	3·5	—	3·5	—	3·5	4·3	

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°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
150	10·6	150	10·3	150	10·2	140	9·8	140	9·3	120	6·6	110	7·2	120	6·5	120	7·0	110	5·8	120	7·2	120	7·5	6·4	1
70	3·2	70	2·8	40	2·4	20	2·9	10	2·9	20	2·4	30	2·2	...	...	...	...	...	...	...	...	30	1·5	4·1	2
20	5·1	10	4·9	10	3·5	10	3·5	360	2·5	360	1·8	350	2·5	360	0·8	350	0·8	...	...	...	...	...	...	3·1	3
270	10·5	270	10·9	270	8·1	280	7·6	280	10·5	280	8·0	270	8·0	270	10·5	270	10·3	280	8·2	280	5·7	290	4·4	6·0	4
300	5·5	290	5·5	290	5·1	290	5·8	300	5·2	300	3·5	290	3·5	300	4·3	310	4·5	...	...	...	...	...	...	4·6	5
220	2·7	220	3·0	230	3·0	240	3·9	240	4·1	240	3·2	...	...	...	...	...	...	...	...	...	...	...	...	**1·4**	6
200	4·8	200	5·1	220	5·8	230	6·6	210	4·3	210	4·5	210	3·8	200	3·0	200	2·2	200	2·2	220	2·3	190	2·6	2·5	7
230	8·8	230	9·2	230	8·8	210	5·0	200	2·2	210	4·1	220	5·2	220	6·5	230	8·5	220	8·5	230	6·3	220	4·9	5·2	8
240	3·7	250	3·8	290	2·6	290	4·2	290	3·8	310	3·3	350	1·7	...	...	...	...	...	...	...	...	...	...	2·1	9
250	6·6	240	8·3	240	8·5	230	7·8	240	8·0	220	4·5	190	3·9	190	3·0	190	2·6	...	...	170	2·0	200	1·5	3·4	10
230	10·0	230	10·2	210	10·4	220	10·6	220	10·5	220	9·9	220	9·6	220	8·7	210	9·0	220	8·5	220	8·2	210	5·7	6·7	11
270	6·4	260	7·2	280	6·8	290	7·5	280	7·3	290	7·3	290	6·3	300	7·0	320	7·7	310	6·5	310	7·1	320	6·2	5·5	12
290	9·3	280	9·0	280	8·1	280	6·8	260	6·3	230	5·6	230	5·3	280	5·3	290	7·0	290	7·0	300	8·3	300	7·2	6·8	13
320	4·0	300	7·0	280	6·4	280	5·0	290	4·0	290	3·7	300	2·7	290	5·2	290	5·5	290	7·5	290	6·3	280	4·1	6·2	14
210	7·3	210	6·5	230	4·3	280	4·7	310	4·5	350	5·4	340	6·5	330	6·8	340	7·2	340	7·2	340	4·7	340	5·2	5·2	15
270	6·0	280	6·6	270	6·1	280	10·6	280	11·4	270	12·1	260	10·3	260	10·0	260	10·5	280	9·7	300	6·7	300	6·1	6·4	16
360	10·0	360	9·9	360	10·2	360	9·8	340	8·8	10	10·2	20	10·0	20	8·5	20	9·5	20	10·3	30	11·5	30	13·4	10·3	17
40	10·1	40	10·3	50	11·5	50	11·0	50	12·5	50	13·3	50	11·6	40	10·6	40	10·3	40	10·3	40	9·5	40	10·6	**11·6**	18
50	11·9	60	11·0	50	11·0	50	10·9	60	10·9	60	10·2	60	8·1	60	7·5	50	6·3	50	7·3	40	6·3	50	5·1	9·2	19
50	9·6	60	10·0	50	9·2	50	10·1	60	9·5	50	8·5	40	8·1	50	7·8	30	2·4	30	2·6	10	3·5	20	4·6	7·5	20
300	4·7	290	5·0	290	4·5	300	4·2	310	5·0	300	5·0	300	5·0	300	6·3	320	5·5	330	5·4	350	5·0	340	2·8	3·7	21
290	7·6	290	7·4	290	6·0	320	6·6	320	5·3	330	3·2	320	2·0	310	1·7	...	...	...	...	280	1·8	...	...	4·4	22
220	9·2	210	8·3	200	5·9	190	3·6	180	2·8	190	4·3	210	8·1	210	7·9	200	5·0	200	3·4	190	5·0	190	4·2	4·7	23
170	5·7	160	5·1	160	6·8	140	8·2	150	7·3	150	8·4	170	5·5	170	4·2	170	4·9	160	4·9	150	4·2	140	4·2	5·3	24
120	5·2	120	5·6	100	7·7	100	9·0	100	7·6	80	6·5	70	8·5	70	8·7	60	6·9	60	6·6	70	6·0	80	6·6	6·3	25
50	7·0	40	7·1	40	7·7	50	7·1	40	7·4	40	7·5	30	6·7	20	6·4	20	5·5	30	5·0	20	4·3	10	4·1	6·5	26
310	10·0	310	11·6	320	12·1	320	11·9	10	5·6	330	8·1	330	8·4	330	9·8	320	8·3	320	7·0	330	7·7	240	2·8	6·4	27
340	4·4	30	3·1	360	7·0	360	5·9	10	4·6	30	5·2	40	4·4	40	4·4	20	3·6	360	4·1	10	2·5	10	0·3	4·6	28
70	0·5	...	...	230	2·9	250	3·9	250	3·1	250	4·2	280	3·1	320	1·8	310	1·2	330	0·3	...	...	170	1·0	1·7	29
300	7·5	290	5·3	290	4·7	280	4·0	260	5·2	280	5·7	280	6·5	280	5·0	290	3·5	270	2·4	250	3·5	250	4·3	4·0	30
—	6·9	—	**7·0**	—	6·9	—	7·0	—	6·4	—	6·2	—	5·8	—	5·7	—	5·3	—	4·8	—	4·6	—	4·1	5·4	—
13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day

Direction expressed in degrees from North ($E = 90°$, $S = 180°$, $W = 270°$, $N = 360°$). Speed in metres per second.

241. Eskdalemuir : H_a (height of anemograph above M.S.L.) = Height of ground above

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	230	4·0	210	4·0	180	3·8	230	5·0	240	6·7	230	4·9	230	7·3	240	8·1	250	9·1	260	9·4	260	9·6	260	10·3
2	170	0·6	...	...	...	...	...	...	...	...	...	...	...	...	230	2·1	310	1·9	300	2·6	270	2·6	270	2·5
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	80	3·0	100	1·6	90	1·6	100	1·9
4	20	2·7	360	4·4	10	2·8	360	3·8	10	0·3	10	1·7	340	1·4	300	2·9	290	4·4	290	5·8	280	6·5	280	7·1
5	210	2·0	...	...	...	...	190	4·9	190	4·9	210	4·7	210	6·3	210	7·2	210	7·4	210	8·8	200	9·2	210	11·0
6	190	6·6	210	8·9	200	6·5	200	3·9	210	2·9	180	3·2	180	4·8	160	4·5	170	5·5	180	7·3	190	8·5	190	7·0
7	350	1·3	10	3·8	10	4·7	10	4·0	10	4·2	30	2·0	50	3·1	60	4·3	70	6·0	70	4·0	70	4·5	140	4·8
8	...	...	...	...	...	...	...	...	...	...	20	2·5	30	4·9	30	5·6	30	7·0	40	(9·3)	50	(8·7)	60	(11·5)
9	340	2·1	20	2·9	...	...	...	...	...	...	...	...	...	...	70	2·8	80	2·1	70	1·5	80	1·7	150	1·5
10	220	1·8	...	...	190	2·3	220	3·5	220	2·3	...	...	...	...	220	8·1	230	10·0	230	10·0	240	10·2	230	10·5
11	220	7·8	230	8·0	210	10·7	210	12·5	220	14·3	220	12·7	220	10·5	220	10·0	240	11·7	250	12·1	240	13·2	250	12·4
12	210	3·5	210	2·2	...	...	200	4·0	220	4·6	220	5·2	250	6·1	240	6·4	240	7·5	240	8·5	230	8·6	230	8·7
13	220	7·6	230	7·5	220	5·9	220	5·3	230	7·4	210	6·5	210	7·5	210	8·5	210	10·7	220	11·1	220	12·5	220	13·3
14	220	12·8	220	13·0	220	12·5	220	12·2	220	12·4	230	11·0	230	11·7	230	12·0	230	12·7	230	12·5	230	12·3	230	13·3
15	230	8·2	240	8·7	240	9·4	240	9·3	230	8·9	240	10·3	240	9·4	240	8·4	230	8·2	240	8·9	230	7·5	230	8·6
16	...	...	...	...	...	...	240	1·6	...	...	...	...	...	...	170	2·3	200	4·8	210	4·8	210	5·0	230	3·8
17	...	...	...	...	...	...	...	...	...	...	80	1·5	40	3·0	40	4·4	30	5·0	40	4·6	50	4·8	50	4·7
18	50	3·9	50	3·4	50	4·2	50	4·2	30	3·7	40	4·4	50	4·9	50	5·2	40	4·8	80	4·9	60	3·4	90	2·8
19	50	4·0	30	2·6	30	3·0	30	3·3	40	4·3	30	3·0	50	4·8	60	5·3	70	5·2	90	5·5	80	6·4	80	5·8
20	20	2·4	20	1·3	...	...	...	...	...	...	...	...	40	4·5	60	5·2	60	5·0	80	4·0	80	3·3	90	3·0
21	350	1·0	10	1·2	360	1·3	360	1·7	10	1·6	20	1·4	60	1·9	100	2·3	100	3·7	120	5·1	130	5·7	130	5·4
22	40	5·0	40	5·0	30	4·1	50	5·7	50	5·3	70	7·6	80	8·2	70	6·5	70	5·5	50	5·1	70	5·4	50	4·8
23	80	4·9	80	4·0	50	3·0	30	2·0	40	2·4	50	2·8	60	3·8	70	3·6	70	2·5	130	1·9	150	2·9	140	4·3
24	70	0·7	...	...	20	0·9	70	1·3	...	...	...	...	150	2·0	160	2·9	170	2·4	170	4·0	190	4·0	230	5·0
25	220	13·4	220	13·0	220	12·4	210	11·5	220	14·5	220	13·7	220	13·9	220	15·0	220	15·7	220	14·8	220	14·5	220	12·5
26	230	10·2	230	9·4	230	8·7	220	6·3	210	6·0	190	3·0	200	5·8	210	6·7	210	6·7	220	10·0	230	11·1	220	11·4
27	...	...	...	...	...	...	...	...	10	1·5	10	3·1	40	2·5	60	4·4	70	5·5	80	3·0	130	5·3	120	5·1
28	50	2·3	40	2·7	50	6·7	50	5·6	40	3·7	40	5·8	40	5·7	40	5·0	40	3·7	60	8·5	60	10·6	60	10·0
29	230	5·3	230	2·7	...	...	...	...	...	...	...	...	350	4·8	260	4·9	250	4·5	260	2·2	250	2·0	220	1·9
30	...	...	20	(1·4)	...	...	...	...	160	(2·7)	160	(2·8)	170	4·9	160	5·0	160	5·7	170	6·3	170	5·4	170	5·0
31	40	(1·6)	50	(2·5)	40	(3·0)	70	4·7	70	4·2	70	4·0	80	4·6	80	4·6	80	5·4	70	6·9	70	8·1	80	7·8
Mean...	—	3·8	—	3·8	—	**3·6**	—	3·9	—	4·0	—	3·9	—	4·9	—	5·6	—	6·2	—	6·6	—	6·9	—	7·0

242. Eskdalemuir : H_a = 235 metres + 15 metres.

	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	70	(1·5)	...	...	...	...	...	...	30	(2·0)	40	(2·5)	40	2·5	40	3·9	40	4·3	50	5·2	50	5·5	50	5·2
2	30	4·8	30	3·5	30	3·6	40	3·7	40	3·3	40	3·9	40	3·6	70	5·0	80	4·8	100	3·9	80	4·0	80	4·6
3	60	7·1	60	7·3	60	7·0	60	7·0	60	7·0	60	7·5	70	6·9	70	7·4	80	6·5	90	7·6	90	5·8	100	5·9
4	20	(2·0)	10	(2·0)	10	(2·0)	...	...	...	...	...	...	...	...	...	...	...	...	170	1·5	160	1·8	140	2·5
5	70	5·8	60	6·3	60	6·0	60	4·5	90	5·0	100	5·5	100	6·5	100	6·9	100	7·4	100	7·4	100	7·1	110	6·9
6	90	5·6	90	5·4	90	5·1	70	5·4	70	4·9	80	5·0	100	6·7	100	6·8	110	5·1	110	5·0	110	5·4	110	5·5
7	60	5·0	60	4·6	50	4·7	50	4·9	50	5·0	50	4·7	60	5·0	60	5·0	60	4·6	70	4·8	70	4·6	70	4·8
8	70	3·6	70	4·0	70	3·6	70	5·0	60	5·1	80	4·4	90	4·2	100	3·7	110	3·0	160	3·8	210	3·9	220	5·3
9	210	3·7	210	4·1	210	3·8	200	2·7	210	3·2	200	3·5	200	3·7	220	4·7	230	4·8	220	4·0	180	3·0	180	4·7
10	220	1·8	240	1·4	230	(1·4)	230	(1·8)	210	2·9	220	3·1	220	3·0	220	3·3	220	4·1	210	5·5	210	5·4	210	4·6
11	230	7·0	220	5·9	240	7·1	230	6·3	250	6·4	300	6·0	290	5·8	280	6·1	290	5·4	290	5·8	280	5·0	270	7·7
12	350	0·8	360	0·8	10	1·6	10	2·2	...	...	60	1·6	60	2·4	70	2·4	60	2·0	70	1·6	90	1·9	100	1·6
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	170	2·0	200	2·3	190	2·7	210	2·7
14	160	3·5	160	2·3	170	2·5	170	1·6	...	...	...	...	140	4·5	150	5·3	150	4·9	170	3·7	170	1·4	...	...
15	280	9·1	280	9·8	280	10·6	290	10·6	290	11·5	280	10·7	280	9·1	270	12·2	270	11·4	260	10·7	260	10·6	250	11·4
16	210	14·6	210	13·5	200	14·0	200	13·6	200	13·4	210	14·2	210	15·1	210	14·1	210	13·9	230	11·0	240	8·1	240	9·0
17	210	2·6	190	3·5	190	2·5	...	...	220	1·6	...	...	180	1·7	230	2·5	260	3·2	240	4·5	260	2·9	230	2·9
18	250	7·5	250	6·0	240	6·4	240	5·6	250	6·5	240	6·5	250	7·9	240	7·5	240	8·3	260	8·2	260	7·5	270	6·6
19	...	...	350	2·8	10	1·4	10	2·0	...	...	30	5·5	40	7·4	40	8·5	40	8·8	40	8·2	40	8·8	40	9·5
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	230	3·0	220	2·9	250	4·5	250	4·4	260	5·0
21	240	*	240	*	240	*	240	*	250	*	260	9·5	260	9·6	260	9·9	260	10·6	260	9·9	270	11·3	280	10·1
22	250	10·3	250	11·6	260	12·5	270	11·1	290	11·6	290	8·5	290	6·7	300	9·6	300	4·5	270	4·5	290	6·3	290	6·0
23	290	3·2	290	2·8	250	1·1	...	...	...	...	100	1·0	...	...	...	...	...	...	...	...	...	...	...	...
24	50	3·8	50	3·8	40	4·1	40	3·5	50	3·7	60	4·2	70	5·3	70	(6·0)	70	5·5	70	5·4	80	5·3	80	5·0
25	360	1·5	...	...	...	...	...	...	...	...	...	...	140	1·6	220	3·7	220	3·3	210	3·5	230	3·2	210	3·8
26	...	...	...	...	...	...	...	...	...	...	230	3·8	220	5·5	220	7·2	220	6·6	220	7·1	220	7·7	230	7·8
27	190	3·1	200	3·9	230	5·0	250	10·1	250	11·4	260	11·2	250	9·1	240	7·0	230	6·5	240	8·8	250	9·6	240	8·8
28	210	2·2	...	...	...	...	210	2·6	210	2·5	250	4·2	260	4·5	260	5·5	290	5·3	300	5·5	300	5·2	310	5·5
29	270	(6·2)	270	(4·6)	280	(3·3)	280	(3·1)	270	(4·2)	280	(4·4)	290	(4·5)	310	7·3	310	6·5	310	7·2	300	5·7	290	5·1
30	...	...	190	1·0	...	...	...	...	...	...	...	...	...	...	230	1·5	260	3·7	260	3·0	270	3·8	260	2·1
†Mean...	—	4·1	—	3·9	—	3·9	—	**3·9**	—	4·0	—	4·3	—	4·7	—	5·4	—	5·2	—	5·3	—	5·1	—	5·2
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

* Velocity record defective. † Mean for 29 days only; 21st omitted.

Averages for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground = 235 metres + 15 metres.

May, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
280	10·0	270	10·0	270	7·8	260	10·0	270	8·2	250	2·6	270	7·0	280	5·6	270	5·3	280	2·9	290	2·1	230	1·4	6·5	1
360	2·6	120	4·1	170	4·0	190	4·0	220	4·2	250	2·5	260	3·2	...	...	10	0·6	...	...	...	...	...	...	**1·8**	2
80	1·5	80	1·5	90	2·1	90	4·7	80	5·0	70	6·6	60	4·6	20	2·8	360	3·0	350	1·1	20	2·1	10	4·5	2·1	3
280	6·9	280	6·4	290	6·7	290	6·5	280	6·0	270	6·5	250	6·6	230	5·6	240	5·2	240	3·8	190	2·2	180	1·5	4·5	4
220	11·3	220	10·5	220	11·5	220	10·7	220	9·2	220	7·5	210	4·4	190	2·4	210	4·4	170	4·0	170	3·2	180	5·8	6·3	5
210	5·5	250	5·6	...	...	...	...	...	...	80	1·1	130	2·6	140	3·6	140	2·2	250	0·5	50	0·6	20	1·3	4·0	6
200	3·1	250	5·7	...	...	...	...	280	1·5	280	3·0	270	3·4	230	1·9	...	...	...	...	...	...	...	...	2·9	7
70	9·5	70	8·8	60	7·2	50	6·7	50	5·7	70	5·5	60	4·1	20	2·5	360	2·9	10	2·4	10	4·0	20	3·5	4·7	8
220	4·5	220	4·5	240	5·3	260	5·5	260	5·1	230	2·8	220	2·6	210	2·4	220	2·4	210	1·9	200	2·0	210	1·6	2·5	9
230	9·7	230	10·0	230	9·4	230	9·0	230	9·3	230	8·5	220	9·7	220	10·7	220	11·0	230	10·6	220	9·1	220	8·2	7·2	10
230	13·0	230	13·1	230	12·9	260	12·3	260	11·0	250	11·3	260	12·8	230	6·6	220	5·3	250	6·3	230	4·1	220	4·2	10·5	11
230	8·3	230	9·4	220	7·5	230	8·1	230	8·5	220	8·1	220	6·2	220	6·8	210	6·0	210	6·9	230	9·3	230	8·2	6·5	12
230	12·9	220	11·2	220	9·5	220	8·2	210	8·5	220	11·4	220	10·6	230	11·9	230	11·7	230	12·0	220	11·9	220	12·2	9·7	13
230	14·2	230	15·0	230	13·8	240	13·6	230	12·8	240	9·8	240	8·4	240	10·6	240	9·3	240	8·0	230	7·3	230	7·2	11·7	14
220	9·5	230	9·6	230	8·3	230	7·2	220	6·6	230	5·0	240	3·1	230	1·5	210	1·1	...	...	...	...	...	...	6·8	15
270	5·3	220	5·4	290	4·4	320	6·2	340	5·0	350	3·5	310	1·5	340	1·7	...	...	...	...	...	...	...	...	2·5	16
70	5·9	60	6·1	80	6·7	90	6·3	110	4·4	90	3·4	60	3·4	50	2·4	30	3·0	360	1·8	10	1·9	50	3·0	3·2	17
60	3·0	80	3·5	90	4·1	90	4·4	90	4·9	100	4·3	90	2·7	40	1·3	220	1·3	70	3·2	60	2·4	50	4·3	3·7	18
80	6·5	90	6·7	80	6·8	80	6·3	90	6·2	80	5·9	70	6·4	80	4·3	70	2·5	20	1·6	10	1·7	350	1·6	4·6	19
90	3·0	90	3·3	90	3·2	100	3·9	80	4·2	70	5·0	70	4·0	80	2·3	60	2·8	10	1·3	350	1·5	340	1·3	2·8	20
130	6·3	120	5·7	130	5·7	130	6·2	120	6·4	130	6·0	110	6·6	80	4·3	90	2·3	80	2·8	70	4·0	50	5·3	3·8	21
70	5·6	60	5·7	50	5·5	80	5·3	80	5·8	80	5·0	70	5·6	70	5·0	60	4·7	70	4·8	70	4·7	70	4·5	5·5	22
170	5·2	170	4·8	180	4·6	170	4·3	170	4·4	150	4·1	160	1·8	90	0·8	130	2·0	180	2·4	170	1·4	...	...	3·2	23
260	5·7	230	6·6	230	8·3	230	9·7	230	10·6	230	11·2	230	12·7	230	13·4	230	13·0	230	13·0	220	13·6	220	13·8	6·2	24
230	12·0	220	16·4	220	15·3	220	15·4	220	14·6	220	13·3	220	11·4	220	10·6	210	10·0	220	9·9	220	9·0	230	10·3	**13·1**	25
230	10·7	230	11·5	220	11·2	230	10·6	230	8·9	230	5·5	210	4·5	240	2·2	...	...	...	...	350	1·4	350	1·4	7·0	26
130	5·8	140	6·6	140	8·7	130	8·8	110	7·5	120	6·8	90	3·3	90	1·4	360	2·8	220	3·3	50	5·6	60	7·0	4·1	27
60	10·5	60	10·5	50	7·9	60	9·5	70	8·7	80	6·5	70	2·7	40	1·7	210	5·0	230	6·7	220	6·2	220	6·5	6·4	28
190	2·0	190	2·4	190	2·3	180	2·1	100	3·3	140	4·4	160	4·2	190	4·4	180	3·5	...	...	...	...	...	...	2·6	29
190	4·4	200	5·4	190	4·7	210	3·1	...	...	...	...	120	3·8	150	3·8	90	(1·8)	80	1·8	50	1·6	50	(1·9)	3·1	30
90	6·8	80	6·5	70	7·2	50	6·5	60	5·5	50	4·7	40	3·9	40	2·3	50	2·8	40	3·8	40	2·5	50	1·1	4·6	31
—	7·1	—	**7·5**	—	6·9	—	7·0	—	6·5	—	5·9	—	5·4	—	4·4	—	4·2	—	3·9	—	3·8	—	4·0	5·3	

June, 1931.

°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
40	5·5	50	6·0	50	6·5	40	6·6	40	6·3	40	6·7	40	5·6	40	5·0	30	4·6	40	5·3	40	4·8	30	4·5	4·2	1
70	4·4	70	5·2	60	5·4	70	5·6	60	5·4	70	6·5	70	6·6	60	6·7	70	7·0	60	7·6	60	7·5	60	7·4	5·1	2
110	4·2	110	3·6	120	3·5	140	3·0	140	2·4	130	2·6	120	1·6	100	1·9	80	(1·9)	50	(2·0)	20	(2·0)	10	(2·0)	4·9	3
80	6·1	80	7·2	70	8·6	70	8·9	70	9·5	60	9·7	60	9·9	70	9·0	70	7·7	70	7·2	70	7·1	80	5·7	4·6	4
110	6·9	100	7·2	110	7·0	100	8·0	110	7·6	110	7·4	100	8·6	100	8·4	70	4·6	70	5·3	80	6·0	90	5·5	6·6	5
110	5·6	110	4·3	110	4·4	110	4·5	80	5·0	80	5·0	70	5·0	70	5·0	70	4·9	60	3·9	50	4·2	50	4·6	5·1	6
70	3·9	90	4·0	70	4·1	70	4·4	70	5·0	60	5·1	60	4·5	60	4·6	60	4·0	60	4·1	50	3·1	50	3·2	4·5	7
210	5·4	220	5·2	230	6·4	230	7·2	220	7·3	230	6·5	210	3·6	200	2·5	210	2·7	210	1·8	210	4·0	210	4·5	4·4	8
170	3·9	170	3·8	180	4·0	180	3·0	210	7·0	220	6·7	230	6·5	230	5·2	230	4·2	230	3·6	230	1·6	220	1·5	4·1	9
180	3·5	190	4·5	220	7·5	220	7·7	220	9·5	220	8·5	230	8·4	220	9·5	220	9·8	230	8·8	230	8·8	230	7·8	5·4	10
280	6·4	290	5·4	290	5·5	280	5·5	260	5·6	240	4·8	260	2·6	260	3·0	...	...	...	...	340	1·0	10	1·0	5·0	11
...	...	...	...	260	1·9	260	2·1	300	2·9	10	2·5	330	1·0	10	(1·7)	320	(1·1)	...	...	...	...	...	...	**1·5**	12
170	2·2	160	1·2	190	1·8	180	2·6	140	6·2	120	5·3	120	5·6	130	5·5	140	2·6	140	3·8	150	2·5	160	3·8	2·3	13
...	...	...	...	...	...	...	...	50	1·9	230	2·2	280	3·8	...	...	...	...	260	4·5	270	4·6	250	5·5	2·3	14
240	11·6	230	11·8	220	11·8	220	12·6	220	13·0	230	13·9	230	13·0	220	14·8	220	14·0	220	13·5	210	14·3	210	13·9	**11·7**	15
240	9·9	230	10·1	220	9·4	210	9·3	220	9·3	220	8·9	210	6·6	210	5·5	220	5·0	220	5·5	230	5·3	220	3·9	10·3	16
200	4·7	270	5·7	270	6·7	250	9·1	240	8·0	250	5·4	260	6·6	240	5·6	240	7·1	230	5·6	230	7·2	250	8·0	4·4	17
280	5·8	280	6·2	250	8·3	240	10·1	240	8·3	240	6·4	240	4·9	240	4·1	270	2·9	...	...	...	...	10	1·8	6·1	18
50	9·2	50	8·7	50	8·8	50	8·9	50	7·7	50	7·2	50	5·5	40	5·0	30	4·8	20	2·6	10	1·5	10	1·6	5·6	19
280	4·5	290	5·0	290	5·5	280	5·5	260	5·7	250	7·8	240	8·2	240	6·9	230	7·2	240	(8·2)	240	9·1	240	8·8	4·3	20
280	8·3	280	10·1	270	10·9	260	11·4	260	10·7	270	9·3	250	8·5	250	8·5	250	8·8	250	8·2	250	8·9	250	9·0	...	21
290	6·8	280	6·3	290	7·3	280	5·7	290	6·4	290	5·0	310	4·2	310	4·5	300	2·1	310	3·9	300	4·0	280	3·1	6·9	22
210	2·4	250	3·5	290	3·0	330	3·1	60	4·4	70	4·2	60	5·2	40	4·4	30	4·2	40	4·3	50	4·5	50	4·0	2·5	23
(70)	4·9	70	4·4	70	4·3	70	4·1	100	3·1	80	2·5	100	2·6	70	2·6	360	2·0	10	2·6	10	2·6	360	2·0	3·9	24
240	4·6	240	4·5	230	4·9	230	4·8	230	5·0	250	5·2	250	3·9	260	3·4	260	1·2	...	...	...	...	...	...	2·6	25
240	10·0	230	10·1	220	7·9	210	6·4	210	5·6	220	6·6	220	6·5	210	6·5	210	5·4	210	4·7	220	5·0	210	3·9	5·2	26
230	8·0	220	6·5	240	6·6	250	6·8	270	6·7	300	4·6	310	3·5	290	1·5	280	1·9	270	1·1	...	...	210	2·2	6·1	27
300	5·3	300	5·5	290	6·6	290	6·6	290	7·1	290	5·7	290	5·0	270	5·3	270	5·5	270	(4·8)	270	(6·3)	270	(6·3)	4·7	28
290	5·6	290	5·2	290	5·8	290	6·3	290	5·0	290	4·4	290	3·7	300	5·0	300	3·9	310	3·2	330	1·5	160	1·2	4·8	29
230	2·5	220	4·3	220	4·7	230	4·4	220	3·5	230	3·4	230	3·0	...	...	...	...	...	...	...	...	...	...	1·9	30
—	5·3	—	5·4	—	5·8	—	6·0	—	**6·2**	—	5·9	—	5·4	—	5·0	—	4·3	—	4·2	—	4·2	—	4·1	4·9	
13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day

Direction expressed in degrees from North (E = 90°, S = 180°, W = 270°, N = 360°). Speed in metres per second.

243. Eskdalemuir : H_a (height of anemograph above M.S.L.) = Height of ground above

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	...	...	200	2·0	...	...	...	...	...	...	...	...	230	2·7	230	4·2	230	4·5	220	5·0	220	6·1	220	6·9
2	220	7·3	210	6·0	220	7·1	220	7·8	210	8·4	220	8·6	220	7·5	250	7·2	270	6·4	270	7·4	270	8·3	270	7·6
3	250	5·0	240	4·6	230	3·6	240	5·8	210	3·6	210	5·8	210	6·9	210	7·9	220	8·4	210	9·2	220	10·3	220	10·0
4	210	5·5	200	6·1	200	5·6	210	6·6	230	5·0	230	5·4	230	6·2	230	8·0	230	9·0	220	8·8	220	9·9	220	9·8
5	190	4·2	190	4·4	200	3·7	190	3·8	190	2·7	180	2·5	180	3·5	200	5·1	200	5·0	210	4·7	220	4·2	220	3·6
6	360	0·6	...	...	...	...	20	1·4	...	...	...	...	...	...	40	1·4	50	2·5	50	4·3	40	4·8	50	5·0
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	160	3·0	...	...	240	3·0	230	2·2
8	(310)	(3·2)	*	*	...	...	...	...	...	...	...	...	...	...	350	3·9	320	2·3	280	2·1	310	4·1	310	4·6
9	...	...	...	...	310	3·6	300	4·3	320	4·2	...	...	140	2·0	130	1·6	310	4·8	270	6·7	270	6·2	230	7·6
10	210	3·6	220	3·8	240	3·5	230	3·2	290	3·2	280	3·7	290	2·3	290	2·7	280	1·4	260	3·9	240	4·1	260	4·4
11	...	...	...	...	220	2·8	...	...	210	3·4	200	3·0	220	4·0	220	5·1	220	5·5	220	7·4	220	7·9	230	6·1
12	40	1·4	...	...	...	...	180	5·6	180	4·5	180	3·8	160	4·3	170	7·0	170	7·7	230	8·5	220	7·7	220	7·4
13	240	3·2	...	...	...	...	...	...	...	...	240	3·3	250	4·5	250	4·3	250	4·6	250	5·8	250	6·6	240	7·1
14	200	3·0	...	...	...	...	...	...	...	...	...	...	...	...	160	4·4	160	5·2	150	5·2	160	4·2	110	2·4
15	30	3·8	20	4·5	40	4·2	30	4·9	50	4·1	60	5·0	50	5·5	50	6·0	40	6·0	50	5·9	40	7·0	40	6·6
16	...	...	...	...	...	...	330	(2·9)	330	(3·9)	30	(2·6)	...	...	290	4·4	290	6·0	290	5·8	290	6·4	280	6·0
17	260	3·0	290	3·4	290	6·2	280	5·3	290	5·0	290	6·7	280	6·9	260	7·1	270	5·2	250	5·9	260	5·9	270	6·1
18	10	3·8	20	2·5	...	...	...	...	...	...	360	5·0	350	3·3	330	5·6	310	5·0	320	6·6	320	7·6	310	6·5
19	270	6·6	280	3·7	290	5·5	290	5·0	290	4·5	290	4·2	290	5·3	290	4·5	310	6·6	310	6·8	310	7·1	320	7·0
20	30	3·3	10	3·5	10	3·8	20	2·7	360	3·3	10	4·9	20	4·0	...	...	...	...	...	...	350	5·1	360	5·0
21	330	5·0	330	3·5	...	...	310	7·1	310	5·9	310	6·9	300	5·3	300	6·6	300	5·1	290	6·2	290	6·1	290	5·5
22	230	7·1	240	6·2	240	6·6	250	8·3	250	6·5	250	6·4	260	9·2	250	9·2	230	10·0	230	9·8	230	10·1	220	11·0
23	230	10·5	230	11·3	230	11·7	230	9·3	230	9·0	240	7·5	230	8·2	220	8·5	220	9·5	220	10·0	220	10·8	230	11·1
24	200	(4·7)	190	3·9	200	2·9	...	...	...	...	...	...	...	...	190	4·0	200	4·9	220	4·5	220	5·6	220	6·4
25	20	2·2	30	2·1	40	2·0	40	1·9	20	2·2	50	1·9	70	4·0	70	4·4	170	4·2	190	4·9	180	3·9	180	2·5
26	...	...	320	3·7	350	2·7	320	2·4	...	...	280	1·5	...	...	320	4·4	320	5·0	300	4·7	310	6·6	290	4·6
27	260	4·5	240	4·0	260	3·8	290	4·1	300	4·9	290	3·2	300	6·6	290	3·0	280	5·1	290	6·2	280	6·5	280	7·1
28	290	8·0	300	11·9	300	11·8	290	9·3	280	8·2	280	8·1	300	8·8	300	9·8	290	9·5	300	10·5	310	12·3	310	12·4
29	290	7·6	280	5·5	250	5·5	230	5·5	220	5·0	240	7·0	240	6·9	240	6·8	230	9·6	230	8·7	220	9·2	220	10·2
30	...	...	...	...	...	...	...	...	...	...	...		270	3·0	280	3·4	290	4·9	300	5·4	310	5·2	290	5·0
31	...	...	...	...	...	...	...	...	...	...	220	5·0	240	5·2	230	5·5	230	5·8	230	5·6	240	6·0	240	7·2
†Mean...	—	3·6	—	**3·4**	—	3·4	—	3·7	—	3·4	—	3·9	—	4·3	—	5·1	—	5·7	—	6·2	—	6·8	—	6·7

244. Eskdalemuir : H_a = 235 metres + 15 metres.

Day	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	...	...	...	...	...	...	...	...	...	...	10	3·0	...	...	40	2·4	70	4·9	80	4·5	80	3·8	80	3·0
2	30	(2·2)	...	...	...	...	...	...	20	(3·7)	40	4·5	30	4·5	50	5·2	60	6·8	60	5·6	60	5·5	80	5·5
3	40	5·5	40	5·8	40	7·1	50	6·2	40	6·0	40	6·3	50	6·8	50	6·0	50	6·2	50	7·3	50	6·5	50	5·1
4	50	7·0	40	6·4	20	5·5	30	5·8	30	6·1	30	6·8	40	5·8	40	7·0	50	7·5	50	7·2	40	5·5	60	6·6
5	30	5·6	30	5·5	40	6·3	70	3·5	30	5·1	20	6·0	30	4·9	20	5·1	30	6·0	40	5·5	70	9·6	80	9·5
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*	*	*	*	*	*	*	*
7	360	0·6	...	...	...	...	...	...	340	3·7	40	5·6	40	5·4	50	5·0	30	4·0	10	4·7	360	4·1	310	3·5
8	...	...	...	...	30	4·5	40	7·5	40	7·6	20	6·0	20	4·2	20	6·0	20	6·7	20	8·5	10	7·9	20	11·2
9	350	8·5	350	7·4	350	5·5	350	8·1	350	8·7	350	8·8	350	9·6	350	9·9	350	8·7	10	7·4	10	7·1	360	6·3
10	250	2·5	210	4·1	...	...	...	...	...	...	...	...	240	3·5	...	...	20	5·4	20	(5·8)	30	6·6	20	6·5
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	290	4·6	280	4·5	280	5·0	260	4·6
12	310	3·0	300	3·3	...	...	...	...	...	...	...	...	120	0·7	160	2·1	240	4·5	280	3·8	260	2·8	240	4·3
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	50	2·8	40	2·0	70	3·9
14	70	3·8	70	4·3	70	4·7	70	6·3	80	5·0	80	5·3	80	5·5	90	6·6	90	7·8	90	9·5	100	9·3	80	9·3
15	40	4·9	30	3·3	30	2·9	40	2·2	60	3·7	40	2·8	40	2·5	50	3·8	60	3·8	50	4·6	40	4·0	50	5·8
16	20	3·5	10	1·9	20	2·6	40	3·1	50	5·6	50	5·0	70	5·0	80	4·1	100	4·9	140	4·0	140	4·6	150	4·0
17	40	5·6	20	4·5	10	4·7	10	5·0	360	3·5	360	3·7	360	4·3	350	5·2	340	5·5	320	4·1	320	4·7	300	5·7
18	270	5·2	270	4·9	270	4·6	270	5·1	270	4·5	260	3·4	230	2·5	260	3·0	260	5·2	250	5·2	270	5·2	260	6·4
19	...	...	...	...	360	2·2	360	2·4	20	2·4	40	2·4	360	2·1	30	3·2	50	7·2	70	7·0	60	7·8	80	8·3
20	10	2·5	10	2·6	50	3·1	...	...	110	3·5	180	6·2	200	6·3	200	6·0	190	5·0	180	4·1	180	2·4	210	2·5
21	350	9·0	350	9·6	350	9·6	350	9·2	350	9·8	350	8·6	350	9·2	350	8·5	350	8·4	360	7·5	360	6·6	360	7·0
22	360	2·3	30	2·0	10	2·2	...	...	...	...	10	2·0	20	3·3	20	3·6	30	3·0	30	2·2	350	2·6	340	3·8
23	360	0·9	350	2·8	360	4·0	360	3·8	360	3·8	10	4·0	10	4·2	10	4·6	20	4·5	20	4·4	10	3·4	20	3·7
24	360	2·8	360	1·0	350	2·5	350	3·0	350	4·0	10	2·4	120	1·5	30	3·6	30	5·7	30	6·1	30	6·1	30	6·5
25	...	...	...	...	...	...	...	...	...	...	...	...	20	1·7	10	2·9	10	3·0	360	2·8	360	2·5	330	3·1
26	200	1·5	290	2·2	270	1·5	360	3·0	...	...	...	...	140	1·4	140	1·6	90	1·2	110	1·5	290	1·7	230	3·5
27	...	...	...	...	350	1·4	360	1·5	...	...	...	...	...	...	...	...	150	1·6	140	2·5	150	3·5	140	3·8
28	...	...	360	1·5	...	...	(350)	1·5	...	...	...	...	...	...	...	...	...	...	80	1·1	130	3·3	130	4·9
29	30	3·5	20	3·0	20	3·2	10	3·6	20	3·6	10	3·7	30	4·1	40	4·3	70	4·8	80	5·6	60	6·5	50	7·0
30	10	4·6	10	5·9	20	4·9	10	4·4	10	4·0	10	4·2	20	5·8	20	5·4	40	7·5	40	7·2	40	6·2	40	5·3
31	20	4·2	20	4·0	10	3·5	20	2·8	10	3·6	20	4·0	20	3·7	40	3·9	60	3·5	60	2·8	80	3·0	80	2·8
‡Mean...	—	3·1	—	3·0	—	3·0	—	3·1	—	3·4	—	3·6	—	3·7	—	4·1	—	5·0	—	5·0	—	5·0	—	5·4
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

* Defective record. † Mean for 30 days only; 8th omitted. ‡ Mean for 30 days only; 6th omitted.

Averages for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 235 metres + 15 metres.

July, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day.
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
220	7·1	230	8·7	220	7·6	240	7·4	240	6·5	240	6·8	240	6·8	230	5·7	230	5·2	230	5·6	230	7·2	230	6·6	4·7	1
260	7·9	260	7·7	240	7·0	250	6·9	260	7·1	270	9·0	270	8·2	270	6·5	250	5·6	230	4·5	250	6·1	260	5·8	7·2	2
220	10·6	220	11·1	220	10·1	220	8·4	220	8·0	220	6·7	220	6·5	220	5·5	200	5·0	200	5·4	210	5·5	220	6·1	7·1	3
220	10·2	220	9·3	220	9·8	220	9·8	220	9·0	220	8·3	210	5·6	220	6·5	210	4·2	210	5·2	190	4·3	180	3·7	7·2	4
210	3·0	220	2·8	240	3·4	230	3·1	240	3·0	260	1·2	...	...	...	...	...	...	...	...	360	0·6	...	...	2·9	5
40	5·4	50	6·6	50	5·5	50	4·5	180	4·3	270	3·8	...	...	320	6·3	330	4·4	80	1·6	220	2·6	...	...	2·9	6
...	...	210	2·5	240	3·8	250	4·3	250	6·2	240	5·2	230	4·4	200	2·6	...	...	...	...	...	...	(300)	3·0	1·9	7
310	5·5	300	5·2	310	5·2	310	3·9	320	7·1	...	...	10	2·2	20	1·5	20	1·7	...	...	...	...	280	3·0	—	8
220	7·9	200	7·8	210	8·6	210	7·8	210	7·4	230	7·1	240	6·9	230	5·1	210	3·4	190	3·0	190	2·2	210	4·2	4·7	9
240	4·1	250	4·5	280	3·7	290	2·2	280	2·2	...	...	210	2·6	210	2·1	210	3·0	...	...	...	...	...	...	2·8	10
240	5·6	240	6·0	230	7·0	220	7·1	230	6·1	220	6·9	220	6·1	220	3·6	210	2·4	...	...	360	2·3	30	1·7	4·2	11
240	6·5	230	7·5	230	8·1	230	6·8	230	6·3	240	6·6	250	5·9	220	4·5	...	...	...	...	220	2·7	250	3·7	4·9	12
230	5·2	230	5·4	220	8·8	220	8·1	220	8·1	220	6·6	210	5·2	210	4·4	200	4·6	200	2·6	190	4·0	190	2·6	4·5	13
350	1·8	...	...	...	...	70	3·8	70	5·1	80	6·4	80	4·6	20	2·4	10	3·1	10	2·5	20	2·2	20	3·0	2·6	14
40	6·4	40	6·0	50	6·4	50	5·3	50	4·2	50	3·9	50	2·7	360	2·0	...	...	20	2·5	...	...	...	...	4·4	15
270	5·9	280	6·2	280	6·8	280	7·1	270	6·8	240	6·8	250	5·0	260	4·2	270	4·1	260	4·0	250	4·6	240	3·9	4·3	16
260	6·9	240	6·8	240	8·4	220	8·2	220	7·9	220	6·2	...	...	...	...	...	...	...	...	(40)	3·6	(10)	3·0	5·0	17
310	8·0	290	6·6	300	7·1	310	7·9	300	6·4	300	5·5	300	4·9	290	4·5	300	5·2	280	6·1	280	6·1	270	5·2	5·0	18
330	5·0	320	3·5	330	4·1	310	5·5	330	7·2	...	...	...	...	10	3·0	20	2·2	30	1·5	20	3·2	40	5·8	4·5	19
360	4·9	330	5·8	350	5·5	340	5·5	330	5·3	330	5·1	330	5·2	310	7·9	310	8·3	320	9·1	330	8·6	310	7·6	4·8	20
290	6·2	270	6·5	260	8·0	250	9·0	240	9·2	230	8·4	240	8·1	230	7·0	230	6·9	230	6·1	230	6·5	240	7·1	6·4	21
220	10·4	210	10·8	210	12·3	210	12·5	210	12·6	210	13·8	220	15·2	220	15·0	220	14·0	230	12·2	220	10·5	230	10·3	10·3	22
240	10·8	230	10·5	220	10·2	220	10·2	220	10·0	210	8·5	210	8·0	220	6·9	210	4·9	210	5·0	220	5·0	200	4·5	8·9	23
220	6·8	210	7·5	220	7·0	230	7·0	210	4·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·2	24
180	2·7	220	2·2	...	...	60	2·5	360	2·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·1	25
280	4·7	310	4·5	290	4·2	310	6·5	310	6·4	310	5·4	310	4·5	310	2·7	300	2·9	300	4·7	280	4·5	260	2·6	3·7	26
280	6·9	270	8·0	270	8·7	270	9·2	260	10·1	270	10·2	270	10·5	270	11·4	270	11·0	280	9·1	280	8·3	280	7·8	7·0	27
310	15·1	310	17·7	300	13·0	300	11·2	310	12·1	300	13·2	310	16·0	310	18·7	290	7·6	290	6·6	290	8·5	290	7·1	11·2	28
220	10·4	220	10·2	220	9·5	230	8·5	220	7·9	220	7·4	230	6·4	230	6·0	250	5·2	250	6·1	270	3·8	...	...	7·2	29
300	6·5	290	5·6	290	6·0	300	6·0	290	5·1	290	4·2	280	2·5	280	3·6	290	2·9	50	1·5	170	1·9	...	...	3·2	30
240	6·2	230	5·7	230	5·0	250	4·0	250	4·0	250	3·0	...	...	...	...	...	...	...	...	...	...	...	...	3·1	31
—	6·7	—	6·8	—	6·9	—	6·9	—	6·7	—	5·9	—	5·2	—	5·0	—	4·0	—	3·6	—	3·9	—	3·7	5·1	—

August, 1931.

°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
90	1·9	130	2·0	...	...	...	...	350	1·8	40	2·4	...	...	...	...	...	...	...	...	...	...	...	...	1·5	1
80	6·3	70	5·8	70	6·1	60	5·4	70	5·9	70	6·2	60	6·0	50	5·0	40	5·5	50	6·4	50	7·2	50	5·6	4·7	2
60	7·2	50	7·2	50	7·7	60	8·6	70	8·7	70	7·4	60	6·0	50	5·5	40	4·3	40	7·2	40	5·6	40	7·2	6·5	3
60	6·7	80	6·7	60	7·8	70	7·1	70	7·0	60	7·1	60	7·0	50	6·2	20	3·8	330	2·1	20	4·9	20	5·0	6·2	4
80	8·1	80	6·5	60	5·8	70	5·0	60	5·8	70	4·6	60	4·4	50	4·0	70	3·0	30	2·7	...	...	...	...	5·2	5
330	5·0	310	6·3	310	6·5	310	6·9	(300)	7·2	(300)	5·4	300	5·6	...	...	...	...	20	2·4	350	0·5	340	1·3	...	6
310	3·8	320	5·0	290	5·0	280	3·5	280	4·5	280	4·4	280	4·1	280	4·6	...	...	...	...	...	...	...	...	3·1	7
20	12·8	20	11·3	20	12·1	20	10·5	20	10·4	20	9·4	20	9·6	20	8·3	20	7·3	360	6·6	360	5·8	350	8·3	7·5	8
330	5·9	320	5·5	310	4·2	290	5·0	280	5·0	280	5·3	300	7·0	300	7·4	300	7·2	330	3·5	300	5·1	300	6·9	6·9	9
30	5·4	30	5·8	40	5·1	30	4·6	50	3·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·8	10
250	5·3	240	5·8	240	3·9	270	4·4	270	4·0	270	3·1	280	3·3	290	4·8	280	5·0	300	4·4	...	...	330	2·9	2·9	11
230	5·1	290	3·8	270	4·5	290	5·5	300	7·6	310	5·0	310	8·0	310	7·1	330	5·0	...	...	...	...	...	...	3·4	12
70	2·9	60	3·5	60	5·0	60	3·7	100	4·6	90	4·6	90	5·1	80	4·6	80	3·9	50	3·6	70	2·5	80	4·3	2·5	13
80	9·5	100	9·9	100	8·8	100	8·6	80	8·5	80	8·3	60	6·0	60	5·5	60	5·5	50	5·4	50	5·0	40	5·4	6·8	14
60	6·4	50	6·6	50	6·0	50	5·0	50	4·5	30	4·0	10	2·7	30	2·1	50	5·1	40	5·0	30	3·9	30	4·0	4·2	15
150	4·8	130	4·7	150	4·5	160	4·7	100	4·4	70	5·5	100	3·5	60	4·5	50	5·0	60	5·7	50	5·5	50	5·2	4·4	16
300	6·3	300	5·8	290	5·6	300	5·2	280	6·5	280	5·6	280	5·0	280	5·0	270	4·9	270	4·5	270	5·0	270	4·6	5·0	17
260	6·2	260	6·3	270	5·4	270	4·6	250	4·5	210	6·3	220	3·6	170	1·1	...	...	...	...	...	...	...	...	4·1	18
80	8·9	70	8·8	70	8·3	70	8·0	70	7·7	60	7·2	50	7·2	50	6·7	40	7·6	50	6·3	30	4·4	10	3·2	5·4	19
250	3·0	290	3·0	230	1·7	...	...	10	1·9	10	6·0	10	6·5	10	7·6	360	7·0	360	8·4	360	7·4	350	8·5	4·3	20
360	6·0	360	5·5	10	5·0	30	5·0	40	3·2	20	3·6	360	2·6	360	2·6	20	3·3	10	3·5	360	4·0	360	3·1	6·4	21
340	3·7	340	3·3	340	3·7	360	3·6	360	2·9	360	2·5	360	1·6	320	2·5	320	2·3	...	...	...	...	...	...	2·4	22
30	3·4	40	2·5	30	3·2	40	2·6	60	3·0	40	1·8	40	2·0	40	2·4	360	1·7	360	2·5	350	1·5	10	2·4	3·0	23
30	6·8	20	6·9	30	7·3	20	7·5	30	6·8	30	5·5	20	3·8	10	2·3	...	...	...	...	...	...	...	...	4·0	24
310	2·5	350	2·2	330	3·9	320	4·6	290	4·4	290	4·9	290	5·5	290	5·4	20	2·0	330	3·8	350	1·4	310	2·6	2·5	25
220	5·2	230	4·2	220	5·5	210	5·2	220	4·5	220	2·8	...	...	...	...	...	...	...	...	...	...	...	...	2·1	26
150	3·9	150	4·0	160	3·9	180	3·4	...	...	...	...	...	...	...	...	330	1·8	360	2·2	...	...	...	...	1·6	27
120	5·5	130	5·0	80	5·0	80	4·3	90	5·4	80	5·6	70	5·2	50	4·2	30	3·7	20	3·0	40	3·5	30	3·0	2·8	28
60	7·6	60	7·0	60	7·2	70	6·9	40	5·5	20	5·5	30	7·7	20	5·5	20	5·2	30	4·1	30	3·5	20	3·0	5·1	29
50	7·4	50	7·0	40	6·0	50	7·1	40	8·3	30	6·4	20	4·7	30	5·7	20	5·8	20	6·6	20	6·8	30	4·8	5·9	30
70	2·6	80	2·8	80	2·4	90	2·6	80	2·4	60	1·4	340	2·4	340	1·4	330	1·8	...	...	...	...	...	...	2·7	31
—	5·7	—	5·5	—	5·4	—	5·1	—	5·1	—	4·8	—	4·4	—	4·1	—	3·7	—	3·4	—	3·0	—	3·2	4·2	—
13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day

Direction expressed in degrees from North (E = 90°, S = 180°, W = 270°, N = 360°). Speed in metres per second.

245. Eskdalemuir : H_a (height of anemograph above M.S.L.) = Height of ground above

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	130	1·5	200	2·7	160	2·3	170	2·9
2	30	7·7	40	6·6	30	6·8	40	6·5	30	5·0	10	3·8	360	3·6	360	3·2	10	3·6	20	2·9	30	4·3	30	4·9
3	20	7·2	20	6·5	10	4·0	20	4·2	20	4·5	20	6·5	30	8·1	20	9·0	40	10·0	40	11·0	40	10·0	40	10·0
4	20	9·9	20	10·0	20	10·3	20	10·3	20	10·2	20	11·0	20	11·0	30	12·7	30	13·7	20	14·5	20	13·3	20	12·6
5	10	10·5	10	10·8	10	9·6	10	9·0	10	8·7	10	8·5	10	9·0	10	9·5	10	10·0	360	9·5	360	9·3	10	9·2
6	350	4·9	350	5·2	350	4·7	70	2·2	160	1·5	350	4·8	10	2·4	340	4·7	310	6·0	300	4·7	310	4·3	320	5·1
7	...	...	...	...	90	1·3	...	...	...	...	...	...	...	...	...	...	30	1·0	330	1·7	320	2·1	310	2·2
8	...	...	...	...	...	...	...	...	...	...	...	...	140	1·3	290	3·5	270	4·4	250	4·3	260	4·2	270	5·3
9	280	4·5	310	3·7	300	3·4	290	1·5	...	...	360	1·5	...	...	...	...	30	2·5	30	2·2	30	2·0	20	2·8
10	...	...	350	1·7	360	1·8	...	...	10	2·2	350	2·8	360	1·9	40	1·6	50	3·2	80	3·0	100	3·0	20	2·9
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	80	0·7	190	4·4	230	6·0	220	6·1	210	7·0
12	330	3·0	350	1·6	...	...	...	...	...	...	360	2·6	40	3·8	50	5·5	50	6·3	50	7·8	60	8·2	50	7·1
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	60	1·1	210	3·5	230	4·6	(250)	4·5	(270)	5·5
14	...	...	170	2·2	...	...	...	...	...	...	...	...	...	...	150	2·2	220	4·2	230	5·6	210	4·2	220	3·8
15	230	3·8	...	...	...	...	...	...	...	...	130	1·1	20	1·5	340	2·4	300	5·4	260	2·5	240	5·2	280	5·2
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	130	1·5	190	3·2	200	4·5	200	6·0
17	230	7·0	230	7·2	210	7·5	210	5·5	210	6·0	210	5·5	210	4·5	220	4·8	220	2·3	220	1·5	220	2·9	250	3·2
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	120	1·2	80	1·5	120	3·0	210	3·0
19	...	...	140	2·0	170	2·5	200	2·5	...	...	200	1·4	340	2·6	30	2·8	20	5·2	40	7·5	30	7·0	40	7·4
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	140	0·9	50	2·3	350	4·0
21	360	3·0	350	4·1	350	2·7	10	2·6	350	4·6	360	3·9	10	5·6	10	5·2	20	7·0	20	7·5	20	8·0	10	6·7
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	170	1·3	140	1·0
23	350	2·5	340	3·0	10	1·6	40	1·4	330	1·7	350	2·5	360	1·8	20	1·9	20	3·1	30	3·7	20	3·3	30	3·3
24	10	3·5	20	3·5	10	4·1	30	3·5	20	3·6	10	2·4	20	2·7	30	3·2	20	4·0	20	4·1	30	4·5	30	4·9
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	40	0·8	60	1·7
26	...	...	...	...	...	...	350	2·0	360	3·3	340	2·6	360	3·2	360	1·8	350	2·1	20	1·1	110	1·2	...	...
27	...	...	280	2·1	300	2·0	290	1·8	...	...	...	...	...	...	...	...	170	1·3	260	2·6	270	4·5	280	4·4
28	310	7·8	310	5·8	310	7·0	10	4·5	360	2·6	160	1·6	140	1·2	...	...	...	...	160	1·5	120	1·4	110	1·5
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	190	4·0	210	5·0	200	6·0
30	160	3·0	160	4·0	150	3·1	150	3·9	150	4·4	160	5·4	150	5·5	160	4·6	160	6·0	150	5·4	150	5·0	150	4·9
Mean...	—	2·9	—	2·9	—	2·6	—	2·3	—	2·2	—	2·5	—	2·5	—	2·9	—	3·9	—	4·3	—	4·6	—	4·8

246. Eskdalemuir : H_a = 235 metres + 15 metres.

Day	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	220	8·1	220	7·5	230	6·6	220	5·9	220	6·7	220	6·6	220	7·0	220	7·8	210	7·8	210	10·0	200	10·2	200	12·5
2	220	13·1	230	12·4	220	12·1	210	12·1	210	12·5	210	12·6	230	14·1	280	9·6	270	8·5	260	8·1	240	8·9	250	10·8
3	250	12·5	250	11·2	260	11·5	270	8·2	280	9·0	270	6·5	270	4·6	270	6·9	270	5·5	270	6·4	270	5·6	270	6·2
4	200	8·4	190	5·3	200	8·3	210	7·8	220	10·0	220	9·2	210	7·1	220	7·2	220	9·2	230	7·6	250	8·4	240	10·0
5	200	8·0	200	8·9	200	9·7	220	9·5	220	12·3	210	12·5	220	13·0	220	12·0	220	13·5	230	13·3	230	13·2	230	12·5
6	200	8·1	200	7·3	200	6·8	200	7·9	200	7·1	200	9·0	200	8·6	200	9·1	200	9·7	200	10·1	200	10·9	200	11·7
7	220	3·5	220	3·7	250	3·6	230	3·1	220	4·4	210	4·0	230	4·6	250	6·1	230	7·0	230	7·8	240	8·8	230	9·6
8	240	9·5	240	10·6	230	11·1	240	11·1	230	11·2	230	10·7	230	9·4	230	9·5	240	8·5	220	7·0	220	7·7	220	7·4
9	210	12·1	210	12·9	210	13·2	210	14·2	220	14·6	220	15·2	210	16·0	210	15·9	210	15·8	210	16·4	210	16·3	210	15·7
10	230	3·6	250	1·7	160	1·6	260	2·1	250	2·5	210	3·1	160	1·6	180	3·0	230	4·6	260	5·5	240	6·8	240	8·9
11	230	9·9	210	7·0	220	7·9	210	6·2	230	7·1	220	7·9	220	8·9	220	8·2	220	8·3	210	7·1	210	7·0	210	7·0
12	...	...	...	...	...	...	...	...	...	...	200	7·0	190	7·7	200	8·2	190	8·8	190	8·4	200	1·1	200	11·0
13	270	2·3	310	4·7	330	3·8	340	3·8	330	4·0	340	3·1	270	3·1	120	0·8	100	1·2	320	4·1	300	4·5	300	5·3
14	270	4·1	290	3·5	290	6·0	300	4·5	360	2·9	290	2·6	130	3·1	20	1·6	360	2·0	360	0·9	320	2·4	290	2·8
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	40	0·4	...	...	120	1·5	250	3·8
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	120	1·3	150	2·8
17	...	...	...	...	...	...	360	1·3	360	1·0	360	3·9	360	3·4	360	3·6	360	2·5	10	2·5	60	4·2	60	5·4
18	20	5·2	30	5·3	30	5·2	20	3·5	20	3·2	20	2·3	20	1·5	360	1·9	30	4·1	40	5·2	30	3·5	30	3·5
19	...	...	...	...	...	...	...	...	...	...	...	...	180	1·9	190	3·2	180	3·5	260	3·2	280	4·5	270	4·5
20	270	8·4	280	6·0	290	8·9	310	7·6	360	7·0	10	6·5	10	7·0	360	6·5	360	10·0	340	13·0	350	10·5	350	10·2
21	100	2·1	150	1·7	260	1·2	310	1·4	250	1·5	180	1·7	110	2·0	360	2·5	360	5·0	360	4·0	360	4·5	10	3·9
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	220	5·7	240	6·6	240	6·4
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	160	1·0	210	2·7
24	350	4·5	350	5·0	360	4·3	360	7·0	360	9·3	360	9·5	360	11·0	360	12·1	360	10·1	10	9·4	360	9·0	360	8·0
25	10	(2·4)	60	(2·0)	350	(3·5)	360	(4·6)	10	(2·5)	360	(3·0)	20	(2·5)	90	1·2	70	1·5	10	3·7	10	4·5	360	4·7
26	...	...	...	...	...	...	...	...	...	...	130	1·0	180	3·6	170	3·2	170	3·2	190	4·0	220	5·4	220	6·5
27	210	1·8	230	(5·5)	200	(3·9)	210	(4·4)	230	(8·0)	220	(6·6)	210	(6·5)	210	9·2	220	(8·4)	230	10·7	220	9·3	210	9·1
28	280	0·7	220	3·0	250	6·6	290	4·5	280	2·7	300	8·6	300	7·5	310	7·0	320	6·5	320	8·2	320	7·7	320	7·1
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	190	2·5
30	10	6·4	10	7·6	10	7·8	20	7·6	20	6·0	20	5·0	10	5·0	90	2·2	10	4·8	10	5·5	10	6·9	10	5·6
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180	1·0	...	...	...	...	190	2·2
Mean...	—	4·5	—	4·4	—	4·8	—	4·6	—	4·8	—	5·2	—	5·3	—	5·2	—	5·6	—	6·1	—	6·6	—	7·1
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 235 metres + 15 metres.

September, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day.
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
190	4·5	200	4·2	200	4·2	220	2·2	...	...	...	...	350	2·5	360	3·8	40	6·1	50	7·3	40	6·3	30	6·0	2·4	1
20	4·9	20	6·1	20	8·9	20	8·7	20	7·7	20	7·5	20	7·1	20	7·0	20	6·5	20	7·3	20	5·6	20	6·1	5·9	2
40	9·2	40	8·2	40	8·8	40	9·3	30	8·6	30	8·7	20	9·0	20	9·9	30	10·0	30	9·9	30	10·0	20	10·1	8·4	3
20	13·5	20	13·8	20	13·8	20	14·9	20	13·0	20	11·5	20	11·2	10	10·0	10	9·0	360	9·5	10	10·4	10	10·0	**11·7**	4
360	8·7	350	6·6	360	5·5	350	5·5	10	5·5	360	2·6	360	2·5	10	2·0	360	2·6	360	3·0	350	1·6	350	3·7	6·9	5
300	5·4	310	5·4	300	6·3	300	4·0	330	1·9	360	2·3	330	3·2	...	...	...	...	10	1·6	30	2·9	...	...	3·6	6
300	2·5	290	3·2	280	3·0	300	3·0	310	2·0	250	0·3	...	...	...	...	...	...	...	...	...	...	...	...	1·2	7
270	6·1	300	7·5	290	7·0	280	6·3	290	5·5	290	5·0	280	4·1	290	5·5	280	6·0	280	5·5	300	4·3	310	2·0	3·7	8
20	2·1	20	2·2	50	2·5	80	2·6	60	2·1	50	1·5	...	...	...	...	...	...	340	1·6	350	1·8	350	1·2	1·9	9
80	3·5	100	3·2	200	4·1	30	4·2	20	1·7	...	...	...	...	340	2·1	350	1·5	350	1·5	...	...	...	...	2·1	10
220	6·4	240	6·6	240	7·2	230	5·5	260	4·5	280	4·5	300	3·8	360	1·4	320	1·5	360	1·2	320	1·7	360	1·1	3·0	11
40	8·1	40	8·2	40	8·3	40	7·2	40	6·1	40	4·2	20	1·5	...	...	...	...	...	...	...	...	...	...	3·9	12
(220)	5·6	240	5·7	260	4·7	270	3·6	270	3·0	230	2·2	...	...	...	...	160	1·0	190	2·1	160	1·5	...	...	2·2	13
230	4·7	210	5·4	200	5·0	220	5·2	210	5·2	200	4·6	210	4·9	200	3·1	200	3·9	200	4·5	210	4·7	210	4·6	3·3	14
280	3·5	280	2·9	290	4·1	300	5·5	300	5·2	300	5·0	290	3·4	300	2·6	...	...	...	...	...	...	...	...	2·7	15
210	6·4	220	6·1	210	5·6	210	4·4	200	3·0	190	3·1	200	5·1	200	6·4	200	6·1	230	5·8	230	6·1	220	7·7	3·4	16
230	3·0	290	5·0	290	4·2	290	4·1	290	4·5	280	3·8	300	1·8	10	1·7	290	4·1	320	3·5	320	3·6	30	1·9	4·3	17
210	4·9	290	5·6	290	4·6	300	2·0	300	2·2	340	2·1	50	2·2	...	...	...	...	310	3·6	330	2·8	350	2·3	1·9	18
50	6·4	60	5·2	60	5·0	60	4·5	70	3·4	40	3·1	330	2·6	...	...	...	...	...	...	...	...	...	...	3·1	19
350	5·0	330	5·9	330	5·6	320	4·0	290	2·5	290	4·6	300	5·8	300	5·3	310	6·0	350	2·5	10	4·1	360	3·5	2·7	20
20	6·5	20	6·0	20	5·6	10	5·5	10	4·0	350	2·6	360	4·1	360	4·1	360	4·1	...	...	...	...	...	...	4·4	21
20	3·0	20	4·0	10	5·0	360	4·4	350	3·6	340	2·0	360	1·1	...	...	10	2·2	360	4·0	30	1·4	10	3·5	1·7	22
50	4·6	60	4·2	40	3·5	20	3·9	40	3·3	30	2·8	350	2·8	10	3·7	10	3·1	360	3·4	20	3·0	20	4·2	3·0	23
40	4·9	30	4·7	30	5·0	40	5·6	40	4·4	30	4·0	30	4·2	20	3·6	20	3·0	10	2·1	10	1·4	...	...	3·7	24
60	1·5	100	1·5	140	1·3	210	2·1	260	3·2	290	1·6	320	1·4	...	...	...	...	...	...	...	...	...	...	**0·9**	25
130	1·2	170	2·0	210	3·5	230	3·7	240	3·2	260	2·0	260	1·9	270	2·0	290	2·0	280	1·9	280	1·5	330	0·8	1·9	26
290	5·0	300	6·9	290	5·8	300	5·0	300	6·6	300	7·0	300	5·0	280	1·5	160	1·4	300	5·0	310	6·9	310	6·6	3·4	27
...	...	230	1·7	290	2·9	280	2·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·1	28
190	5·6	210	7·8	200	5·9	190	4·6	180	4·6	180	3·0	200	3·4	190	3·6	210	2·6	180	4·5	170	2·5	170	2·5	2·9	29
150	3·6	170	5·4	160	5·0	160	4·8	170	5·4	180	5·9	190	5·4	200	5·2	190	6·6	200	8·0	210	7·7	210	7·5	5·2	30
—	5·0	—	5·4	—	**5·4**	—	5·0	—	4·2	—	3·6	—	3·4	—	3·0	—	3·1	—	3·4	—	3·2	—	3·0	3·6	—

October, 1931.

°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
210	12·4	200	13·2	200	10·4	200	9·6	200	8·9	200	7·7	190	6·8	190	7·5	200	8·0	200	7·1	210	9·0	210	11·9	8·6	1
250	11·6	260	11·3	270	10·6	270	9·0	260	10·6	240	10·5	250	12·5	250	12·0	240	10·5	250	12·5	240	11·0	240	11·1	11·2	2
270	4·9	270	6·4	260	6·3	250	6·3	240	3·3	220	3·0	200	3·5	200	3·3	210	6·6	210	8·3	200	8·7	210	10·3	6·9	3
240	10·1	230	9·6	230	8·2	220	7·0	210	5·9	190	5·6	210	8·5	200	7·1	190	5·6	200	8·0	200	7·7	210	7·0	7·9	4
230	10·7	220	9·6	230	9·5	220	8·0	220	6·0	210	6·1	200	4·4	190	5·5	200	7·8	200	8·2	200	9·0	200	8·0	9·6	5
200	11·4	200	11·1	200	11·6	210	11·0	210	11·0	210	10·5	210	9·5	220	8·1	220	6·2	280	3·8	280	5·8	290	2·5	8·8	6
230	9·4	240	9·6	250	10·5	260	9·5	260	9·8	250	10·2	240	8·3	240	9·4	240	10·4	230	10·0	240	9·9	260	7·4	7·4	7
230	8·5	230	8·0	220	7·8	220	9·1	210	9·0	210	8·0	220	9·2	210	8·1	230	10·0	230	10·5	220	9·6	200	8·5	9·1	8
210	14·5	220	13·0	220	12·1	220	9·1	220	10·1	240	10·0	240	9·2	240	7·0	260	4·0	260	3·9	270	3·0	260	4·3	**11·7**	9
240	7·9	230	9·4	250	8·0	220	6·3	220	5·3	220	5·8	220	7·3	230	7·2	220	8·8	220	8·8	220	9·5	230	10·4	5·7	10
230	7·4	280	4·0	280	4·1	260	2·5	200	2·6	240	3·0	240	3·9	240	3·3	...	...	...	...	...	...	...	...	5·4	11
200	9·5	190	9·1	200	9·5	200	10·0	210	9·3	210	8·0	240	6·7	280	3·6	300	2·1	280	1·8	250	1·3	270	3·0	5·7	12
300	5·0	290	5·3	290	6·3	300	8·3	300	7·2	290	6·4	280	5·4	280	3·9	250	2·1	270	3·5	260	3·7	230	4·9	4·2	13
310	4·0	310	3·6	300	3·0	300	3·5	290	1·5	280	1·9	200	1·9	90	0·6	...	...	...	...	...	...	...	...	2·5	14
250	4·5	220	5·2	220	3·9	210	3·8	250	1·5	350	1·3	...	...	...	...	...	...	...	...	...	...	...	...	1·4	15
180	2·4	210	3·1	210	2·7	240	2·4	280	1·5	340	1·4	...	...	...	...	...	...	...	...	...	...	...	...	**1·1**	16
60	6·0	50	6·2	30	5·2	20	4·1	20	2·6	20	4·7	30	5·0	30	5·0	30	4·9	20	3·6	30	3·6	20	3·6	3·4	17
20	3·0	20	2·3	30	1·9	20	1·6	10	2·0	30	1·0	...	...	...	...	...	...	...	...	...	...	...	...	2·5	18
250	5·3	250	6·9	250	7·0	240	7·3	240	6·4	230	6·5	240	6·9	240	6·3	270	4·5	240	4·9	230	5·5	270	8·5	4·0	19
360	9·0	350	10·0	350	7·4	360	6·1	350	8·5	360	4·5	360	4·3	350	6·5	350	7·5	360	5·4	360	5·8	310	1·7	7·6	20
10	3·7	20	3·2	360	2·9	360	2·5	360	2·9	350	1·8	...	...	...	...	...	...	...	...	...	...	...	...	2·2	21
250	6·4	250	6·0	250	4·9	260	3·5	240	2·5	250	2·7	100	1·5	360	1·5	130	2·5	140	2·0	140	2·1	150	1·5	2·5	22
250	3·5	230	4·0	220	4·5	230	2·0	250	2·0	260	2·8	310	3·0	330	2·5	320	1·7	360	4·5	350	4·7	360	5·3	2·0	23
360	7·0	360	6·4	360	6·5	360	6·9	350	7·7	350	6·5	350	6·1	360	6·0	350	7·4	360	4·0	10	2·6	360	2·2	7·1	24
360	5·0	10	3·9	350	3·6	340	2·8	360	1·6	350	3·5	340	1·8	...	...	...	...	...	...	...	...	...	...	2·6	25
230	7·1	230	6·9	230	7·9	220	5·9	220	3·5	230	4·9	230	3·8	220	4·6	220	4·0	200	4·7	210	3·5	230	2·1	3·6	26
220	10·0	220	8·3	220	8·8	230	9·8	220	9·6	220	9·9	230	10·0	220	10·1	220	10·2	240	11·5	260	8·6	300	3·6	8·0	27
320	5·7	320	4·6	310	7·5	320	5·5	330	2·0	180	1·0	280	1·4	230	1·0	340	1·6	360	3·4	340	2·4	350	1·5	4·5	28
220	4·0	200	3·5	190	4·6	210	5·5	180	4·2	...	...	20	2·4	20	4·5	10	4·0	10	4·0	10	3·6	30	3·0	2·1	29
10	5·5	20	3·9	360	2·1	340	2·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·7	30
220	2·6	...	...	...	...	160	0·9	200	1·2	190	1·5	...	...	130	1·6	150	2·5	160	4·0	170	3·7	200	4·6	1·3	31
—	7·0	—	6·7	—	6·4	—	5·9	—	5·2	—	4·9	—	4·7	—	4·5	—	4·4	—	4·6	—	4·5	—	**4·2**	5·3	—
13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day.

Direction expressed in degrees from North ($E = 90°$, $S = 180°$, $W = 270°$, $N = 360°$). *Speed in metres per second.*

247. Eskdalemuir : H_a (height of anemograph above M.S.L.) = Height of ground above

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	210	5·5	230	7·1	230	10·2	230	9·2	220	7·8	220	7·6	210	6·6	200	6·6	210	9·7	210	11·0	210	9·8	210	11·1
2	210	8·6	200	7·0	200	8·5	210	10·0	210	10·9	210	10·0	200	8·3	200	6·0	210	9·3	200	8·3	190	8·3	190	6·5
3	200	16·8	190	16·4	190	17·2	200	17·7	200	18·4	200	16·2	200	17·5	200	17·0	200	17·2	210	19·2	210	17·6	210	15·7
4	220	10·5	200	5·5	190	2·0	190	10·9	200	15·4	260	10·8	220	10·9	220	11·5	220	11·0	230	11·2	220	13·4	230	15·6
5	240	3·5	190	1·1	...	...	...	...	...	...	...	...	...	...	...	...	170	3·1	180	4·1	190	4·5	230	6·9
6	170	4·2	170	5·2	170	5·0	180	5·0	170	5·0	180	5·0	180	5·9	170	6·8	170	8·3	160	9·0	170	9·6	170	10·0
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	40	1·5	50	3·0	70	3·8	70	2·0
8	...	...	10	2·2	10	1·8	40	1·6	60	3·5	60	3·7	120	4·4	120	2·8	130	1·5	...	...	...	...	...	...
9	140	1·7	140	3·0	150	1·7	140	2·0	150	3·0	150	4·5	160	4·8	150	6·2	150	6·2	140	7·1	150	7·5	150	5·4
10	...	...	...	...	190	1·0	170	2·1	170	3·5	160	5·0	160	4·0	160	3·7	160	5·4	160	6·7	160	6·8	160	6·5
11	170	3·6	170	3·0	170	1·6	170	1·6	...	...	...	...	...	...	...	...	...	...	...	...	200	2·6	240	4·9
12	190	1·5	200	3·0	250	4·9	240	3·9	240	3·4	240	4·2	250	3·9	250	3·4	...	...	270	2·9	260	3·4	240	4·6
13	290	5·1	290	3·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	170	2·2	200	4·6	210	5·8
14	180	6·8	170	5·5	180	5·9	180	5·4	190	4·9	180	4·7	170	4·0	160	4·8	170	5·0	170	5·2	170	5·4	170	4·5
15	360	2·8	10	2·0	20	1·7	20	2·0	360	2·0	10	2·1	20	1·9	10	2·0	10	1·7	20	2·7	20	3·5	20	3·5
16	20	1·1	20	0·7	360	1·7	360	1·8	10	1·2	360	2·5	360	2·1	360	2·4	330	2·1	360	2·2	360	3·5	360	2·8
17	330	1·0	350	1·1	350	1·2	...	...	...	...	170	2·8	180	3·3	160	4·5	160	4·2	160	6·0	160	5·6	170	6·7
18	170	5·5	160	5·6	160	6·4	160	8·5	170	8·8	160	8·8	160	9·9	170	10·1	170	10·3	170	7·5	170	6·5	170	6·0
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	170	3·2	170	3·8
20	170	3·2	170	3·2	180	1·0	170	2·4	170	2·8	160	2·1	...	...	150	2·4	160	2·8	160	5·2	170	6·6	170	7·5
21	240	4·2	200	3·4	240	5·3	240	6·1	230	5·1	210	4·4	230	5·6	230	8·0	240	7·6	240	5·6	240	6·3	230	8·4
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	150	7·7	160	7·5	160	7·9	170	8·9	160	8·6	160	8·0	160	8·1	160	8·0	170	9·0	170	8·4	170	7·9	170	7·0
24	180	5·0	210	7·0	300	6·5	300	4·5	290	6·5	300	4·8	290	5·0	290	2·9	280	4·3	240	4·0	220	5·0	220	5·1
25	220	9·1	220	8·9	220	9·4	230	10·4	230	10·6	230	9·1	230	9·5	220	8·8	220	9·0	220	9·2	220	8·6	220	8·3
26	170	7·0	170	6·9	170	6·5	160	6·1	160	6·5	160	6·9	150	7·5	150	7·5	160	7·1	160	7·8	160	8·8	160	10·5
27	...	...	230	3·9	260	5·3	240	5·1	210	4·9	200	3·8	180	2·8	180	3·9	170	6·8	160	6·5	160	8·7	160	7·9
28	20	3·8	20	4·4	20	4·9	10	3·7	20	3·6	30	3·7	40	4·0	60	3·6	60	3·8	50	6·5	60	5·5	90	4·4
29	160	4·2	160	5·2	170	6·3	170	4·5	170	4·3	160	4·0	170	3·0	170	2·5	170	3·4	170	3·0	170	3·9	170	4·0
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	170	0·8
Mean...	—	4·2	—	**4·2**	—	4·2	—	4·6	—	4·8	—	4·6	—	4·6	—	4·6	—	5·1	—	5·6	—	6·1	—	6·2

248. Eskdalemuir : H_a = 235 metres + 15 metres.

	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	...	...	20	1·1	...	...	...	...	...	...	...	...	...	...	190	2·8	200	5·6	200	5·2	180	4·8	170	2·9
2	200	7·5	200	8·2	190	9·1	200	9·3	200	9·3	200	8·5	190	7·9	190	8·0	190	8·0	180	8·3	180	6·5	190	8·0
3	190	16·1	190	16·1	180	16·1	180	14·5	190	15·0	170	13·0	170	11·7	190	17·3	240	11·7	210	10·9	220	12·0	220	15·0
4	230	11·1	240	11·1	240	10·2	240	8·2	250	6·0	230	4·5	220	6·5	240	6·6	250	9·4	250	11·4	250	8·7	230	7·2
5	280	9·2	270	8·0	270	9·6	260	9·2	250	8·6	230	9·3	230	8·8	210	8·5	210	5·9	210	6·2	200	9·2	190	11·7
6	240	7·0	230	6·2	250	8·6	250	6·1	250	4·7	240	5·0	260	4·5	270	4·6	290	5·6	240	5·6	250	4·0	290	5·5
7	270	5·0	260	5·3	260	5·5	260	5·6	260	7·3	260	9·5	270	7·8	280	6·0	260	6·0	230	4·5	210	4·9	220	4·0
8	240	11·1	250	9·0	250	10·1	250	10·7	250	8·4	250	11·0	240	9·2	240	9·5	240	9·9	250	10·6	250	12·0	260	11·7
9	270	6·7	270	9·2	280	8·4	280	7·5	290	8·5	280	7·2	270	5·5	270	5·4	240	4·0	230	4·8	260	5·0	280	6·5
10	230	8·0	250	6·7	270	5·7	290	10·0	300	14·1	310	14·2	300	15·9	300	18·3	300	18·4	300	20·2	310	18·9	310	19·5
11	290	5·0	290	5·4	280	4·2	280	4·9	280	4·9	280	3·6	270	2·8	330	0·9	250	2·9	260	3·7	260	3·5	230	4·5
12	230	5·1	250	4·6	230	4·0	260	2·1	270	6·9	270	6·4	270	6·9	280	9·9	290	9·6	280	4·0	270	2·0	310	5·1
13	250	8·0	240	7·2	250	6·0	220	5·5	210	5·0	200	4·0	220	5·2	220	6·0	220	6·6	230	7·2	230	8·3	230	8·3
14	220	8·1	220	7·8	220	6·9	220	7·2	220	7·3	220	7·9	220	7·0	220	5·9	230	5·9	250	6·1	260	8·1	250	7·2
15	280	6·5	290	5·0	300	5·6	300	7·5	310	8·0	360	6·3	40	4·5	20	4·5	10	3·5	10	2·5	30	3·4	20	4·8
16	10	0·7	10	1·4	20	1·2	10	1·5	10	2·4	360	2·0	360	1·1	10	1·5	360	1·4	360	2·2	10	1·3	10	1·2
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	220	2·8	200	2·7	170	1·9	200	3·0	200	4·5	190	4·5	190	4·2	190	3·8	210	5·5	210	5·9	210	5·5
20	170	2·5	170	2·9	170	1·8	140	1·4	...	...	160	2·2	150	2·1	...	...	...	...	...	...	...	...	...	...
21	360	2·6	360	2·5	360	3·0	360	2·5	...	...	20	1·0	360	1·5	20	1·5	20	1·6	30	1·2	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	220	4·5	190	2·3	190	2·9	190	5·1	200	4·8	200	5·6	190	4·1
23	180	8·7	180	8·7	200	11·6	200	12·9	200	11·4	200	12·8	200	12·0	210	13·3	200	11·6	200	9·9	190	8·0	200	6·6
24	220	13·2	220	12·8	220	11·6	220	10·6	220	10·5	220	10·2	220	15·0	220	16·8	210	11·8	210	12·0	210	11·2	230	12·9
25	260	10·5	230	6·3	230	7·6	230	6·0	230	7·3	240	6·7	210	6·0	210	4·0	210	4·2	210	5·6	220	6·5	220	6·4
26	190	4·5	180	4·0	210	3·7	200	3·7	200	4·4	210	5·3	220	7·0	250	7·0	220	5·5	250	5·6	270	5·5	230	6·9
27	260	8·5	260	8·4	270	7·2	260	6·5	260	6·3	250	5·6	250	5·8	250	6·5	250	6·5	250	8·5	240	9·3	230	8·1
28	260	15·9	270	11·8	280	12·5	280	11·6	280	(11·3)	290	(9·5)	290	(8·7)	290	11·0	270	5·7	280	5·1	290	7·6	300	8·8
29	310	(9·5)	330	*	360	*	350	*	340	*	310	*	310	(10·7)	310	11·2	310	12·5	330	13·3	340	13·7	350	13·2
30	350	(7·3)	360	*	350	*	350	*	330	*	330	*	340	(10·8)	350	11·5	330	11·2	340	10·9	340	10·0	340	8·5
31	320	*	...	*	210	*	...	*	320	*	310	*	330	(2·5)	(320)	2·0	(270)	0·8	...	...	...	...	...	...
†Mean...	—	6·6	—	6·2	—	6·2	—	**6·0**	—	6·2	—	6·3	—	6·1	—	6·6	—	6·1	—	6·2	—	6·2	—	6·6
Annual Mean...	—	4·1	—	**4·0**	—	4·1	—	4·2	—	4·2	—	4·3	—	4·4	—	4·8	—	5·2	—	5·6	—	5·9	—	6·2

* Velocity record defective. † Mean for 28 days only; 29th to 31st omitted.

Averages for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 235 metres + 15 metres.

November, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day.
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
210	11·4	210	11·0	210	10·4	200	9·4	200	7·0	200	7·6	200	8·5	200	8·8	200	9·1	210	10·0	210	10·6	200	9·1	8·9	1
200	11·4	210	11·9	210	11·5	200	9·0	200	8·5	190	9·5	200	12·2	200	14·2	210	15·0	200	14·8	200	15·2	200	15·9	10·3	2
210	14·6	210	13·2	220	13·3	260	8·2	240	2·5	220	4·8	220	7·0	210	7·4	210	7·9	210	12·1	210	14·6	220	14·7	**13·7**	3
240	14·4	240	13·3	230	13·0	240	12·5	260	11·6	260	13·3	260	9·8	250	6·9	220	4·7	200	4·6	210	5·0	210	4·2	10·3	4
240	5·5	240	5·3	200	5·0	200	3·8	200	3·0	210	2·0	...	...	270	1·3	200	1·0	170	3·1	170	4·6	170	5·1	2·7	5
170	10·5	170	9·8	170	7·6	170	6·4	170	6·6	170	7·5	180	5·2	210	5·8	220	2·7	210	1·4	...	...	...	...	6·1	6
110	2·1	90	1·7	100	1·4	...	...	...	...	...	...	...	...	...	...	220	1·2	...	...	...	...	...	...	1·0	7
130	1·9	80	3·3	70	2·9	80	3·0	80	2·5	90	2·4	80	2·9	120	2·5	130	3·3	120	5·1	140	3·3	140	2·6	2·4	8
150	5·8	140	6·3	150	6·2	160	5·2	140	3·2	140	4·4	150	5·8	170	5·5	190	4·8	200	2·7	...	...	...	...	4·4	9
160	6·9	170	5·9	160	6·0	160	6·1	170	5·9	170	4·7	160	6·0	160	5·6	160	5·9	170	4·7	170	4·5	160	3·9	4·6	10
230	4·5	240	5·0	230	5·1	240	3·0	250	3·0	240	2·5	240	3·2	200	3·2	230	4·9	260	4·5	220	2·3	120	1·2	2·7	11
250	3·7	290	3·8	300	4·5	300	4·5	300	2·1	300	2·0	290	3·0	300	3·4	340	2·9	300	3·0	290	3·5	280	4·6	3·3	12
200	7·5	200	6·4	190	6·5	190	4·0	190	4·5	190	4·2	190	6·0	190	6·1	190	4·8	190	4·8	190	5·1	190	6·1	3·7	13
170	4·5	170	4·2	160	4·2	160	4·6	170	3·7	180	2·2	...	...	...	...	...	...	...	...	...	...	...	...	3·8	14
30	4·0	20	3·5	20	3·2	20	3·0	10	2·5	10	2·8	20	3·6	10	2·4	10	2·9	10	2·0	10	1·0	350	1·3	2·5	15
40	2·1	10	2·1	360	2·1	30	0·9	20	1·5	20	1·0	360	1·2	...	...	...	...	...	...	350	1·1	...	...	1·6	16
170	7·1	170	6·6	170	5·4	170	4·8	170	5·5	170	5·0	170	4·9	160	5·0	160	4·5	160	5·1	160	5·7	170	5·6	4·2	17
170	6·6	180	6·0	180	5·0	180	4·0	190	3·0	210	1·7	...	...	...	...	...	...	...	...	...	...	...	...	5·2	18
170	3·2	170	4·5	170	5·1	170	5·0	170	5·0	170	4·3	170	3·3	170	3·5	160	4·1	160	5·0	160	4·2	160	4·3	2·6	19
170	9·2	170	9·0	170	8·6	170	8·2	180	7·3	210	10·1	210	9·3	190	6·4	190	8·1	190	8·9	190	9·2	200	8·7	5·9	20
230	8·6	230	7·5	230	7·4	220	6·5	220	5·4	210	5·6	230	5·2	200	3·6	...	...	...	...	...	...	...	...	5·2	21
...	...	190	1·1	150	1·4	...	...	160	1·0	160	2·1	150	3·0	170	3·0	140	3·7	150	6·2	150	7·5	150	8·7	1·7	22
180	7·0	170	6·9	170	6·6	170	7·2	170	7·2	170	7·9	160	7·9	160	7·4	170	7·4	160	7·2	170	6·0	170	5·1	7·6	23
210	6·0	210	7·7	210	5·7	200	6·5	200	9·0	200	10·0	200	10·1	210	11·2	210	11·2	210	11·6	210	11·5	220	11·0	7·0	24
210	7·7	210	6·1	200	6·0	180	2·8	...	...	160	4·2	160	5·6	170	5·7	170	5·9	170	9·1	170	8·8	170	7·0	7·6	25
160	9·1	160	9·0	170	8·6	190	7·1	230	6·2	230	2·6	210	1·5	210	3·4	220	3·1	...	...	220	2·2	230	1·2	6·1	26
150	8·0	150	9·2	150	8·7	160	4·7	100	1·4	20	1·5	40	2·9	30	2·7	10	3·4	360	3·0	360	3·6	30	4·5	4·7	27
110	4·5	100	4·1	80	2·6	120	3·3	140	4·1	140	4·2	160	2·0	150	2·0	170	2·0	160	4·0	180	2·9	170	4·0	3·8	28
180	2·5	200	2·5	190	2·1	...	...	...	...	180	1·1	...	...	330	1·5	300	0·8	300	1·0	300	2·2	300	1·8	2·8	29
...	...	...	...	...	...	...	...	...	...	...	...	330	1·1	330	1·1	...	...	340	1·1	350	2·0	...	...	**0·7**	30
—	**6·4**	—	6·2	—	5·9	—	4·9	—	4·2	—	4·4	—	4·5	—	4·4	—	4·3	—	4·6	—	4·7	—	4·5	4·9	

December and Year, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day.
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
190	5·1	200	7·0	210	8·4	210	9·5	220	9·0	200	8·3	190	6·9	200	7·1	210	7·5	200	6·7	200	6·6	200	8·2	4·7	1
190	7·6	200	10·5	200	12·5	190	11·4	170	9·0	170	7·4	170	8·0	190	13·5	190	14·0	190	15·4	190	15·4	190	16·1	9·8	2
230	16·5	240	15·4	250	15·7	240	14·1	240	12·0	250	11·5	250	11·6	250	13·6	250	11·5	240	11·3	240	11·5	240	9·0	**13·6**	3
240	8·6	260	7·0	250	8·0	230	5·2	240	8·6	260	10·3	280	10·5	290	11·4	290	12·3	290	12·7	300	14·6	300	13·1	9·2	4
190	13·0	220	12·5	230	9·5	210	6·5	200	4·6	210	4·5	190	4·3	200	3·8	200	4·6	190	4·2	170	2·6	220	5·0	7·6	5
300	5·0	230	1·9	200	1·5	100	2·1	240	2·0	320	2·5	310	7·8	300	8·5	280	5·0	290	5·1	270	5·0	260	5·0	4·9	6
240	6·3	220	6·5	210	6·4	210	7·2	220	7·5	210	6·5	220	6·6	220	7·7	200	6·5	210	8·8	210	10·0	220	9·0	6·6	7
250	10·9	260	11·5	250	10·0	260	10·1	260	8·6	270	9·4	270	7·4	280	6·1	280	7·5	270	7·5	280	7·5	270	6·5	9·5	8
270	4·6	280	5·8	290	5·7	290	6·5	300	9·5	300	7·0	280	4·3	250	1·8	230	3·0	200	3·6	210	3·0	220	3·8	5·8	9
300	15·6	270	4·9	300	9·6	300	14·5	270	6·9	280	4·5	200	3·6	230	3·8	360	3·6	260	4·1	270	4·0	270	2·5	10·3	10
210	4·5	240	4·8	240	4·5	230	4·6	230	5·5	250	5·1	260	5·9	240	6·1	250	7·2	250	8·1	250	6·6	250	5·5	4·7	11
260	4·2	260	5·0	260	4·0	250	6·0	230	5·1	230	7·8	240	7·7	220	6·3	230	6·3	230	5·9	230	7·3	240	6·6	5·8	12
220	8·3	230	9·1	230	7·2	230	7·7	240	8·1	230	8·0	230	6·5	230	7·5	220	7·9	230	10·2	210	7·6	210	7·5	7·2	13
240	8·6	250	8·6	250	9·4	250	9·5	250	7·4	250	6·8	260	6·7	270	6·4	270	8·9	270	7·0	270	7·9	280	8·0	7·5	14
20	4·0	20	3·6	20	2·7	20	2·8	20	1·7	360	2·7	360	2·3	20	1·7	360	2·1	360	1·5	360	1·7	10	1·4	3·9	15
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	16
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	**0·5**	17
...	...	...	...	...	...	...	...	...	...	...	...	170	2·5	...	...	...	...	...	...	160	1·7	180	2·8	0·7	18
200	5·2	200	4·7	200	4·6	200	4·6	210	3·7	210	2·4	180	1·9	...	...	...	...	180	2·6	180	2·5	...	...	3·3	19
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	360	1·8	...	...	...	...	...	...	1·0	20
...	...	...	...	...	...	...	...	...	...	...	...	...	...	200	1·8	...	...	...	...	...	...	...	...	1·1	21
190	5·6	180	5·2	190	6·7	190	4·8	190	5·3	180	6·3	190	6·2	190	6·3	190	6·0	200	5·6	190	5·3	190	8·9	4·2	22
200	6·5	210	7·7	210	8·2	200	7·5	200	7·7	200	8·8	210	11·7	210	13·5	210	13·0	210	11·8	220	10·9	220	11·6	10·2	23
220	14·2	220	12·4	220	12·1	220	12·4	230	14·7	230	12·6	280	8·3	270	8·1	270	8·5	270	9·6	270	10·5	270	13·1	11·8	24
250	7·3	240	6·6	250	4·4	260	4·8	270	5·7	250	5·6	220	5·0	230	5·0	230	5·3	240	6·0	220	5·2	220	6·5	6·2	25
220	5·6	240	4·7	240	5·6	240	7·1	240	7·1	250	6·8	250	6·7	250	7·0	240	6·5	240	5·6	250	4·5	270	8·1	5·7	26
240	10·5	250	13·4	240	10·2	240	12·4	240	11·5	240	15·0	250	18·0	250	19·1	260	19·1	260	19·8	240	16·5	260	17·0	11·1	27
300	7·9	290	7·9	270	6·2	270	6·8	280	9·5	280	8·0	280	9·2	290	10·8	300	13·5	300	13·1	310	10·2	300	7·6	9·8	28
350	11·4	350	11·2	340	10·8	340	10·3	350	9·3	340	10·0	340	10·7	350	10·0	350	9·2	350	8·5	350	7·4	340	7·7	—	29
340	10·4	340	6·4	340	6·6	330	6·5	330	10·0	330	7·8	310	(7·0)	310	...	310	(7·8)	240	2·3	...	...	320	(2·2)	—	30
150	0·7	160	1·0	170	1·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	180	5·0	180	4·8	—	31
—	6·7	—	6·4	—	6·3	—	6·5	—	6·2	—	6·1	—	6·1	—	6·4	—	6·6	—	**6·7**	—	6·5	—	6·6	6·3	
—	6·2	—	**6·2**	—	6·2	—	5·9	—	5·5	—	5·2	—	4·9	—	4·6	—	4·4	—	4·3	—	4·2	—	4·2	4·9	

249. Eskdalemuir : H_a = 235 metres + 15 metres. **1931.**

Day.	Jan.		Feb.		Mar.		April		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.
	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.
1	5	17 30	17	14 20	**22**	7 20	16	15 15	17	12 30	11	16 0	12	14 15	7	9 50	11	22 25	19	13 40	17	13 5	13	16 25
2	13	16 30	17	22 0	12	12 45	13	12 35	8	13 50	12	21 20	14	18 20	10	23 15	15	15 5	21	15 25	23	22 35	23	23 55
3	5	11 50	17	1 10	8	19 0	8	12 40	9	17 45	12	4 10	15	12 55	13	16 40	16	10 5	19	1 5	**28**	15 5	27	8 10
4	4	10 0	6	10 5	13	11 0	18	17 5	12	11 50	14	19 0	15	10 50	12	16 35	**22**	14 55	15	12 40	25	4 15	25	22 40
5	4	13 55	10	23 55	13	18 30	14	5 40	16	15 15	14	17 55	8	8 20	13	11 5	17	1 50	19	10 35	12	11 55	22	13 35
6	2	16 15	11	0 40	19	13 0	7	15 25	13	1 45	13	8 30	10	20 5	11	19 40	10	8 15	17	12 25	14	13 15	14	2 45
7	1	17 5	9	11 25	13	12 25	9	16 5	10	11 40	9	7 25	8	16 45	10	5 45	5	14 55	18	14 55	6	10 35	15	22 15
8	13	17 55	16	15 0	13	23 45	13	21 0	15	11 55	10	17 5	11	16 55	**18**	17 10	15	13 40	17	5 20	8	22 10	17	12 10
9	12	11 30	20	20 30	12	0 30	7	16 0	8	15 50	11	16 55	12	15 55	14	8 40	7	1 5	**25**	4 50	12	15 30	17	16 30
10	12	12 45	19	1 10	16	21 30	12	14 35	17	20 35	15	17 5	7	10 35	10	11 5	8	14 25	15	23 40	11	10 10	28	10 5
11	14	17 25	28	13 10	15	1 5	14	16 2	21	18 30	13	7 30	11	15 15	13	20 5	11	14 50	15	0 55	8	14 35	12	20 50
12	13	23 20	**30**	12 40	9	6 5	15	16 20	14	23 0	5	18 05	13	9 40	12	18 55	12	15 35	17	11 25	8	23 50	19	8 10
13	17	5 20	14	0 35	12	9 5	18	11 35	19	12 35	9	16 45	12	15 0	8	18 35	9	11 55	15	15 30	10	23 55	14	22 10
14	14	22 25	15	0 25	9	4 20	19	4 40	20	12 35	9	7 40	10	11 0	16	13 35	8	9 47	9	3 25	10	0 35	15	15 25
15	21	23 15	16	8 40	5	23 30	11	21 30	15	6 20	**23**	4 45	10	11 45	9	12 5	9	15 5	8	13 20	6	12 45	13	6 5
16	**34**	18 0	11	3 55	14	21 40	22	17 20	10	13 25	22	1 30	11	11 30	9	16 40	11	23 55	5	14 20	5	11 40	4	5 45
17	32	3 35	20	4 35	12	10 40	19	23 45	10	14 15	14	16 45	12	14 45	11	17 25	12	0 35	9	14 50	11	13 0	3	15 30
18	11	0 30	17	2 45	7	13 0	**22**	9 10	9	16 0	16	15 15	13	16 35	10	12 20	9	23 20	8	2 55	17	8 30	3	18 55
19	19	6 0	13	13 20	10	15 20	19	10 35	11	14 25	14	12 25	12	17 5	15	13 5	12	10 15	14	23 35	9	14 30	8	10 10
20	19	12 10	22	12 40	9	14 15	16	10 5	9	8 55	13	23 5	12	20 30	14	23 55	11	20 25	19	10 0	15	17 45	4	2 10
21	6	19 20	15	3 10	9	20 45	10	20 30	10	12 45	20	15 5	13	16 5	15	5 5	13	9 45	8	9 30	16	0 5	4	3 25
22	15	23 25	12	13 40	7	9 45	13	12 20	11	6 40	19	3 45	21	20 20	8	11 25	9	15 5	10	11 15	14	23 50	13	23 55
23	22	1 50	11	17 5	10	16 50	13	12 50	9	12 50	8	20 25	17	11 55	7	12 35	7	23 55	7	23 40	15	4 20	20	7 50
24	27	5 50	13	11 50	14	11 35	16	18 10	20	22 45	10	15 25	11	13 35	11	16 15	8	15 45	17	7 55	18	21 40	22	7 45
25	21	6 55	22	17 20	11	8 25	15	15 35	**22**	14 0	8	14 30	7	9 45	9	17 20	5	16 35	8	12 40	16	4 35	20	0 50
26	19	15 40	18	16 25	6	10 0	13	9 5	16	0 25	14	13 50	10	11 5	8	15 10	5	15 25	11	15 10	16	12 20	15	17 35
27	13	1 40	11	15 0	8	13 25	21	15 30	13	15 40	17	4 15	18	19 20	7	12 45	11	23 25	17	22 0	14	14 15	**29**	24 0
29	10	9 15	15	16 30	12	9 20	13	13 40	17	14 5	13	16 50	**26**	20 10	9	18 5	11	0 55	14	5 55	9	9 55	27	1 20
28	15	20 0	—	—	15	14 25	7	10 15	9	0 25	13	5 45	15	11 45	12	13 40	11	13 35	8	16 30	9	2 30	21	11 0
30	10	0 10	—	—	14	23 50	13	10 10	10	14 0	8	13 25	11	12 40	11	9 40	13	21 55	11	2 55	3	19 55	17	8 40
31	13	17 15	—	—	15	15 15	—	—	11	11 0	—	—	10	11 40	7	12 5	—	—	7	23 50	—	—	8	22 50

DISTRIBUTION OF WIND SPEED : EXTREME VELOCITIES AS RECORDED BY THE DINES TUBE ANEMOGRAPH.

250. Eskdalemuir : H_a = 235 metres + 15 metres. **1931.**

Month.	DISTRIBUTION OF WIND SPEED.								EXTREME VELOCITIES.							
	More than 17·1 m/s.		10·8 to 17·1 m/s.		5·5 to 10·7 m/s.	1·6 to 5·4 m/s.	Less than 1·6 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.			
	Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Veer from N.	Speed.	Mid Time.		Speed.	Date.		
		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hour.	m/s.	day.	h.	m.
Jan.	16th, 17th	3	8	57	191	242	251	—	300	19	16	19	34	16	18	0
Feb.	11th, 12th	13	13	59	280	215	105	—	320	21	12	13	30	12	12	40
Mar.	—	—	2	15	248	335	146	—	340	15	1	8	22	1	7	20
April	—	—	8	44	291	280	105	—	30	14	18	9	22	18	9	10
May	—	—	9	77	226	312	129	—	220	16	25	14	22	25	14	0
June	—	—	5	35	246	327	107	5	210	15	16	7	23	15	4	45
July	28	2	5	28	294	282	137	1	310	19	28	20	26	28	20	10
Aug.	—	—	1	4	231	355	150	4	20	13	8	13	18	8	17	10
Sept.	—	—	3	16	152	324	228	—	20	15	4	16	22	4	14	55
Oct.	—	—	11	61	280	240	163	—	210	16	9	10	25	9	4	50
Nov.	3rd	7	5	45	219	290	159	—	210	19	3	10	28	3	15	5
Dec.	3rd, 10th, 27th	10	12	107	305	169	137	16	300	20	10	10	29	27	24	0
Year	9 days	35	82	548	2963	3371	1817	26	320	21	Feb. 12	13	34	Jan. 16	18	0

251. Eskdalemuir. *Readings, in degrees absolute, at 9h Greenwich Mean Time.* **1931.**

Day.	Jan. 30 cm	Jan. 122 cm	Feb. 30 cm	Feb. 122 cm	Mar. 30 cm	Mar. 122 cm	April 30 cm	April 122 cm	May 30 cm	May 122 cm	June 30 cm	June 122 cm
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	77·1*	79·6	75·3	78·1	75·6	77·7	76·7	77·7	79·2	78·7	84·0	80·7
2	76·5	79·5	75·2	78·2	75·3	77·7	76·5	77·8	79·2	78·9	83·6	80·7
3	76·4	79·5	75·2	78·2	75·2	77·7	76·3	77·7	79·1	79·0	82·8	81·0
4	76·3	79·6	75·2	78·1	75·1	77·6	76·4	77·7	79·3	78·8	82·4	81·0
5	76·2	79·4	75·1	78·1	75·0	77·7	76·8	77·8	79·7	78·9	82·9	81·0
6	77·1	79·3	75·1	78·0	75·0	77·7	76·9	77·8	79·8	78·9	82·9	81·0
7	75·8	79·3	75·1	78·0	74·8	77·7	77·1	77·8	80·4	79·0	82·3	81·0
8	75·6	79·2	75·3	77·9	74·7	77·6	77·6	77·8	80·6	79·0	82·4	81·1
9	75·4	79·2	75·8	77·9	74·7	77·6	78·1	77·9	80·7	79·1	82·8	81·1
10	75·3	79·1	76·4	77·9	74·7	77·6	78·6	77·9	81·3	79·1	83·2	81·1
11	75·2	79·0	76·4	78·0	74·7	77·4	79·1	77·9	81·4	79·1	83·5	81·1
12	75·2	78·9	76·1	78·0	74·7	77·4	79·4	78·0	81·4	79·2	84·1	81·1
13	75·1	78·9	75·9	77·9	74·7	77·4	79·1	78·0	81·4	79·2	84·0	81·1
14	75·1	78·8	75·7	78·1	74·7	77·3	79·1	78·1	81·4	79·4	84·7	81·1
15	75·7	78·7	75·8	78·1	74·7	77·2	79·1	78·2	81·4	79·4	84·6	81·2
16	75·2	78·6	75·4	78·1	74·7	77·2	79·1	78·1	81·6	79·4	84·2	81·3
17	75·3	78·7	75·3	78·1	74·7	77·3	79·1	79·0	82·0	79·5	84·4	81·3
18	75·3	78·6	75·3	78·0	74·7	77·2	78·2	78·8	82·2	79·8	84·3	81·4
19	75·4	78·3	75·2	78·0	75·2	77·2	78·3	78·4	82·5	79·8	83·9	81·5
20	75·8	78·3	75·3	77·9	76·1	77·1	78·1	78·4	82·3	79·9	83·7	81·8
21	75·8	78·3	75·2	77·9	74·9	77·4	78·0	78·4	81·9	79·9	83·9	81·7
22	76·3	78·5	75·2	77·9	77·6	77·1	78·1	78·4	81·9	80·0	84·2	81·9
23	76·4	78·2	75·2	77·8	77·9	77·1	78·8*	78·4	81·7	80·1	84·5	82·0
24	76·4	78·2	75·1	77·8	78·0	77·1	78·9*	78·4	82·0	80·1	84·5	81·9
25	76·4	78·2	75·3	77·7	77·9	77·1	79·3	78·4	82·2	80·1	84·6	82·0
26	75·9	78·3	76·3	77·8	77·9	77·4	79·4	78·5	82·4	80·1	84·8	82·0
27	75·6	78·4	76·3	77·8	77·4	77·4	78·9	78·4	82·8	80·2	85·0	82·0
28	75·7	78·3	75·8	77·7	77·5	77·6	78·9	78·5	83·1	80·2	84·1	82·1
29	75·4	78·4	—	—	77·1	77·7	79·1	78·6	83·2	80·3	85·3	82·2
30	75·4	78·2	—	—	76·7	77·6	79·3	78·6	84·1	80·4	85·1	82·2
31	75·7	78·3	—	—	76·6	77·7	—	—	83·9	80·4	—	—
Mean	75·8	78·8	75·5	78·0	75·8	77·4	78·3	78·2	81·5	79·5	83·9	81·4

Day.	July 30 cm	July 122 cm	Aug. 30 cm	Aug. 122 cm	Sept. 30 cm	Sept. 122 cm	Oct. 30 cm	Oct. 122 cm	Nov. 30 cm	Nov. 122 cm	Dec. 30 cm	Dec. 122cm
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	84·9	82·2	86·2	83·9	85·9	84·2	83·9	83·6	79·1	82·1	78·7	81·1
2	85·0	82·3	86·7	83·8	86·2	84·2	84·1	83·5	79·7	82·1	78·6	81·1
3	85·0	82·4	86·6	83·8	85·7	84·3	84·1	83·6	80·3	82·0	78·9	80·9
4	85·1	82·6	86·8	83·9	85·2	84·3	84·1	83·6	80·9	82·1	79·1	80·9
5	85·2	82·6	86·9	83·9	84·7	84·1	84·4	83·6	80·9	82·0	79·1	80·9
6	85·5	82·6	87·3	83·9	84·4	84·2	84·7	83·6	80·7	82·0	78·9	80·9
7	85·7	82·6	87·8	83·9	84·2	84·1	84·6	83·6	80·8	81·8	78·5	80·9
8	85·9	82·7	87·4	84·1	84·1	84·2	84·1	83·8	80·6	81·9	78·7	80·9
9	85·8	82·8	86·8	84·1	84·1	84·2	84·1	83·6	80·7	81·9	78·3	80·7
10	86·4	82·8	86·4	84·1	83·9	84·2	83·9	83·8	80·6	81·9	78·6	80·7
11	86·3	83·0	86·3	84·2	83·6	84·1	83·7	83·7	80·6	81·8	79·1	80·7
12	86·4	82·9	86·2	84·2	83·4	84·0	83·7	83·7	80·6	81·8	79·6	80·6
13	86·7	83·1	86·4	84·1	83·1	84·0	83·6	83·5	80·3	81·8	79·4	80·5
14	86·6	83·1	86·3	84·2	83·3	83·9	83·3	83·4	80·2	81·7	79·6	80·6
15	86·6	83·1	86·3	84·2	83·8	83·9	83·0	83·4	80·2	81·7	79·6	80·5
16	86·8	83·2	86·3	84·2	84·4	83·8	82·9	83·3	79·9	81·8	79·0	80·5
17	86·8	83·2	86·3	84·2	84·7	83·8	82·8	83·7	79·5	81·6	78·3	80·4
18	86·5	83·2	86·3	84·2	84·7	83·7	82·8	83·6	79·2	81·5	77·9	80·4
19	86·3	83·4	86·4	84·2	85·3	84·0	82·6	83·4	79·1	81·7	77·5	80·6
20	86·1	83·5	86·2	84·2	84·8	84·0	82·6	83·3	79·1	81·6	77·5	80·6
21	85·9	83·5	86·0	84·2	85·2	83·9	81·9	83·2	79·2	81·4	77·7	80·4
22	85·9	83·5	85·8	84·3	84·1	83·7	81·2	83·1	78·7	81·4	77·8	80·3
23	85·9	83·7	85·7	84·2	84·1	83·8	80·6	83·2	78·5	81·3	77·7	80·3
24	85·9	83·7	85·6	84·2	84·2	83·6	80·1	83·1	78·8	81·2	78·1	80·3
25	86·3	83·7	85·3	84·2	84·3	83·7	79·7	83·1	79·1	81·1	78·6	80·2
26	86·3	83·7	85·2	84·1	84·3	83·6	79·1	83·0	79·6	81·1	78·6	80·1
27	86·5	83·7	85·6	84·2	84·2	83·7	79·1	82·9	79·7	81·1	79·0	80·1
28	86·2	83·8	85·7	84·2	84·1	83·6	79·4	82·4	79·4	81·1	79·0	80·1
29	85·8	83·8	85·7	84·2	84·1	83·6	79·5	82·6	79·3	81·1	78·4	80·1
30	85·6	83·8	85·9	84·3	84·1	83·5	79·4	82·5	79·1	81·1	77·7	80·1
31	85·9	83·8	85·9	84·1	—	—	79·0	82·2	—	—	77·1	80·1
Mean	86·0	83·2	86·3	84·1	84·4	83·9	82·3	83·3	79·8	81·6	78·5	80·5
Year											80·7	80·8

* Absolute thermometer—Fahrenheit thermometer frozen in tube.
The initial 2 or 3 of the readings is omitted; *i.e.* 275·0 degrees absolute is written 75·0.

MINIMUM TEMPERATURE "ON THE GRASS" DURING THE INTERVAL 18H. TO 7H. G.M.T.

252. Eskdalemuir. *Readings, in degrees absolute.* **1931.**

Month.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	62·5	72·7	66·0	65·7	70·5	80·9	81·7	82·6	70·0	81·0	79·1	71·0
2	68·6	67·5	**59·2**	72·7	71·6	78·0	83·0	81·2	81·2	84·0	80·3	77·9
3	69·0	72·8	69·4	71·8	**64·8**	76·9	81·1	84·0	79·8	78·4	81·9	77·1
4	69·8	71·6	70·8	66·2	69·3	79·3	84·9	82·8	79·0	81·0	80·2	77·3
5	64·2	72·0	68·3	71·1	72·3	79·9	83·1	80·5	78·3	85·9	72·0	74·2
6	62·2	72·7	68·3	**64·1**	77·6	75·9	**76·5**	84·9	69·6	83·9	72·5	73·0
7	**61·1**	71·5	62·0	67·0	74·5	77·5	83·3	83·6	71·6	74·1	79·0	71·1
8	66·7	75·3	66·0	78·4	77·9	78·7	82·3	81·3	69·6	77·5	75·3	74·3
9	67·1	78·1	65·3	78·8	70·2	82·8	81·0	74·2	74·1	84·0	78·0	75·1
10	72·7	72·1	66·3	67·4	79·4	83·1	83·0	78·0	72·0	73·9	73·3	79·4
11	73·0	71·8	71·0	78·0	81·3	82·0	82·1	75·2	65·9	77·8	77·3	78·5
12	71·7	72·7	66·0	74·2	76·0	75·1	82·9	76·2	77·0	75·0	74·7	77·4
13	70·5	—	65·4	70·5	79·1	72·0	80·1	83·2	**65·5**	74·4	73·7	77·4
14	63·5	68·9	71·2	77·1	80·0	84·2	79·2	80·7	78·7	72·7	74·6	75·3
15	74·4	72·5	68·1	76·0	80·0	80·1	83·0	81·7	82·7	71·9	76·0	77·0
16	78·5	70·0	70·8	70·5	73·9	83·0	79·4	81·0	78·8	71·7	70·1	67·6
17	73·7	66·9	67·9	73·0	73·6	81·8	83·8	83·8	82·9	72·9	68·9	72·0
18	71·8	71·3	66·9	71·0	79·5	80·4	83·4	82·1	70·9	77·1	75·7	65·3
19	72·9	69·2	70·7	70·9	77·0	77·5	81·4	78·6	84·8	75·1	73·7	73·6
20	70·6	74·5	77·9	70·9	68·2	72·5	76·8	84·0	70·5	71·7	74·6	76·0
21	70·0	71·0	77·9	65·3	67·5	81·8	76·7	82·8	72·0	66·7	72·0	70·0
22	71·4	68·1	77·9	74·9	72·9	84·1	83·5	74·9	69·4	62·9	**66·2**	69·9
23	74·0	67·2	74·2	73·2	78·1	79·3	83·6	**71·8**	80·6	63·5	73·0	73·2
24	72·4	**63·1**	71·9	77·3	80·7	76·8	82·9	72·0	79·1	70·2	74·4	79·0
25	72·0	75·8	71·0	77·0	81·0	70·8	83·2	76·3	81·0	66·0	79·0	77·0
26	67·8	74·9	64·8	75·7	79·7	**69·4**	82·0	74·5	73·0	**61·1**	79·1	75·9
27	63·2	68·9	63·7	73·9	73·0	85·0	80·7	72·3	72·1	71·0	73·0	80·5
28	71·9	64·9	72·0	72·0	80·0	82·1	82·9	74·5	77·5	75·7	75·8	73·1
29	72·8	—	67·1	70·5	74·3	76·0	80·9	77·5	80·2	68·9	73·0	68·8
30	65·8	—	72·4	69·2	80·1	69·9	82·6	80·1	80·0	70·1	72·0	68·1
31	63·4	—	73·3	—	82·0	—	79·7	77·9	—	65·6	—	**64·3**
Mean ...	69·3	*71·0	69·2	72·1	75·7	78·6	81·6	79·2	75·6	73·7	74·9	73·9

NOTES.—(1) The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 is written 75·0.
(2) The minimum refers to the interval from 18h. the previous day to 7h. on the day to which it is entered.
(3) Annual Mean 274·6.
* Mean for 27 days only.

253. Eskdalemuir. January, 1931.

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	St-Cu.	St-Cu.	St : St-Cu.	1	5	9	9	9	9	j	k	j	j	D	D	...	...	...	...	...	...	b ⊔, bcp✱^{0}, c ⊔ *a* : c ⊔, cf ⊔ *p* : cif ⊔ *n*.
2	St-Cu.	Cu : St-Cu.	St-Cu.	2	6	6	3	9	7	k	k	j	k	j	j	...	...	...	...	...	...	b ⊔ *a* : bc ⊔, c ⊔ *p* : bc ⊔ ⋓ *n*.
3	St.	St.	St.	10	10	9	10	10	10	D	D	G	C	C	C	...	...	...	...	✱	...	of ⊔, cm$_0$ *a* : cm$_0$, of, o✱f *p* : o✱f, of *n*.
4	St-Cu:A-Cu(lent)	Cu : St-Cu.	Cu : St-Cu.	2	6	2	3	2	1	i	k	k	k	i	h	...	...	...	...	...	...	cp ●, *a* : bz$_0$ *p* : bz$_0$, bm$_0$ ⊔ *n*.
5	Cu : St-Cu.	St-Cu.	St-Cu.	4	2	9	9	9	1	j	l	l	l	k	k	...	...	...	...	...	...	bc⊔, b ⊔, c *a* : c *p* : c, b, b ⊔ *n*.
6	Ci.	Ci.	Ci.	6	6	1	2	1	2	k	m	m	m	m	l	...	...	...	...	...	...	⋓, bc ⊔ () *a* : b ⊔ () *p* : b ⊔ (), b ⊔ *n*.
7	St-Cu.	A-Cu : Ci.	St-Cu : A-Cu.	9	9	6	9	8	9	k	l	k	j	j	h	...	...	...	...	...	...	bc ⊔, *a* : bc ⊔, c ⊔ *p* : cm$_0$ ⊔ *n*.
8	St-Cu.	St.	Nb.	9	9	10	10	10	6	i	j	G	I	h	h	...	...	...	...	●^{0}	...	o⊔ *a* : c●^{0} *p* : c●^{0} *n* : m$_0$ all day.
9	A-Cu : Ci-Cu : Ci	St-Cu : A-Cu.	St-Cu.	1	6	9	9	9	8	l	l	k	k	j	j	...	...	...	...	...	...	bc ⊔, c *a* : cp●^{0} *p* : cp ●^{0} *n*.
10	St-Cu.	St-Cu.	St-Cu.	10	9	6	10	9	10	j	j	j	h	j	j	...	d$_0$	...	pd$_0$	...	d$_0$	cp●^{0}, cid$_0$ *a* : cpd$_0$ *p* : cid$_0$ *n*.
11	St.	Nb.	Nb.	10	10	10	10	10	4	f	h	h	h	i	j	d$_0$	d$_0$	●	d	●	...	od$_0$m$_0$, o●m$_0$ *a* : odm$_0$, oi●m$_0$ *p* : o●m$_0$ *n*.
12	St-Cu.	St-Cu.	St-Cu.	8	9	9	6	7	10	j	F	k	k	k	k	...	...	...	...	...	...	cid$_0$, c ⊔ m *a* : c, bc *p* : cp✸^{0} *n*.
13	St-Cu : A-Cu.	Fr-Cu.	—	3	1	1	1	0	0	k	l	k	k	k	k	...	...	...	...	...	...	bcp✸, bcp✱ *a* : b *p* : b, b ⊔ *n*.
14	A-Cu.	St.	St.	4	9	10	10	10	10	l	l	h	G	g	h	...	...	✱^{0}	...	d$_0$	d$_0$	bc ⊔, o✱^{0}m$_0$ *a* : o✱^{0}m$_0$, of, oid$_0$m$_0$ *p* : oid$_0$m$_0$ *n*.
15	St-Cu : Ci-St.	St.	St-Cu.	10	9	10	9	10	9	j	k	h	j	j	j	...	...	id$_0$	...	...	d$_0$	oid$_0$m$_0$ *a* : oid$_0$m$_0$, cq, c *p* : c, cid$_0$ *n*.
16	St.	Nb.	St-Cu.	10	10	10	10	8	9	i	I	h	h	j	i	d$_0$	d$_0$	●	●	p●^{0}	p●^{0}	od$_0$m$_0$, o● *a* : o●m$_0$, c, cp●^{0}q ⟋ *p* : cp●q ⟋, [cp✸q *n*.
17	Nb.	Fr-Cu.	A-St.	10	8	1	2	1	6	j	l	l	m	l	l	p✱^{0}	...	...	...	...	...	cp✸^{2}q, cp✱^{0} ⟋ *a* : b ⊔ *p* : bc ⊔ *n*.
18	A-Cu(lent):Ci-St.	St.	Nb.	8	10	10	10	10	10	k	l	k	h	h	h	...	...	✱^{0}	✱^{0}	✱^{0}	d$_0$	c ⊔, o✱^{0} *a* : o✱^{0}m$_0$ *p* : o✱^{0}m$_0$, od$_0$m$_0$ *n*.
19	St-Cu.	St-Cu : Ci-St.	St-Cu : Ci-St.	5	9	10	8	9	0	j	k	k	k	k	k	...	...	...	...	...	...	od$_0$m$_0$, bc, c *a* : c *p* : c, b ⊔ *n*.
20	St.	Fr-Cu : Ci.	St-Cu.	10	8	4	8	7	2	F	I	h	k	k	k	●	...	...	...	...	...	b ⊔, o●m$_0$, cm$_0$ *a* : bc, c *p* : bcp●^{0}, b *n*.
21	St.	St-Cu.	Nb.	10	10	10	10	10	10	h	j	I	h	h	h	...	...	...	●^{0}	●	●	om$_0$, cm$_0$ *a* : cm$_0$, c●^{0}m$_0$ *p* : o●m$_0$ *n*.
22	A-Cu.	St-Cu.	St-Cu : A-St.	1	6	9	10	10	10	k	k	k	k	j	h	...	...	...	...	...	✸	o●m$_0$, bc ⊔ *a* : cp● *p* : c●^{0}m$_0$, o✸m$_0$, o●m$_0$ *n*.
23	St.	St-Cu.	Nb : A-St.	9	7	9	7	10	8	j	j	j	j	I	I	...	...	...	...	●	...	o●m$_0$, cp● *a* : c● *p* : ci●, cp▲, cp● *n*.
24	Nb.	St-Cu : A-Cu : Ci.	Cu-Nb.	10	10	9	7	8	3	I	I	k	k	j	k	p✱	p✸	...	...	p✸	...	op▲, oi✸, op✱m$_0$, cp✸ *a* : bcp●^{0}, cp✸ *p* : cp✸ *n*.
25	St-Cu.	Cu : A-Cu.	St-Cu : Ci.	3	4	6	8	4	8	j	k	k	k	k	j	...	...	...	...	...	...	⊞ c✱, bcp✱^{0} *a* : cp✱^{0} *p* : bc, c *n*.
26	St-Cu.	Cu-Nb:Cu:A-Cu.	—	8	1	4	1	0	1	k	l	k	k	k	k	...	...	...	...	...	...	b ⊔, *a* : bcp✱, b ⊔ *p* : b ⊔ *n*.
27	—	Cu:Ci-Cu:Ci-St.	A-St.	0	1	3	6	10	10	k	k	k	k	k	g	...	...	...	...	...	d	b ⊔, bc *a* : bc, c *p* : cp✱^{0}, c●, odm$_0$ *n*.
28	A-St.	Nb.	Nb.	9	9	10	10	10	10	h	I	h	h	h	C	...	...	✸^{0}	●^{0}	✸^{0}	d$_0$	odm$_0$, ci✸^{0}m$_0$ *a* : o●^{0}, o✸^{0}m$_0$ *p* : o✸m$_0$, od$_0$F *n*.
29	Nb.	St : A-St.	Nb.	10	10	10	10	10	9	G	h	h	h	G	j	✱	✱^{0}	...	...	✱	✱^{0}	⊞ od$_0$F, o✱m *a* : cm$_0$, o✱^{0}m *p* : o✱^{0}m$_0$, ci✱^{0} ⊔ *n*.
30	—	Cu : Ci.	Ci.	0	1	1	4	1	2	k	l	k	k	k	k	...	...	...	...	...	...	b ⊔, b *a* : b, bc, b ⊔ *p* : b ⊔ *n*.
31	Nb.	Nb.	Nb.	10	10	10	10	10	10	F	F	F	G	G	G	✱^{0}	✱^{0}	✱	✱	✸	d$_0$	⊞ bc ⊔, o✱m ⇸ *a* : o✱m$_0$ ⇸, o✸m$_0$ *p* : o✸m$_0$, [od$_0$m$_0$ *n*.
Mean Cloud Am'nt.				6·5	7·1	7·2	7·5	7·5	6·6													

254. Eskdalemuir. February, 1931.

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	St.	St-Cu : A-Cu.	Cu.	10	10	9	4	1	1	D	I	l	l	l	k	...	●^{0}	...	...	...	...	⊞ 5cm., od$_0$, of, ci●^{0}m$_0$ *a* : c, bc, b *p* : b ⊔ *n*.
2	St : St-Cu.	St : St-Cu.	St:St-Cu:A-Cu.	9	10	9	7	9	10	j	j	j	j	j	h	...	i●^{0}	p✸	...	i●^{0}	d$_0$	ci●^{0}, cp✸ *a* : cp✸, ci●^{0} *p* : ci●^{0}, cd$_0$m$_0$ *n*.
3	Nb : A-St.	St-Cu.	St-Cu : A-Cu.	10	9	8	9	8	10	i	j	j	k	h	j	✸	...	...	...	...	...	c✸m$_0$ *a* : c, cm$_0$ *p* : cm$_0$, c *n*.
4	St-Cu.	Nb.	St.	10	10	10	10	10	10	i	h	I	h	h	h	...	✱^{0}	✱^{0}	✱^{0}	...	...	o✱^{0} *a* : od$_0$, o✱^{0}, o *p* : op✱^{0}, ofe *n*.
5	St.	St.	St.	10	10	10	9	10	10	D	G	h	h	g	g	...	...	...	...	...	...	⊞ of, om$_0$ *a* : om$_0$ *p* : om$_0$ *n*.
6	Nb.	Nb.	St.	10	10	10	10	10	10	g	h	F	D	E	d	✸	✱	✱	✱^{0}	...	...	od$_0$, o●^{0}m$_0$, o✸^{0}m$_0$, o✱m *a* : o✱, o✱^{0}f *p* : ofe *n*.
7	St.	Nb.	St.	10	10	10	10	10	10	C	C	h	h	h	C	...	...	d	d$_0$	d$_0$	...	⊞ oF, od, o✸ *a* : od$_0$m$_0$ *p* : od$_0$m$_0$, oF, o●m$_0$ *n*.
8	Nb.	Nb.	St.	10	10	10	10	10	10	h	h	h	h	c	c	●	d	d	d	d$_0$	d$_0$	oi●m$_0$, odm$_0$ *a* : odm$_0$, odF *p* : od$_0$ F *n*.
9	St.	St-Cu : Ci-Cu : Ci-St.	St : Ci-St.	10	9	7	6	9	10	C	k	j	j	h	i	...	...	...	...	...	...	od$_0$F, oFe *a* : bc, cm$_0$ *p* : om$_0$ o●m$_0$ *n*.
10	St-Cu.	St : St-Cu.	St-Cu.	7	9	9	8	9	7	k	j	k	j	k	j	...	...	...	...	...	p✸	o●m$_0$ early, cp✸ *a* : cp✸^{0} *p* : c, bcp✸^{0}, cp✱ *n*.
11	St-Cu.	Nb.	Nb.	10	10	10	10	10	9	k	j	I	I	h	h	p●^{0}	...	✸^{2}	✸	p✸	p✱	cp●, o✸^{2}m$_0$ *a* : o✸m$_0$, cp✸q *p* : cp✱ ↯ *n*.
12	St-Cu.	St-Cu : Ci.	St-Cu.	5	6	4	1	1	4	k	k	k	k	k	k	...	p✸^{0}	p✸^{0}	...	...	...	cp✱, cp●, bcp✸^{0} ⟋ *a* : bp✸ ⟋, by ⟋, b ⊔ *p* : bc ⊔ *n*
13	St-Cu.	Fr-Cu : A-Cu (lent).	St-Cu : Ci.	5	9	1	7	2	0	k	j	k	k	j	j	...	p✱^{0}	...	...	...	...	⊞ 1cm, o✱, bc, cp✱^{0}, by *a* : by, bcy *p* : b ⊔ *n*.
14	Ci.	Ci-St.	Nb : A-St.	4	5	10	10	10	10	k	l	l	l	I	I	...	...	...	...	✱^{0}	✱^{0}	b ⊔, cy *a* : cy, ci✱^{0}m$_0$ *p* : o✱^{0}m$_0$ *n*.
15	St-Cu.	St-Cu.	St.	9	6	7	7	9	10	j	k	k	k	j	I	...	...	p●^{0}	...	p✸	✱	o●^{0}m$_0$, bcp●^{0} *a* : cp●, cp✸ *p* : cp✸, o✱m$_0$ *n*.
16	St-Cu.	Cu : Ci.	St-Cu.	7	7	3	9	9	1	j	I	k	k	I	I	...	✱^{0}	...	...	...	...	⊞ o✱m$_0$ early, c✱^{0}m$_0$ *a* : bc, cm$_0$ *p* : cm$_0$, bm$_0$ *n*.
17	Nb.	Nb : Cu : St-Cu.	St-Cu.	10	7	10	10	10	5	F	j	h	k	k	k	✱	...	p✱	...	...	...	⊞ 1cm., o✱m, cp✸, cp✱ *a* : cp✱ *p* : cp✱^{0} *n*.
18	St-Cu.	St-Cu.	St-Cu.	9	7	10	9	10	8	j	k	k	k	k	k	...	...	✱^{0}	p✱	...	...	cp✱, bc, ci✱^{0} *a* : cp✱, c *p* : c *n*.
19	St-Cu.	Nb : A-St.	Nb.	10	10	10	10	10	10	k	k	j	h	G	f	...	...	d$_0$	d$_0$	d$_0$	d	ci✱^{0}, cid$_0$ *a* : od$_0$m$_0$ *p* : odm$_0$ *n*.
20	Nb.	Nb.	St-Cu.	10	10	10	9	8	2	G	G	h	k	k	k	●	●^{0}	✸^{0}	...	...	...	o●m$_0$, odm$_0$, o▲^{2}✸^{2} kq *a* : cp✸q *p* : cp✱^{0}, b ⊔ *n*
21	Cu.	Cu-Nb.	Cu-Nb.	8	8	7	6	2	10	k	k	k	l	k	F	...	...	...	...	p✱	p✱	b ⊔, c✱^{2}▲ *a* : bc, c✱^{2}, bcp✱^{0} ⇸ *p* : cp✱ ⇸m$_0$ *n*.
22	Cu : St-Cu.	St : A-St.	Nb : A-St.	4	10	10	10	10	2	j	j	k	i	j	k	...	✱^{0}	...	✸^{0}	✸^{0}	...	⊞ cp✱ ⇸, c✱^{0} *a* : ci✸^{0} *p* : c✸^{0}, b ⊔ *n*.
23	Nb.	St-Cu : Ci.	Cu : St-Cu.	10	10	7	3	1	0	j	h	l	k	k	h	✱^{0}	✱^{0}	...	...	...	...	⊞ b⊔, o✱^{0}m$_0$ *a* : bc, b ⊔ *p* : b ⊔ m$_0$ *n*.
24	St.	Nb.	Nb.	10	10	10	10	10	10	j	h	I	h	D	h	...	✱^{0}	✸	●^{0}	d$_0$	d$_0$	o⊔, o✱^{0}, od$_0$, o✸m$_0$ *a* : o✸, ●^{0}d$_0$m$_0$, od$_0$f *p* : od$_0$m$_0$ *n*
25	St.	Nb.	St.	10	10	10	9	7	9	h	h	h	h	k	j	d$_0$	d$_0$	●	d	...	d$_0$	oid$_0$m$_0$, ȯi●m$_0$ *a* : o●m$_0$, cidm$_0$ *p* : cid$_0$ *n*.
26	St-Cu : A-Cu (lent).	Cu : Ci-Cu : Ci.	Cu.	8	9	8	9	1	0	m	m	k	l	l	k	...	...	p✱^{0}	...	...	p✱^{0}	cid$_0$ early, c, cp✱^{0}y *a* : cp✱^{0}y *p* : b ⊔ p✱^{0} *n*.
27	St-Cu : A-St.	St-Cu:A-St:Ci-St.	Nb : A-St.	9	10	9	10	10	8	k	j	j	k	j	j	✱^{0}	...	...	...	✱^{0}	...	bc ⊔, ci✱^{0} ⊔, cp✱ *a* : c✱^{0} *p* : c✱^{0} *n*.
28	A-Cu : A-St : Ci.	Ci.	Nb : A-St.	8	6	2	2	9	6	l	l	l	l	l	k	...	...	...	...	...	...	by *a* : by, bcyp✱^{0} *p* : cp✱^{0} *n*.
Mean Cloud Am'nt.				8·6	8·8	8·2	8·0	7·7	6·8													

7h 13h 18h Cloud Forms. 7h 9h 13h 15h 18h 21h Cloud Amount (All Forms). 7h 9h 13h 15h 18h 21h Visibility. 7h 9h 13h 15h 18h 21h Precipitation. Remarks on the Weather of the Day.

255. Eskdalemuir. **March, 1931.**

Day.	Cloud Forms. 7h	13h	18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	Fr-St : Cu-Nb.	St-Cu : A-Cu : Ci.	Fr-Cu : A-Cu : Ci.	2	10	9	4	2	1	l	F	l	l	l	l	…	✱	…	…	…	…	b, o✱m ⊹, bc a : bc, b p : b n.
2	Ci : Ci-St.	Cu : Ci : Ci-Cu.	St-Cu : Ci.	2	6	6	7	8	9	l	k	k	k	k	k	…	…	…	…	…	…	b ⊔, a : bcp✱^{0}, c p : c n.
3	Nb : A-St.	St-Cu.	Nb : A-St.	10	10	10	10	10	9	j	I	k	k	k	j	i✱^{0}	✱^{0}	…	…	✱^{0}	…	ci✱^{0} a : ci✱^{0} p : ci✱^{0}, c n.
4	St-Cu : A-Cu : Ci-St.	Cu : St-Cu : Ci-St.	St-Cu : Ci.	9	7	9	10	9	1	m	m	k	k	k	j	…	…	…	…	…	…	c (), bc (), cy a : cy, c p : c, b n.
5	A-St : A-Cu.	St-Cu.	St-Cu : A-St : A-Cu.	9	5	9	9	9	9	k	k	k	k	j	i	…	…	…	…	…	…	b, c, bc, c a : cy, c p : cz$_0$, bc n.
6	St-Cu : A-Cu : Ci.	Cu : St-Cu.	Cu-Nb : St-Cu.	8	7	7	5	2	2	k	k	k	k	l	k	…	…	…	…	…	…	cp✱^{0}, bcp✱^{0} a : bcy, cp✱^{0} p : b ⊔ n.
7	Cu : St-Cu : A-St.	Cu : Ci-St : Ci-Cu.	Nb : St-Cu.	9	9	8	8	9	9	l	l	m	j	k	j	…	p✱^{0}	…	p✱^{0}	…	p✱^{0}	⊠ b ⊔, cp✱ a : cp✱ p : cp✱ n.
8	St-Cu.	Nb : St-Cu.	St-Cu.	3	1	10	9	8	9	l	l	k	k	k	k	…	…	✱^{0}	✱^{0}	✱^{0}	…	⊠ cp✱ ⊹, c✱^{0} a : ci✱^{0} p : ci✱ n.
9	St-Cu : Ci.	Cu : Ci-St.	St-Cu : Ci.	4	3	4	5	4	10	l	l	k	k	l	j	…	…	…	…	p✱^{0}	✱^{0}	⊠ ci✱, bc a : bcp✱^{0} p : bcp✱^{0}, o✱^{0} n.
10	St-Cu : Ci.	St.	St : St-Cu.	3	5	10	9	9	6	k	k	i	I	I	i	…	…	✱^{0}	…	✱^{0}	…	⊠ o✱^{0}, oi✱^{0}m$_0$ a : cp✱^{0} p : cp✱^{0}m$_0$ n.
11	St-Cu.	Cu : Ci.	St-Cu : A-Cu : Ci.	9	5	7	10	8	2	m	l	m	m	k	k	…	…	…	…	…	…	op✱^{0} a : bc, c p : c, b ⊔ n.
12	Ci.	Cu : Ci.	St-Cu : Ci.	1	1	4	7	7	1	l	l	l	l	l	j	…	…	…	…	…	…	b ⊔, bcy a : bcy ⊕ p : b ⊔ n.
13	St.	Nb : A-St.	St-Cu.	10	10	10	10	9	5	G	I	I	I	I	j	●^{0}	●	✸	●	●^{0}	…	⊠ 1cm., c⊔, o✱m$_0$, o●m$_0$, c✸^{0} a : o✸m$_0$, c●^{0}m$_0$ p : [c✱^{0} n.
14	St.	St : A-St.	St-Cu.	10	10	9	9	5	8	I	j	k	k	j	j	…	p✱^{0}	…	…	…	…	⊠ 6cm., o✱m$_0$ cp✱^{0} a : c, bc p : bc, c n.
15	St : A-St.	St.	St-Cu : Ci.	9	10	9	9	6	0	I	I	I	I	j	j	…	✸^{0}	…	●^{0}	…	…	o✸m$_0$ a : cm$_0$, cp●^{0} p : b ⊔ n.
16	St-Cu.	Cu.	St-Cu : Ci.	10	10	3	8	9	4	I	j	k	k	j	j	…	…	…	…	…	…	b ⊔, cp●^{0}, bcy a : bcy p : c, bc n.
17	Cu : Ci.	A-Cu : Ci.	Ci.	4	6	6	1	5	0	k	k	k	k	k	h	…	…	…	…	…	…	bc ⊔, a : bc, by p : bc, b ⊔ m$_0$ n.
18	Ci.	Ci.	Ci.	2	0	1	1	1	0	I	I	I	I	j	j	…	…	…	…	…	…	b ⊔ m$_0$, bz$_0$ y a : bz$_0$ y p : b ⊔ n.
19	St.	Cu : Ci.	A-St : Ci-St.	10	5	3	9	9	10	G	G	j	k	j	j	…	…	…	…	…	…	b ⊔, cp●^{0}, om$_0$, bcy a : bcy, cy ⊕ p : c n.
20	St-Cu : A-St.	St-Cu : Ci-St.	A-Cu (lent) Ci.	8	9	8	8	6	5	j	j	j	k	j	I	…	…	…	…	…	…	ci●^{0}, cy a : cy, bc p : bcm$_0$ n.
21	A-St.	Nb.	St.	9	10	10	10	10	10	G	I	h	h	C	E	…	…	●^{0}	d$_0$	…	d$_0$	c●m$_0$, oi●^{0}m$_0$ a : cd$_0$m$_0$, oFe p : oFe, od$_0$F n.
22	St.	St.	St : A-St.	10	10	10	10	9	10	D	E	C	C	G	C	…	…	●^{0}d$_0$	…	…	…	ofe, oFid$_0$ a : oF●^{0}d$_0$, oFe, cm$_0$ p : cm$_0$, oFe n.
23	St-Cu.	St.	St-Cu.	10	9	10	10	9	9	j	k	j	j	k	j	…	…	id$_0$	i●^{0}	…	…	c, oid$_0$ a : oid$_0$, ci●^{0} p : c n.
24	St-Cu.	St-Cu.	St-Cu : Ci.	9	9	9	3	2	2	m	m	m	m	m	m	…	…	…	…	…	…	c, a : c, bcy, b p : b ⊔ n.
25	St-Cu : Ci-Cu.	Ci.	Ci.	6	7	7	7	4	0	m	m	k	k	j	h	…	…	…	…	…	…	b ⊔, bcy a : bcy p : bm$_0$ ⊔ n.
26	Ci.	Ci.	Cu.	1	1	1	0	1	0	k	j	j	k	k	j	…	…	…	…	…	…	b ⊔, by a : by p : by, b ⊔ n.
27	Ci.	Ci.	A-Cu.	3	8	7	1	6	1	h	G	h	G	G	G	…	…	…	…	…	…	b ⊔ m$_0$, bcz$_0$ y a : bcz$_0$ y p : bcz$_0$, bm ⌓ n.
28	St.	St-Cu : A-St.	St-Cu.	10	10	10	10	9	8	k	l	l	l	l	l	id$_0$	i●^{0}	i✱^{0}	…	…	…	oid$_0$, oi●^{0}, ci✱^{0} a : ci✱^{0}, c p : c, bc n.
29	A-St : Ci-St : Ci.	A-Cu : Ci-St : Ci.	St-Cu.	9	9	9	9	10	9	m	l	l	j	I	g	…	…	…	…	✱^{0}	✱^{0}	b ⊔, c ⊔ (), cy a : cy, c✱^{0}z$_0$ p : o✱^{0}m$_0$ n.
30	St.	St-Cu : A-St.	St-Cu : A-St.	10	10	10	10	9	10	I	k	k	j	j	j	…	…	…	…	…	…	o✱m$_0$, om$_0$, ci✱^{0} a : c p and n.
31	St : St-Cu.	A-Cu.	A-Cu : Ci.	9	7	3	1	4	6	k	k	k	k	k	j	…	…	…	…	…	…	bcy a : by p : bcy, b ⊔ n.
Mean Cloud Am'nt.				7·0	7·0	7·4	7·0	6·7	5·4													

256. Eskdalemuir. **April, 1931.**

Day.	Cloud Forms. 7h	13h	18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	Ci.	Ci-St : Ci.	A-St.	1	1	9	9	10	10	k	k	k	k	j	j	…	…	…	…	…	…	b ⊔, cy a : cy, c p : c n.
2	Nb.	Nb.	Nb : A-St.	10	10	10	10	10	10	h	j	I	I	j	i	✱^{0}	✸^{0}	✸^{0}	✱^{0}△^{0}	…	…	⊠ c✱^{0}m$_0$, o✸^{0}m$_0$ a : o✸^{0}m$_0$, o▲^{0}✱^{0}m$_0$, c p : cp●, c n.
3	St : St-Cu : A-Cu.	St-Cu.	St-Cu.	9	9	9	9	5	1	k	k	j	j	k	k	…	…	…	…	…	…	c a : c, bc p : bc, b n.
4	St-Cu : Ci.	St-Cu : A-St.	St-Cu : A-Cu : Ci-St.	5	5	10	10	9	9	l	l	m	j	l	l	…	…	…	p●	…	i●^{0}	cp●^{0}, cy a : cp● p : ci●^{0}, c● n.
5	St-Cu : A-Cu (lent).	Cu : Ci-St : Ci.	Cu.	1	1	4	1	1	1	m	m	m	m	m	m	…	…	…	…	…	…	c●, b⊔, early a : bcy p : by, b ⊔ n.
6	Ci.	Cu : Ci.	A-Cu (lent) Ci.	1	9	5	1	1	0	k	m	m	l	m	m	…	…	…	…	…	…	b ⊔, cy ⊕, bcy a : bcy, by p : by, b ⊔ n.
7	St-Cu.	Cu : St-Cu : A-Cu.	St-Cu.	9	10	9	10	10	10	I	I	k	I	I	i	…	…	…	…	…	d$_0$	b ⊔, c ⊔ m$_0$, cz$_0$, cy a : cy, cz$_0$ p : cz$_0$, cd$_0$ n.
8	St-Cu.	St-Cu : A-St.	St-Cu : A-St.	10	10	10	10	10	10	h	h	h	j	j	i	…	…	…	p●^{0}	i●^{0}	…	cd$_0$m$_0$, cm$_0$, cz$_0$ a : cz$_0$, cp●^{0}y, ci●^{0} p : ci●^{0}m$_0$, om$_0$ n
9	St.	Cu : St-Cu : A-Cu.	Cu.	10	10	9	7	1	0	D	I	k	k	k	k	…	…	…	…	…	…	ofe, of●^{0}, cm$_0$, cy a : bcy p : b ⊔ n.
10	Ci.	Cu : Ci-St : Ci.	St-Cu : A-Cu.	5	3	9	6	9	10	l	k	l	l	l	j	…	…	…	…	…	d$_0$	b ⊔, bcy, cy a : bcy p : cd$_0$ n.
11	St : A-St.	Cu : A-St.	St : A-Cu.	10	10	8	7	8	10	j	j	k	k	i	e	…	…	…	…	…	…	cpd$_0$ a : bcy, cm$_0$ p : cm$_0$, ofe n.
12	St-Cu.	Cu : St-Cu.	Cu : St-Cu.	9	9	10	7	6	2	l	l	l	m	l	l	…	…	…	…	…	…	o●f, cp●^{0}, cy a : cy, bcy (), cp● p : b n.
13	St-Cu : Ci	Cu : St-Cu.	Nb.	3	9	9	9	10	9	l	k	k	l	I	I	…	…	…	…	●	…	cp●^{0}, cy a : cy, cp●^{0}, o●m$_0$ p : oi●^{0}m$_0$, cm$_0$ n.
14	St-Cu : A-Cu : Ci.	St-Cu : A-Cu : A-St.	St-Cu.	7	8	8	9	10	9	k	k	k	m	l	j	…	…	…	…	…	…	cm$_0$, cy a : cy, p : c n.
15	St : St-Cu.	Nb.	St-Cu.	9	10	10	10	10	5	I	I	I	j	k	k	…	…	●^{0}	●^{0}	…	…	c●^{0}, cm$_0$, cp●, o●^{0}m$_0$ a : o●^{0}m$_0$ p : cp●^{0} n.
16	Cu : Ci.	St-Cu : A-St.	Nb : A-St.	7	10	10	10	10	10	l	j	k	m	j	j	…	…	…	●^{0}	●^{0}	●	ci● a : ci●^{0} p : c● n.
17	Cu : A-Cu : Ci.	Cu-Nb : Cu : Ci.	Nb.	3	7	7	9	10	10	k	k	m	m	I	i	…	…	p✱^{0}	…	✸	✸	cp✱^{2}q, bcyp✱^{0} () a : bcp✱^{0} (), o✸m$_0$ p : o✸m$_0$ n.
18	Cu : St-Cu : Ci.	St-Cu.	Cu : St-Cu.	3	8	10	10	6	1	m	m	k	k	m	k	…	…	p✸^{0}	✸^{0}	…	…	bcp✱^{0}, cp✸ a : ci✸^{0} p : bc, b n.
19	Cu : A-Cu : Ci.	Cu : A-Cu : Ci-Cu.	Cu : St-Cu : Ci.	1	5	8	8	8	5	m	m	m	m	l	k	…	…	…	…	…	…	cp✱^{0} early, b ⊔, bcy a : cy p : c, bc n.
20	St-Cu : Ci-Cu : Ci.	Cu.	Cu : St-Cu.	4	9	7	6	6	1	l	k	l	m	m	k	…	p✸^{0}	…	…	…	…	bc ⊔, cp✸^{0}, bcy a : bcy () p : bcy (), b ⊔ n.
21	St-Cu.	Cu : St-Cu.	Cu : St-Cu.	9	8	9	9	9	3	m	m	l	l	m	k	…	…	…	…	…	…	b ⊔, c ⊔ (), cy a : cy p : cy, cp●^{0} n.
22	St-Cu.	Cu : St-Cu.	Nb : St-Cu.	8	10	9	10	7	9	m	l	m	k	m	k	…	…	…	p●	p●	p●^{0}	cp●^{0}, cy a : cy, cp●▲, cp● p : cp●^{0} n.
23	Nb.	Cu : Ci-St.	Nb : A-St.	10	10	7	10	10	9	j	j	k	j	k	k	●^{0}	●	…	●^{0}	●	●^{0}	ci●, cp●, bcp▲^{0} a : cp●^{0}, ci● p : ci● n.
24	St : A-Cu : Ci.	Cu : A-St.	Nb : A-St.	6	8	10	10	10	4	j	k	I	j	h	h	…	…	…	…	p●	…	cp●^{0}, cz$_0$ a : cz$_0$, cp● p : cp●m$_0$, bcm$_0$ n.
25	Nb : A-St.	Nb : A-St.	Nb : A-St.	10	10	10	9	10	10	j	j	j	j	j	i	●^{0}	●^{0}	●^{0}	…	●^{0}	●^{0}	ci●$_0$ a : ci●^{0} p : ci●^{0}, o● n.
26	Nb.	Nb : A-St.	St.	10	10	10	10	10	7	j	j	I	I	I	j	●	●	d$_0$	d$_0$	…	…	oi●, c●, cd$_0$m$_0$ a : cid$_0$m$_0$, om$_0$ p : om$_0$, bc n.
27	St-Cu : A-St.	Cu-Nb.	Cu-Nb : Cu : A-Cu.	10	10	9	5	3	1	j	l	k	l	m	j	…	●^{0}	△✸	…	…	…	c●m$_0$, cp✸▲q a : cp●▲, bcyp● p : bcy, b n.
28	St-Cu.	Cu-Nb : A-Cu.	Cu-Nb : St-Cu.	7	5	8	6	9	1	k	k	k	m	m	k	…	…	…	…	…	…	cp✸▲ a : cp✸, bc ()t, c () p : c (), b n.
29	A-Cu.	Cu : St-Cu.	Cu : St-Cu.	1	4	9	9	9	1	k	k	l	l	l	l	…	…	…	…	…	…	b ⊔, cy a : cy p : bc ⊔ ⊍ n.
30	A-St : A-Cu : Ci-St	Cu : St-Cu A-St.	Cu : St-Cu : Ci-Cu.	10	9	10	10	8	8	m	l	m	l	l	k	…	…	…	p●^{0}	…	…	bc ⊔ ⊍ early, c (), cy a : cy, cp●^{0} p : c ⊍, b n.
Mean Cloud Am'nt.				6·6	7·9	8·7	8·2	7·8	5·9													

257. Eskdalemuir. **May, 1931.**

Day.	Cloud Forms. 7h	13h	18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	Nb : A-St.	Cu : St-Cu.	Cu : St-Cu.	10	9	9	6	6	1	j	k	m	m	m	l	i●^{0}	...	...	...	...	...	b ⌴, ci●^{0}, cp✱, cy *a* : cy, cp●▲, bc () *p* : bc () *n*.
2	Cu : St-Cu.	Cu : St-Cu.	Cu : St-Cu : Ci.	7	7	7	7	5	1	l	l	l	l	l	l	...	...	...	...	...	...	b ⌴, bcyp▲^{0} *a* : bcyp▲^{0} *p* : bcy *n*.
3	A-Cu : Ci.	Cu.	St-Cu : Ci.	3	3	7	7	8	5	k	l	l	l	l	l	...	...	...	...	...	...	bc ⌴, bcy *a* : bcy, cy *p* : cy, b ⌴ *n*.
4	St-Cu : Ci.	Cu : Ci.	Cu : St-Cu : Ci.	5	4	6	8	6	6	k	k	l	l	l	k	...	...	...	...	...	...	b ⌴, bcy *a* : bcy *p* : bcy *n*.
5	Cu-Nb : St-Cu.	Cu.	St-Cu : A-St : Ci.	9	8	7	7	9	10	k	k	k	m	m	k	...	...	...	...	...	●	cp●▲^{0}, cp✱▲T, bcy *a* : bcy () *p* : c (), c● *n*.
6	St-Cu : A-St : Ci.	Cu:St-Cu:A-Cu.	Cu : St-Cu.	9	9	8	10	9	7	k	k	k	k	k	k	...	...	...	...	...	...	cy *a* : cy, cp● *p* : cp●^{0} *n*.
7	Cu : A-Cu : Ci.	Cu-Nb : St-Cu.	St-Cu : Ci.	8	9	9	10	9	9	k	j	I	h	j	k	...	...	...	●^{0}	...	...	c ☈ ●^{2} ▲^{2}, cT m^0 *a* : cT ●^{0}m$_0$, c *p* : c *n*.
8	Nb : A-St.	Cu : Ci.	Cu : St-Cu : Ci.	10	10	7	6	5	1	I	I	k	k	k	k	●	●	...	...	...	...	c●m$_0$ *a* : bcy *p* : bc, b *n*.
9	Ci.	Cu : Ci.	A-St.	7	2	9	10	10	10	l	l	k	k	k	k	...	...	...	...	...	...	b ⌴, bcy *a* : cy *p* : cy *n*.
10	St.	St.	St.	10	10	10	10	10	10	h	F	F	h	G	G	●^{0}	d	...	●	●	●	c, o●^{0}, odm *a* : om, o●m$_0$ *p* : o●m$_0$ *n*.
11	St.	Cu.	Cu : St-Cu.	10	6	9	5	5	1	h	j	k	k	k	k	●	...	...	...	...	...	o●m$_0$ *a* : cp●, cp●^{2} kq *p* : bcp●q *n*.
12	St-Cu.	St.	St-Cu.	10	9	10	9	10	10	I	j	h	j	j	E	...	...	...	...	...	...	cm$_0$, om$_0$ *a* : om$_0$ *p* : of *n*.
13	St-Cu.	Nb : A-St.	St-Cu : A-St.	10	10	10	10	10	10	k	j	I	I	j	I	...	d$_0$	●	●	...	d$_0$	of, od$_0$, c●m$_0$ *a* : c●m$_0$, ci●^{0} *p* : od$_0$m$_0$ *n*.
14	St.	Nb : A-St.	Nb : A-St.	10	9	10	9	10	10	h	j	j	j	I	I	...	...	●^{0}	...	●	...	o●, om$_0$, op●^{0} *a* : ci●^{0}, c●m$_0$ *p* : c●^{2}m$_0$ *n*.
15	St-Cu.	Cu : St-Cu.	Cu : A-Cu : Ci-St.	10	10	9	7	7	9	j	j	k	l	l	k	...	...	...	...	...	...	c●m$_0$, cp●^{0} *a* : bcy *p* : bc, c *n*.
16	St.	Cu : Ci.	Cu:Cu-Nb:Ci-St.	10	7	7	9	10	9	I	j	l	l	l	l	...	...	...	...	p●	...	bc ⏝, om$_0$ ⏝, bcy *a* : cp● *p* : cp● *n*.
17	A-St : A-Cu : Ci.	Cu:Ci-St:Ci-Cu.	Cu:St-Cu:A-St.	7	9	5	6	9	10	k	j	k	j	k	j	...	...	...	...	...	...	bc ⏝, c ⏝, *a* : bc, c *p* : c *n*.
18	St-Cu : A-Cu.	Cu.	Cu : Ci.	9	3	7	6	4	9	k	l	l	m	m	m	...	...	...	...	...	...	bcy *a* : bcy () *p* : bcy (), c () *n*.
19	St-Cu.	St-Cu.	Cu : St-Cu : Ci.	9	9	9	9	5	2	l	l	l	l	l	l	...	...	...	...	...	...	cp● early *a* : cy, bcy *p* : bcy, b *n*.
20	Cu : Fr-Cu : Ci.	Cu : St-Cu.	St-Cu.	1	9	9	6	6	1	k	k	l	l	l	l	...	...	...	...	...	...	b ⌴, cy *a* : cy, bcy *p* : bcy *n*.
21	Ci-Cu.	Cu.	Ci.	1	1	3	5	3	1	l	l	I	j	k	k	...	...	...	...	...	...	b ⌴, by, bcyz$_0$ *a* : bcyz$_0$, bcy, *p* : bcy, b *n*.
22	St-Cu : A-St : A-Cu.	St-Cu : A-St.	St.	9	9	10	10	10	10	k	k	k	j	I	h	...	p●^{0}	...	i●^{0}	●^{0}	●^{0}	cp●^{0} *a* : ci●^{0} *p* : o●^{0}m$_0$ *n*.
23	Cu : A-Cu : Ci.	St-Cu.	Nb : A-St.	6	10	10	10	10	10	I	I	j	j	I	I	...	...	...	...	●	i●^{0}	c●^{0}, bcm$_0$, ci●^{0}m$_0$ *a* : c●m$_0$ *p* : ci●^{0}m$_0$ *n*.
24	St-Cu : A-St.	Nb : A-St.	Nb : A-St.	10	10	10	10	10	9	j	I	I	I	j	j	i●^{0}	●	●	●^{0}	...	...	ci●^{0}, c●m$_0$ *a* : c●m$_0$ *p* : c *n*.
25	St : St-Cu.	Cu-Nb:St-Cu:Ci.	Cu : Fr-Cu.	9	8	9	6	6	4	j	j	j	k	k	k	...	...	p●	...	...	...	cp● *a* : cp●^{0} *p* : bc, c *n*.
26	Nb : A-St.	Cu : St-Cu : Ci.	Cu : St-Cu.	10	10	5	5	5	1	k	j	k	k	k	l	●^{0}	●^{0}	...	...	...	...	c●^{2}, ci●^{0} *a* : bc *p* : bc, b ⏝ *n*.
27	A-Cu.	Cu : Ci.	Cu : Ci.	3	6	6	5	5	9	l	l	j	j	k	k	...	...	...	...	...	...	bc ⏝, bcy *a* : bcy *p* : bc, c *n*.
28	St-Cu : A-St.	St-Cu : A-St.	Nb : A-St.	10	10	10	10	10	10	k	j	j	I	h	g	...	●^{0}	...	...	●^{2}	●	oi●^{0} *a* : om$_0$, c●^{2}m$_0$ *p* : c●^{2}m$_0$ *n*.
29	Cu : A-Cu (lent).	Cu : Ci.	Cu : A-St : A-Cu.	1	7	3	4	9	10	k	k	l	I	k	j	...	...	...	...	...	●^{0}	bcy *a* : bcy, cy *p* : cy T ●^{0} *n*.
30	Cu : Ci.	Cu : St-Cu.	St-Cu : A-St.	4	8	9	8	10	9	j	k	k	k	k	k	...	...	...	...	...	...	c, bc, c *a* : cy, cp●^{0} *p* : cp●^{0}, c● *n*.
31	Nb : A-St.	St-Cu : A-St.	St-Cu.	10	10	10	9	10	10	I	I	k	k	k	k	●	●	...	...	...	...	c●m$_0$ *a* : c *p* : c *n*.
Mean Cloud Am'nt.				7·6	7·8	8·0	7·7	7·8	6·9													

258. Eskdalemuir. **June, 1931.**

Day.	Cloud Forms. 7h	13h	18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	St-Cu : A-St.	St-Cu.	St-Cu.	10	10	10	10	10	10	k	k	l	k	k	k	...	...	...	d$_0$	...	...	cp●^{0} *a* : cid$_0$ *p* : c *n*.
2	St : A-St.	Nb : A-St.	Nb : A-St.	10	10	10	10	10	10	k	k	j	I	I	h	...	●^{0}	●^{0}	●	●	●	ci●^{0} *a* : c●^{0}, c●m$_0$ *p* : c●m$_0$ *n*.
3	St : A-St.	Nb : A-St.	Nb : A-St.	10	10	10	10	10	10	k	k	j	I	h	F	...	...	●^{0}	●	●	d$_0$	c●m$_0$, ci● *a* : c●m$_0$ *p* : ci●, od$_0$m *n*.
4	St.	Cu : St-Cu.	St : St-Cu.	10	4	9	7	9	10	G	j	k	j	I	I	...	...	...	...	...	...	oid$_0$m$_0$, om$_0$ *a* : cm$_0$ *p* : om$_0$ *n*.
5	St.	St-Cu.	St : A-Cu : A-St.	10	10	9	9	10	10	I	I	k	k	k	k	...	...	...	...	...	...	om$_0$, c *a* : cy ⊕ *p* : c *n*.
6	Nb : A-St.	Nb : A-St.	Nb : A-St.	10	10	10	10	10	10	h	j	j	j	j	j	●^{0}	●	●	●	●	●	c●^{0}m$_0$, c● *a* : c● *p* : c● *n*.
7	Nb : A-St.	St-Cu.	St-Cu.	10	10	10	10	10	10	j	j	k	k	k	h	...	●^{0}	...	...	...	...	ci●, c● *a* : c *p* : om$_0$ *n*.
8	St.	St-Cu.	Cu : St-Cu.	10	10	9	9	8	9	I	I	k	l	l	I	...	●	...	...	...	...	om$_0$, c●^{0}m$_0$ *a* : cp● *p* : cm$_0$ *n*.
9	St.	St-Cu : A-St.	St.	10	8	10	10	10	10	G	k	j	G	C	h	d	...	p●^{0}	●	d	●^{0}	odm$_0$, ci●^{0} *a* : ci●m$_0$, odF *p* : odF, o●^{0}m$_0$ *n*.
10	St.	Nb : A-St.	St.	10	10	10	10	10	10	I	C	I	F	F	F	...	...	●	d$_2$	●	●	oFe, od$_0$m, c●m$_0$ *a* : od$_2$m, o●mi●^{2} *p* : o●m *n*.
11	St-Cu.	Cu : Ci.	St-Cu:A-Cu:Ci.	10	9	6	6	8	5	k	k	k	l	l	l	...	...	...	...	...	...	o●m, cp●, bcy *a* : bcy *p* : c, b, bc *n*.
12	St-Cu : A-St.	St-Cu : A-St.	Cu : St-Cu.	9	10	10	10	8	6	k	j	k	k	k	j	...	●	...	...	...	...	ci● *a* : c *p* : c, bc, b ⏝ *n*.
13	St-Cu : A-Cu.	Cu : Ci : Ci-St.	St-Cu : A-St.	9	7	9	10	10	10	k	l	l	l	l	I	...	...	...	...	...	●	b ⌴, bcy, cy *a* : cy, cz$_0$ *p* : cz$_0$ c●m$_0$ *n*.
14	St-Cu : Ci.	St : A-St.	Nb : A-St.	9	9	10	10	10	10	j	j	I	I	G	I	...	...	●	●^{0}	●^{2}	●^{0}	ci●, c☈^{2}●m$_0$, *a* : c☈^{2}●m$_0$, c●^{2}m$_0$ *p* : c☈kq, c● *n*.
15	St-Cu.	St-Cu : A-St.	Nb : A-St.	9	7	10	9	10	10	k	l	l	k	I	I	...	...	...	...	●	●	c●, cp●, bcq *a* : c●m$_0$ *p* : c●m$_0$ *n*.
16	Nb : A-St.	Cu.	Cu : Ci-St.	10	10	7	8	10	8	I	I	l	I	k	I	●	d	...	...	...	...	c●m$_0$, cdm$_0$ *a* : bc, c *p* : cm$_0$ *n*.
17	St : A-St.	Cu-Nb : St-Cu.	Cu-Nb : St-Cu.	10	9	8	9	8	10	j	k	j	l	l	k	...	...	...	...	p●	...	cm$_0$, ci●^{0}, c ☈ ● *a* : cp● *p* : cp● *n*.
18	Nb : A-St.	Nb.	Cu : Nb : A-St.	10	9	10	9	10	8	j	j	j	k	j	j	●^{0}	...	●^{2}	...	...	...	c●^{0}, c●^{2}▲q *a* : c☈●^{2}▲q, cp●^{0} *p* : ci● *n*.
19	St-Cu.	Cu : A-Cu (lent).	Cu : St-Cu.	9	9	6	8	8	1	j	j	m	m	m	l	...	...	...	...	...	...	c, bc *a* : bc c () *p* : c (), b *n*.
20	St-Cu : A-St.	Cu : St-Cu.	St-Cu.	10	10	7	8	10	10	l	l	l	l	l	k	...	...	...	...	...	...	ci●^{0} early, bcy *a* : bcy, cy *p* : c *n*.
21	St.	Cu : A-Cu : Ci.	St-Cu.	10	10	9	9	9	10	j	j	l	k	l	k	d$_0$	d	...	...	...	d$_0$	cd *a* : c *p* : cd$_0$, c●^{0} *n*.
22	St-Cu:Ci-St:Ci.	Cu : Ci-Cu.	Cu : A-Cu : Ci.	9	9	6	6	3	9	l	l	l	l	l	l	...	...	...	...	...	...	c● early, bcy *a* : bcy *p* : bcy, c *n*.
23	St.	Nb : A-St.	Nb : A-St.	10	10	10	10	10	10	h	h	h	j	j	I	●	d	●^{0}	...	...	●	c●m$_0$, odm$_0$, c●^{0}m$_0$ *a* : c●^{0}m$_0$ *p* : c●m$_0$ *n*.
24	Cu : St-Cu.	Cu : St-Cu.	Cu : A-Cu : Ci.	8	5	6	5	2	2	l	l	l	l	m	m	...	...	...	...	...	...	bcy *a* : bcy, by () *p* : by (), b () *n*.
25	Ci.	Cu.	Cu.	1	1	3	3	1	0	m	l	l	l	l	l	...	...	...	...	...	...	b () ⌴, b (), by *a* : bcy, by *p* : by *n*.
26	St : A-St.	St : A-St.	St.	10	10	10	10	10	10	j	E	I	I	h	E	...	d$_0$	...	...	d$_0$	...	b ⌴ early, ofd$_0$, cm$_0$ *a* : od$_0$m$_0$ *p* : od$_0$m$_0$, ofi●^{0} *n*.
27	St.	St.	Cu : A-Cu (lent).	10	10	10	9	6	10	j	h	h	k	k	k	d$_0$	d$_0$	d$_0$	...	...	...	od$_0$m$_0$ *a* : od$_0$m$_0$, cjp *p* : cp●^{0} *n*.
28	Cu : St-Cu.	Cu.	Cu : St-Cu.	6	6	4	5	6	1	k	k	l	m	m	m	...	...	...	...	...	...	cp●^{0}, bcy *a* : bcy *p* : bcy *n*.
29	Cu : St-Cu.	Cu : St-Cu.	Cu : A-Cu : Ci.	8	9	8	8	6	1	l	l	l	l	m	m	...	...	...	...	...	...	cy *a* : cy *p* : b ⏝ *n*.
30	St-Cu.	Cu : St-Cu : Ci.	Nb : A-St.	9	10	9	9	10	10	l	m	m	l	h	k	...	...	...	...	●^{0}	●^{0}	b ⏝, b ⌴, c ⏝ *a* : c ●^{0}m$_0$ *p* : o●^{0}m$_0$*n*.
Mean Cloud Am'nt.				9·2	8·7	8·5	8·5	8·4	8·0													
	7h	13h	18h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	
	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the Weather of the Day.

259. Eskdalemuir. **July, 1931.**

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	St : A-St.	St-Cu : A-St.	Nb : A-St.	10	10	10	10	10	10	k	k	k	k	j	j	...	...	...	...	d$_0$	...	c, cid$_0$, c *a* : c, cid *p* : cd$_0$, ci ●, c *n*.
2	St.	St-Cu : A-St.	St-Cu.	10	10	10	10	9	9	F	m	k	k	m	m	d	...	p●^{0}	p●	...	...	ci ●, odm, cp ●^{0} *a* : cp ●, c*p* : cp ●^{0}, c *n*.
3	Nb : A-St.	St.	St.	10	10	10	10	10	10	I	h	G	G	F	G	d$_0$	d$_0$	d	d	●	●^{0}	c, od$_0$m$_0$ *a* : odm$_0$, odF, o ● m *p* : o ●^{0}m$_0$, o ● m$_0$ *n*.
4	St-Cu.	Cu : A-St.	Cu : Ci.	9	6	10	9	6	9	I	k	k	k	k	j	p●^{0}	...	...	...	...	...	o ● m$_0$, cp ● *a* : c, bc *p* : bc, c *n*.
5	Nb : A-St.	Cu : A-St : A-Cu.	St-Cu : A-St.	10	9	8	9	10	6	k	k	k	l	j	j	...	...	...	...	●	...	c, cp ●, c *a* : c, c ● *p* : c ●, bc *n*.
6	St-Cu : A-St.	Cu : A-Cu : Ci.	St-Cu : A-St.	9	9	9	9	10	10	j	k	j	j	I	k	...	...	...	...	...	●^{0}	c *a* : cT, cp ●^{2} *p* : cm$_0$, cp ●, c ●^{0}m$_0$ *n*.
7	St.	Cu.	Cu : A-Cu.	10	8	8	8	4	3	I	I	j	k	k	C	...	...	...	...	...	...	o ● m$_0$, early, cp ●, c *a* : c, bc *p* : bcT, bcF, c *n*.
8	St : St-Cu : A-St.	Nb : A-St.	Nb : A-St.	10	10	10	10	10	9	h	j	I	I	I	j	...	●	●	●	●	...	c, cp ●, c ● m$_0$ *a* : c ● m$_0$ *p* : c ● m$_0$, c *n*.
9	A-Cu : Ci : Ci-Cu.	St-Cu : A-Cu.	St-Cu : A-St.	5	7	7	8	10	9	k	j	j	j	j	I	...	...	...	...	...	...	c, bc *a* : bc, c *p* : c, cm$_0$ *n*.
10	St-Cu.	St : A-St.	St-Cu : A-St.	10	10	10	10	10	10	j	j	I	k	h	h	...	d$_0$	d$_0$	d$_0$	...	...	c, cid$_0$m$_0$ *a* : cid$_0$, cm$_0$ *p* : cm$_0$ *n*.
11	St-Cu.	St-Cu.	Cu : St-Cu.	9	9	8	6	6	8	j	j	k	k	l	l	...	...	...	...	...	...	cm$_0$, c *a* : cp ●^{0}, bc *p* : bc *n*.
12	Nb : A-St.	St-Cu.	Cu : St-Cu : Ci.	10	10	9	9	5	8	I	j	j	k	k	k	●	...	...	...	...	...	bc, c ● m$_0$, cp ● *a* : cp ●^{0}, bc *p* : bc, c *n*.
13	Cu : Ci.	Cu-Nb : Cu : A-Cu.	Cu : Ci.	8	7	9	8	7	7	k	k	l	l	l	k	...	...	...	...	...	...	c ⌓, bc *a* : cp ●, bc *p* : c, bc *n*.
14	St-Cu.	Cu : Cu-Nb.	Cu : A-Cu : Ci.	8	8	9	8	5	6	k	k	j	k	k	j	...	...	...	...	...	...	c ⌓, cp ●, c☈ ●^{2} ● q *a* : c ☈ ●, p ●^{0}, bc *p* : bc *n*.
15	St : A-St.	Cu : A-Cu : Ci.	Cu : Ci.	10	10	8	4	4	7	I	j	k	k	k	k	...	...	...	...	...	...	bc, ci ●, pd$_0$, c *a* : c, bc *p* : bc *n*.
16	St-Cu.	St-Cu.	St-Cu.	10	2	10	10	10	10	j	l	m	l	j	h	...	...	...	...	...	d	bc, c ⌓, b, c *a* : c, bc, cy *p* : c, cdm$_0$ *n*.
17	St-Cu : A-Cu : Ci.	Nb : St-Cu : A-St.	Nb : A-St.	7	8	10	10	10	10	k	k	k	k	I	G	...	...	...	...	●	d	cd, c ● m, p ●, c *a* : ci ● m$_0$ *p* : c ●, odm$_0$ *n*.
18	St-Cu.	St-Cu.	Cu : St-Cu.	10	10	10	10	6	8	k	k	k	k	k	k	...	...	...	p●	...	...	odm$_0$, cp ●, c *a* : cp ●, bc *p* : bc, c *n*.
19	St-Cu.	St-Cu : A-St.	St-Cu : A-St.	10	9	10	8	8	10	k	k	k	k	k	k	...	...	...	...	...	...	cpd$_0$, p ●^{0}, c *a* : cp ●, c *p* : cp ●, c *n*.
20	Cu : St-Cu.	Cu : St-Cu.	Cu : St-Cu.	9	9	9	8	8	1	l	l	l	l	l	l	...	...	...	...	...	...	cp ●, bcp ●, c *a* : c, cy *p* : c, bc, b *n*.
21	St : St-Cu : A-St.	St-Cu : A-St.	Nb.	10	7	10	10	10	10	l	l	l	l	k	I	i●^{0}	...	...	●^{0}	...	d$_0$	ci ●^{0}, cp ●, c *a* : c ●, ● d, c *p* : c, cd$_0$m$_0$ *n*.
22	St : A-Cu : Ci.	St.	St.	9	10	10	10	10	10	k	j	j	D	G	G	...	...	...	d$_0$	d	●	cd$_0$m, o *a* : od$_0$f, odm$_0$ *p* : od, o ● m$_0$ *n*.
23	St.	Cu : St-Cu.	St-Cu : A-Cu : Ci.	10	9	9	9	9	10	j	k	l	l	l	j	...	...	...	...	...	...	o ● m$_0$, c *a* : c *p* *and* *n*.
24	St-Cu : A-St : A-Cu.	St-Cu : A-St.	St : A-St.	9	10	9	8	10	10	l	l	l	l	k	k	...	...	...	...	...	...	c *a* : ci ●^{0}, c *p* : ci ●^{0}, c *n*.
25	Nb : A-St.	St-Cu : A-St : A-Cu.	Nb : A-St.	10	10	9	10	10	9	h	G	k	k	G	h	●^{0}	●^{0}	...	...	●^{0}	...	c ●^{0}m$_0$, ci ● gm$_0$, c *a* : c, c ●^{0}m$_0$ *p* : c ●^{0}m$_0$, cm$_0$ *n*.
26	Cu : St-Cu : A-St.	Cu : St-Cu.	Cu : St-Cu : A-Cu.	9	9	9	9	8	8	k	k	l	l	l	l	...	...	...	...	...	...	cm$_0$ c *a* : c *p* *and* *n*.
27	Nb : A-St.	St-Cu.	Nb : A-St.	10	9	10	9	10	10	k	l	l	l	j	j	●^{0}	...	...	...	●	●	cp ●, ci ●^{0}, c *a* : cp ●, p ●^{2}, ci ● *p* : ci ● *n*.
28	St : A-St.	St-Cu.	St-Cu : A-Cu.	10	10	9	9	9	9	j	j	k	k	l	l	d$_0$	d$_0$	...	...	...	...	c ●, id, cp ● *a* : cp ● ⥼, c *p* : c, c ⥼ *n*.
29	St.	St : St-Cu.	St.	10	10	10	10	10	10	j	j	j	h	G	j	...	...	...	●	d	d$_0$	c, o, cp ● *a* : cpd$_0$, o ● m$_0$, odm$_0$ *p* : odm$_0$, od$_0$ *n*.
30	St-Cu : A-St.	Cu : St-Cu.	St-Cu : A-Cu : Ci.	9	9	6	9	9	1	j	k	k	k	l	l	...	...	...	...	...	...	od$_0$ early, cp ●, bc *a* : bc, c *p* : c, b ⌓ *n*.
31	Cu : St-Cu : Ci.	St-Cu : A-St.	St-Cu : A-St.	8	9	10	10	10	10	j	k	l	l	l	k	...	...	...	...	...	...	c ⌓, cp ●^{0}, c *a* : c *p* : ci ●^{0}, c *n*.
Mean Cloud Am'nt.				9·3	8·8	9·2	8·9	8·5	8·3													

260. Eskdalemuir. **August, 1931.**

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	St-Cu : A-St.	Cu : Ci-St.	Cu : A-Cu.	10	9	9	8	9	9	k	j	j	j	j	h	...	...	...	...	...	...	c *a* *and* *p* : c, cm$_0$ *n*.
2	St.	St-Cu : A-St.	St-Cu.	10	10	10	10	10	10	h	I	j	j	j	j	...	...	...	id$_0$	...	...	om$_0$ ⌓, c *a* : cid$_0$ *p* : c *n*.
3	St-Cu.	Fr-Cu : Ci.	Fr-Cu.	10	9	1	1	1	9	j	j	k	l	j	j	...	...	...	...	...	...	c, b *a* : b *p* : b, c *n*.
4	St.	Fr-Cu.	A-Cu (lent).	10	9	1	1	1	1	h	I	j	j	k	j	...	...	...	...	...	...	om$_0$, cm$_0$, b *a* : b *p* *and* *n*.
5	St.	Ci.	Cu : A-Cu : Ci.	10	8	1	2	9	9	h	I	k	k	k	j	...	...	...	...	...	p●^{0}	om$_0$ ⌓, cm$_0$, b *a* : b, c *p* : c, cp ●^{0} *n*.
6	Cu : St-Cu.	Cu : Ci.	Cu : A-Cu : Ci.	9	8	3	6	6	7	k	j	k	k	k	j	...	...	...	...	...	...	c, bcy *a* : bcy *p* : bc *n*.
7	St : St-Cu.	Cu : Ci-Cu : Ci.	Cu : A-St : Ci-St.	10	10	9	9	9	10	k	I	k	l	l	k	...	d$_0$	...	...	...	...	cid$_0$m$_0$, c *a* : c *p* *and* *n*.
8	St-Cu : A-St.	Nb : A-St.	St-Cu : A-Cu : Ci.	10	6	10	8	9	1	l	m	j	l	k	l	...	...	●	...	...	...	c, bc (), cp ● *a* : cp ●, c *p* : c, bc, b *n*.
9	A-Cu (lent).	Cu : A-Cu : Ci.	Cu : A-Cu : Ci.	2	2	8	8	7	9	m	m	l	k	l	k	...	...	...	...	...	...	b (), cy *a* : cy, bc *p* : bc, c *n*.
10	Nb : A-St.	Cu : St-Cu.	Cu : A-Cu.	10	8	9	10	2	2	I	l	l	k	l	k	●	...	...	...	...	...	c ● m$_0$, c *a* : c, b *p* : b, b ⌓ *n*.
11	St-Cu : A-Cu : Ci.	St-Cu : Ci-St.	St-Cu : A-St : A-Cu.	9	6	9	10	9	10	l	m	k	k	k	k	...	...	...	...	...	...	bc, c, cd$_0$ *a* : cid$_0$ c *p* : ci ●^{0}, c *n*.
12	St-Cu : A-Cu.	St-Cu : A-St.	St-Cu : A-Cu.	9	10	10	5	9	7	l	k	j	k	k	k	...	...	...	...	...	...	c, cp ●^{0} *a* : c, bc *p* : c, bc *n*.
13	A-St.	St-Cu.	St : St-Cu.	7	10	10	10	10	10	j	I	k	h	h	h	...	...	...	...	...	...	c, cd$_0$m$_0$, c ● m$_0$, c *a* : cm$_0$ *p* *and* *n*.
14	St-Cu : A-Cu.	Cu : Ci.	Cu : A-Cu : Ci.	9	7	5	6	8	10	l	k	l	k	l	k	...	...	...	...	...	...	c, bcy *a* : bcy, c *p* : c *n*.
15	St-Cu : A-St.	Cu : St-Cu.	Cu : A-Cu : Ci.	10	10	9	6	6	8	k	l	l	m	l	k	...	...	...	...	...	...	ci ●^{0}, c *a* : c, bc *p* : bc, c *n*.
16	St : A-St.	Cu : A-Cu.	Cu-Nb : Ci.	10	10	6	7	9	9	j	h	k	k	k	j	...	●	...	...	...	...	c, o ● m$_0$, bc *a* : bc, cT jp, c *p* : c *n*.
17	Nb : A-St.	St-Cu : A-St.	Cu : Nb : St-Cu.	10	9	9	9	9	10	I	j	j	k	k	k	●^{0}	●	●^{0}	...	...	...	c ● m$_0$, ci ●^{0} *a* : cp ● *p* : cjp, c *n*.
18	Cu : St-Cu.	Cu.	Cu.	9	8	3	5	6	6	k	k	l	m	m	k	...	...	...	...	...	...	c, bcy *a* : bcy () *p* : bc (), bc *n*.
19	Cu : A-St : A-Cu.	St-Cu : A-St.	St : A-St.	9	10	10	10	10	10	k	k	I	I	j	F	...	...	...	●^{0}	...	...	c, c ● m$_0$ *a* : c ●^{0}m$_0$, c *p* : c, om *n*.
20	St : A-St.	St-Cu : A-Cu.	St-Cu : A-St.	10	10	9	9	10	9	j	j	j	k	k	j	●^{0}	...	...	...	...	...	c ●, ci ●^{0}, c *a* : c ●, c *p* : c *n*.
21	St-Cu : A-St.	St-Cu : A-St.	Cu : St-Cu.	10	10	10	7	9	10	m	m	j	k	l	k	...	●^{0}	...	...	...	p●^{0}	c (), ci ●^{0} *a* : c, bc *p* : bc, cp ●^{0} *n*.
22	St-Cu.	Cu : St-Cu.	St-Cu.	9	7	9	6	9	1	k	l	l	l	l	k	...	...	...	...	...	...	bc, cy *a* : cy, bcy *p* : c, b ⌓ *n*.
23	St-Cu.	Cu : St-Cu.	Cu : St-Cu.	9	6	8	8	9	6	l	m	m	m	m	l	...	...	...	...	...	...	b ⌓ early, bc ⊔, cy () *a* : cy (), c () *p* : c (), bc *n*.
24	St-Cu.	Cu : St-Cu.	St-Cu.	1	8	9	9	9	9	l	l	l	l	l	l	...	...	...	...	...	...	b ⌓, c *a* : c *p* *and* *n*.
25	St-Cu.	St-Cu.	Cu : St-Cu.	8	8	10	9	8	5	k	k	l	l	l	l	...	...	...	...	...	...	cp ●^{0} early, bc, c *a* : c, cy *p* : c, bc *n*.
26	Cu.	Cu.	Cu.	2	2	7	3	1	0	l	l	l	m	l	l	...	...	...	...	...	...	b ⌓, bcy *a* : bcy, b *p* : b, b ⌓ *n*.
27	A-Cu.	Cu : Ci-St.	A-Cu : A-St.	2	4	4	8	8	9	j	j	j	l	l	j	...	...	...	...	...	...	b ⌓ early, b , bcy *a* : bcy, c *p* : c *n*.
28	Cu : A-Cu : Ci.	Ci : Ci-St.	Cu : Ci-St.	9	9	6	7	7	9	l	l	l	j	j	j	...	...	...	...	...	...	c ⌓, bcy *a* : bcy, bc *p* : bc, c *n*.
29	St-Cu : Ci.	Cu : Ci.	Cu : Ci.	8	8	5	5	7	7	k	k	k	l	l	I	...	...	...	...	...	...	c ⌓, bc *a* : bc *p* : bc, bcm$_0$ *n*.
30	St-Cu : Ci.	Cu : Ci.	St-Cu.	5	5	5	4	3	8	k	k	k	j	j	I	...	...	...	...	...	...	bc ⌓, bc *a* : bc *p* : bc, cm$_0$ *n*.
31	St-Cu.	—	—	9	1	0	0	0	0	k	k	k	l	l	k	...	...	...	...	...	...	c, b *a* : by, b *p* : b, b ⌓ *n*.
Mean Cloud Am'nt.				8·2	7·6	6·9	6·6	7·1	7·1													
	7h	13h	18h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						

261. Eskdalemuir. **September, 1931.**

Day.	Cloud Forms. 7h	13h	18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	Ci.	Cu : Ci-St.	A-St.	1	1	9	10	10	10	h	j	j	k	j	h	...	...	...	...	●^{0}	●	b ⌓ early, b ⊔, cy *a* : cy, c●^{0} *p* : c●^{0}, c●m$_0$ *n*.
2	St.	St-Cu.	St.	10	10	10	10	10	10	I	j	j	I	I	h	d$_0$	...	...	...	d$_0$	d$_0$	c●, od$_0$m$_0$, c *a* : cid$_0$, odm$_0$ *p* : od$_0$m$_0$ *n*.
3	St : A-St : Ci-St.	St-Cu : A-St.	Nb : A-St.	9	9	10	10	10	10	I	j	j	j	j	j	...	...	p●^{0}	●	●^{0}	...	od$_0$m$_0$ early, cm$_0$, cp●^{0} *a* : cp●^{0}, ci●^{0} *p* : ci●^{0}, c *n*.
4	St-Cu : Ci-St.	Cu : A-Cu : Ci.	Fr-Cu : St-Cu.	9	9	8	8	8	8	k	k	k	l	l	k	...	...	...	...	...	...	c●^{0}, cy *a* : cy, c *p* : c *n*.
5	Cu : A-Cu.	Cu : A-Cu : Ci.	Cu : A-Cu : Ci.	8	6	8	9	8	1	l	l	l	l	l	l	...	...	...	...	...	...	c● early, c, bc *a* : cp●^{2}, ci●^{0}, c *p* : c, b ⌓ *n*.
6	Cu : A-Cu (lent).	Cu : A-Cu : Ci.	Cu-Nb:A-Cu:Ci.	1	1	8	10	8	9	l	l	l	l	l	l	...	...	...	...	...	...	b ⊔ *a* : cp●^{0}, ci●^{0}, c⊤ *p* : c●^{0}, c *n*.
7	St-Cu.	Cu : St-Cu : Ci.	A-Cu : Ci.	9	9	8	6	6	1	j	k	k	l	l	k	...	...	...	...	...	...	bc, c ⌓, cy *a* : cy, bcy *p* : bc, b ⌓ *n*.
8	St-Cu : A-Cu : Ci.	Cu : Nb : Ci.	Cu : Ci-Cu : Ci.	8	9	8	9	8	4	l	k	l	l	l	l	...	...	...	p●^{0}	...	...	b ⊔, cp●^{0}, c *a* : cp●^{0}, c *p* : c, bc *n*.
9	St-Cu : A-Cu.	Cu : St-Cu.	Cu : St-Cu.	9	9	8	9	9	4	l	l	k	l	l	j	...	...	...	...	...	...	bc, c *a* : c *p* : c, bc ⌓ *n*.
10	St-Cu : Ci.	Cu:A-Cu:Ci-St.	St-Cu.	6	5	9	9	8	2	k	k	k	j	l	j	...	...	...	...	...	...	bc ⌓, bcy, c *a* : cp●, c *p* : c, bc, b *n*.
11	A-Cu.	Nb : A-St.	St-Cu : Ci-St.	1	2	10	10	9	10	l	l	k	I	j	j	...	...	●	●	...	...	b ⊔, c, c● *a* : ci●, c ⊕ *p* : c *n*.
12	St : A-St.	St-Cu.	Cu.	10	10	10	6	2	0	k	k	k	k	l	l	...	d$_0$	...	...	...	...	c●^{0}, cid$_0$ c *a* : c, bcp●^{0}, b *p* : b *n*.
13	St-Cu.	St-Cu:A-St:A-Cu.	St-Cu : A-Cu.	1	4	9	9	9	10	m	m	k	l	l	k	...	...	...	...	...	...	b ⊔, bc, c *a* : c *p and n*.
14	St.	St.	St.	10	9	10	10	10	10	D	j	I	j	h	E	...	...	...	...	...	...	c, of, om$_0$ *a* : om$_0$, cid$_0$ *p* : om$_0$, of *n*.
15	St:St-Cu:A-Cu.	St-Cu.	St-Cu.	6	9	10	10	9	9	l	l	k	k	k	k	...	...	...	...	...	...	of, bc, c *a* : c *p and n*.
16	St-Cu.	St-Cu : A-St.	St.	9	10	10	10	10	10	m	l	l	k	h	E	...	...	...	...	●^{0}	d$_0$	c, *a* : ci●^{0}, o●^{0}m$_0$ *p* : o●^{0}m$_0$, od$_0$f *n*.
17	St.	St-Cu.	St-Cu : Ci.	10	10	9	10	9	1	h	h	k	k	k	k	...	...	...	...	...	...	oi●^{0}, m$_0$, om$_0$, c *a* : c *p* : c, b *n*.
18	St : Gi.	St-Cu.	St-Cu.	1	5	8	9	9	9	k	k	k	k	k	j	...	...	...	...	...	...	b ⌓, b ⊔ c *a* : c *p and n*.
19	St-Cu.	St-Cu.	Ci.	9	10	9	9	1	1	l	l	k	k	m	k	...	...	...	...	...	...	c *a* : c, b *p* : b, b ⌓ *n*.
20	A-Cu.	Cu : Ci.	Cu : A-Cu : Ci.	2	8	7	6	6	5	j	l	l	l	l	l	...	...	...	...	...	...	b ⌓, b ⊔, b, bcy *a* : bcy, bc *p* : bc *n*.
21	Cu : A-Cu.	Cu : Ci-St.	St-Cu : Ci.	2	6	10	8	8	5	l	l	k	k	k	k	...	...	...	...	...	...	b ⌓, bc, cy ⊕ *a* : cy ⊕, c *p* : c, bc *n*.
22	St-Cu.	Cu : St-Cu.	St-Cu.	9	10	8	9	9	4	l	l	k	k	I	h	...	...	...	...	...	...	bc, c *a* : c⊤, cz$_0$ *p* : cz$_0$, bcm$_0$ *n*.
23	St-Cu.	St-Cu.	Cu : A-Cu : Ci.	9	10	10	6	4	5	I	j	k	k	l	k	...	...	...	...	...	...	cm$_0$, c *a* : c, bc *p* : bc *n*.
24	St-Cu.	St-Cu.	St-Cu:A-Cu:Ci.	9	10	9	1	9	10	j	j	j	k	j	j	...	...	...	...	...	...	c *a* : c, b *p* : c *n*.
25	St-Cu.	Cu : St-Cu.	St-Cu.	10	9	9	9	8	0	k	l	l	k	k	I	...	...	...	...	...	...	c *a* : c, cy *p* : c, bm$_0$ ⌓ *n*.
26	St.	St-Cu.	St-Cu.	1	9	9	10	10	9	h	I	I	I	I	i	...	...	...	...	...	...	bf ⌓, c ⌓ m$_0$ *a* : cm$_0$ *p and n*.
27	St-Cu.	St-Cu.	St-Cu.	8	10	10	9	9	9	j	j	j	j	j	j	...	...	...	...	...	...	c ⌓, c *a* : c *p and n*.
28	St-Cu : Ci.	St-Cu : A-St.	St-Cu : A-St.	9	10	10	9	10	9	k	l	k	k	j	i	...	...	...	...	...	...	c *a and p* : c, ci●^{0}m$_0$ *n*.
29	St.	St-Cu.	St-Cu.	10	9	10	10	9	10	h	I	j	k	j	j	...	...	...	...	...	...	ci●^{0}m$_0$, early, om$_0$ cm$_0$ *a* : c *p and n*.
30	Nb : A-St.	St : A-St.	Nb : A-St.	10	10	10	10	10	10	I	I	I	I	I	i	●^{0}	●^{0}	d$_0$	●	...	...	c, c●^{0}m$_0$, cid$_0$m$_0$ *a* : c●m$_0$, cd$_0$m$_0$ *p* : cm$_0$ *n*.
Mean Cloud Am'nt.				6·9	7·9	9·1	8·7	8·2	6·5													

262. Eskdalemuir. **October, 1931.**

Day.	Cloud Forms. 7h	13h	18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	St-Cu.	Nb : A-St.	St.	9	9	10	10	10	10	I	j	I	h	G	g	...	...	●^{0}	●	d	d	cm$_0$, ci●^{0}m$_0$ *a* : c●m$_0$, odm$_0$ *p* : odm$_0$ *n*.
2	Nb : A-St.	Cu : St-Cu.	Cu : Nb.	10	10	6	8	8	9	h	j	k	k	k	j	d	d$_0$	...	...	...	p●	cdm$_0$ bc *a* : cp●^{2}, cp●, c *p* : cp● *n*.
3	Cu : A-Cu : Ci.	Cu:St-Cu:A-Cu.	St-Cu:A-St:A-Cu.	7	9	7	6	9	9	k	l	k	k	j	j	...	...	...	...	...	...	bc, c, bc *a* : bc, c *p* : c *n*.
4	St.	Cu : St-Cu.	St.	9	9	5	9	10	10	I	j	j	k	G	g	...	...	...	...	d	●	cm$_0$, bc *a* : bc, c, odm$_0$ *p* : odm$_0$, o●^{2}m$_0$ *n*.
5	Nb.	St.	St.	10	10	10	10	10	10	h	G	I	h	G	g	●^{0}	d	d$_0$	d$_0$	d	d	c●^{0}m$_0$, oid$_0$m$_0$ *a* : od$_0$m$_0$, odm$_0$ *p* : odm$_0$ *n*.
6	St.	St.	St : A-St.	10	10	10	10	10	10	I	h	h	I	I	I	d$_0$	d	d	d$_0$	●^{0}	●	odm$_0$ *a* : odm$_0$, c●^{0}m$_0$ *p* : c●i●^{2}m$_0$ *n*.
7	St.	Cu : Cu-Nb.	Cu : Cu-Nb.	5	7	7	7	6	7	I	k	k	k	k	j	...	...	...	p●	...	p●	bcm$_0$, bcjp *a* : bcp●p●^{2} *p and n*.
8	St-Cu.	Nb : A-St.	St : A-St.	7	8	10	9	10	10	k	j	I	j	I	i	...	...	...	...	...	●	bcp●, cidm *a* : cm$_0$, cp● *p* : c●m$_0$ *n*.
9	St-Cu.	Nb : A-St.	St : A-St.	10	10	10	10	10	6	I	I	I	I	I	j	...	●	●	●	i●	...	c●m$_0$ *a* : c●, c●^{2}m$_0$ *p* : ci●m$_0$, bc *n*.
10	St : St-Cu.	Cu : Ci.	St-Cu:A-Cu:Ci.	9	3	9	6	6	6	F	k	l	l	l	k	...	...	...	...	...	...	cm, bc, c *a* : c, bc *p* : bc *n*.
11	St-Cu.	St.	St-Cu.	10	10	10	10	9	1	j	j	G	h	l	k	...	...	d	...	...	...	c, odm$_0$ *a* : odm$_0$, c *p* : c, b ⌓ *n*.
12	St-Cu : Nb.	St-Cu : A-St.	St-Cu : A-St.	10	10	10	10	10	10	j	j	j	j	j	I	...	...	...	...	...	●^{0}	b ⌓, c● early, c *a* : ci●^{0}, c *p* : c, c●m$_0$ *n*.
13	A-Cu (lent).	Cu.	Cu : Ci.	1	1	4	6	5	9	m	m	k	l	l	k	...	...	...	...	...	...	c, b ⌓, bcy *a* : bcy, bc *p* : bc, c *n*.
14	St : St-Cu : Ci.	St-Cu.	St-Cu : A-Cu.	6	8	9	5	3	0	m	m	l	l	m	k	...	...	...	...	...	...	bc, c *a* : c, bc *p* : bc, b ⌓ *n*.
15	—	Cu.	—	0	0	1	1	0	0	B	D	k	k	k	h	...	...	...	...	...	...	b ⊔ F, b ⌓ F, b *a* : b *p* : b ⌓ iF *n*.
16	—	—	—	0	0	0	0	0	0	D	F	h	I	G	h	...	...	...	...	...	...	b ⊔ f, b ⌓, bz$_0$ *a* : bz$_0$y, bm$_0$ *p* : bm$_0$ ⌓ *n*.
17	Cu.	—	St : St-Cu.	3	3	0	7	10	10	j	I	F	F	G	G	...	...	...	...	...	...	bcm$_0$ ⌓, bz, *a* : bcz, cm$_0$ *p* : cm$_0$ om$_0$ *n*.
18	St-Cu.	St : A-St.	St : A-St.	9	10	10	10	10	10	I	I	I	I	I	j	...	...	id$_0$	id$_0$	...	...	om$_0$, cid$_0$m$_0$ *a* : cid$_0$m$_0$, cm$_0$ *p* : cm$_0$, c ⌓ *n*.
19	St-Cu.	St-Cu : A-St.	St-Cu.	8	9	10	9	10	9	j	I	I	j	I	i	...	...	...	...	...	...	c ⌓, cm$_0$ *a* : cm$_0$ c *p* : cm$_0$ *n*.
20	Cu:St-Cu:A-Cu.	Cu.	Ci.	1	0	2	2	1	2	l	l	l	m	l	l	...	...	...	...	...	...	c● early, bc, by *a* : by (), b *p* : b *n*.
21	—	Cu.	A-Cu.	0	0	3	1	1	2	l	l	l	k	k	k	...	...	...	...	...	...	b ⊔, bcy, *a* : bcy, b *p* : b, b ⊔ *n*.
22	A-Cu.	Cu : St-Cu.	—	1	2	6	1	0	0	k	k	k	k	j	k	...	...	...	...	...	...	b ⊔, bcy, *a* : bcy, by *p* : b, b ⊔ *n*.
23	St : A-Cu : Ci.	Cu : St-Cu.	St-Cu.	2	3	9	9	9	8	j	h	k	j	j	h	...	...	...	...	...	...	b ⊔, bc ⊔ m$_0$ *a* : c *p* : c, c●^{0}, cm$_0$ *n*.
24	Cu : Cu-Nb : Ci.	Cu.	St-Cu.	3	1	3	1	1	0	l	l	l	l	l	l	...	...	...	...	...	...	cp✱ early, b, bcy *a* : bcy, by, b *p* : b *n*.
25	—	—	—	0	0	0	0	0	0	l	l	l	l	k	k	...	...	...	...	...	...	b ⊔, b, by *a* : by, b ⊔ *p* : b ⊔ *n*.
26	St-Cu : Ci.	Cu : Ci : Ci-Cu.	St-Cu : Ci.	9	1	6	6	6	6	j	j	j	j	j	j	...	...	...	...	...	...	c ⊔, b ⊔, bcy *a* : bcy, bc *p* : bc *n*.
27	St-Cu.	St : A-St.	Nb : A-St.	9	10	10	10	10	9	m	h	h	j	h	h	...	d$_0$	d$_0$	...	●	...	c, c●^{0}, cid$_0$m$_0$ *a* : cid$_0$m$_0$, c●m$_0$ *p* : ci●m$_0$, cm$_0$ *n*.
28	Cu:St-Cu:A-Cu.	Cu.	St-Cu : Ci.	3	4	4	3	1	6	m	l	l	k	k	j	...	...	...	...	...	...	ci● early, b, bcy *a* : bcy, b *p* : b, bc ⊔ *n*.
29	Ci : Ci-Cu.	Cu : A-St.	St.	9	10	10	10	10	10	k	k	k	h	h	h	...	...	...	●	✱	...	c ⊔, c *a* : c, o●, o✱m$_0$ *p* : o✱m$_0$, cm$_0$ *n*.
30	Cu : A-Cu.	Ci.	A-Cu.	1	1	1	1	1	9	l	l	l	l	k	k	...	...	...	...	...	...	b, by *a* : by, bc, b *p* : b, bc, c *n*.
31	St-Cu.	St.	St.	10	10	10	10	10	10	j	I	h	F	F	g	...	...	d$_0$	d$_0$	d$_0$	d$_0$	cz$_0$, od$_0$m$_0$ *a* : od$_0$m$_0$ *p* : od$_0$m$_0$ *n*.
Mean Cloud Am'nt.				5·8	5·7	6·5	6·4	6·3	6·4													
	7h	13h	18h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						

263. Eskdalemuir. November, 1931.

Day.	Cloud Forms. 7h	13h	18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	St : St-Cu : Ci.	St-Cu.	St-Cu.	9	10	10	10	10	10	j	i	k	j	i	i	…	…	…	d$_0$	…	…	c, cid$_0$m$_0$ *a* : cd$_0$, cm$_0$ *p* : cm$_0$ *n*.
2	St-Cu : A-St.	St.	Nb : A-St.	10	9	10	10	10	10	j	j	k	h	h	h	…	…	…	●	d$_0$	d$_0$	c, o *a* : o, c●m$_0$, cd$_0$m$_0$ *p* : cid$_0$m$_0$ *n*.
3	Nb.	St.	St-Cu.	10	10	10	10	9	10	I	G	I	h	j	g	●	●	●	●^{2}	…	…	cdm$_0$ ⫽ early, o●i●^{2}m$_0$ ⫽ *a* : o●^{2}q●m$_0$, c *p* : c, bc, [o●m$_0$ *n*.
4	St.	Cu.	Cu.	10	10	6	8	5	6	I	j	k	k	k	k	d$_0$	●	…	…	…	…	o●q early, oid$_0$m$_0$, ci● ⫽, bc *a* : bc, cp●^{0} *p* : bc *n*.
5	St-Cu.	Cu-Nb : Nb.	St-Cu.	9	10	9	9	3	9	k	h	k	k	k	j	…	●	p●	…	…	…	c, c●m$_0$, cp●▲ *a* : cp●▲, bc *p* : bc, c *n*.
6	St-Cu.	Cu : Ci.	St-Cu.	6	6	5	6	10	9	k	k	I	I	I	i	…	…	…	…	…	…	c, bc ⌓, bcz$_0$ *a* : bcz$_0$, cz$_0$ *p* : ci●^{0}m$_0$ *n*.
7	St.	Nb : A-St.	Nb : A-St.	10	10	10	10	10	10	g	I	h	I	h	h	●^{0}	●^{0}	●	●^{0}	●^{0}	…	o●^{0}, ci●^{0}m$_0$ *a* : c●m$_0$ *p* : ci●m$_0$ *n*.
8	St-Cu : A-St.	St-Cu : A-Cu : Ci.	St.	10	10	9	10	10	10	I	I	j	j	i	i	…	d$_0$	…	●^{0}	●	…	ci●^{0}m$_0$, oid$_0$m$_0$, c *a* : ci●^{0}, o●m$_0$ *p* : o●m$_0$, om$_0$ *n*.
9	St.	St.	Nb : A-St.	10	10	10	10	10	10	h	I	I	h	h	h	…	●^{0}	●	●	●	…	om$_0$, c●^{0}, o●m$_0$g *a* : o●, c●mg *p* : c●m$_0$, om$_0$ *n*.
10	St : St-Cu.	Nb : A-St.	St-Cu.	9	9	10	10	9	10	j	j	j	j	j	h	…	p●	●^{0}	●^{0}	…	●^{0}	c, cp●^{0} ci●^{0} *a* : ci●^{0}, c *p* : c, c●^{0}m$_0$ *n*.
11	St.	Cu : St-Cu.	St-Cu.	10	9	9	9	10	5	I	I	j	j	j	j	…	d$_0$	…	p●^{0}	…	…	om$_0$, cid$_0$m$_0$, c *a* : cp●^{0}, c *p* : c, bc *n*.
12	St-Cu : Ci.	Cu : St-Cu.	St-Cu : A-Cu.	8	1	9	5	6	2	j	j	j	j	j	j	…	…	…	…	…	…	c●^{0}, b, c *a* : c, bc *p* : bc, b *n*.
13	St-Cu.	Cu : St-Cu : Ci.	St-Cu : Ci.	8	9	9	6	1	9	k	D	j	k	k	k	…	…	…	…	…	…	c, bf, cf, c *a* : bc, b *p* : b, c *n*.
14	Nb : A-St.	Nb : A-St.	Nb : A-St.	10	10	10	10	10	10	h	I	I	h	h	h	●	●	●	●	●	●	c early, c●m$_0$ *a*, *p and n*.
15	St-Cu.	St-Cu : Ci.	St-Cu.	10	8	9	10	10	10	k	k	k	I	h	h	…	…	…	…	…	…	c●m$_0$ early, bc, c *a* : c, cm$_0$ *p* : cm$_0$ *n*.
16	St-Cu.	St-Cu.	St-Cu : Ci-St.	1	1	9	9	9	1	F	I	j	j	j	h	…	…	…	…	…	…	b ⊔ m$_0$, c *a* : c *p* : c, b *n*.
17	St-Cu.	Ci : Ci-Cu.	A-St.	9	10	9	10	10	10	j	j	j	j	j	j	…	…	…	…	…	…	b ⊔ early, c *a* : c, o *p* : o, c *n*.
18	Nb.	Nb.	Nb.	10	10	10	10	10	10	i	h	h	h	h	g	●	●	●	●	●	●^{0}	c●m$_0$ *a and p* : o●, o●^{0}m$_0$ *n*.
19	St.	St-Cu : A-Cu : Ci.	A-Cu : Ci-St.	10	6	5	9	8	10	C	D	j	j	i	h	…	…	…	…	…	…	of, bcF *a* : bcp●^{0}, cm$_0$ *p* : cm$_0$ *n*.
20	St-Cu : A-Cu.	St : St-Cu.	Nb : A-St.	9	3	7	9	10	8	j	j	j	h	h	k	…	…	…	…	●	…	cp●^{0} early, c, bc *a* : bc, c●m$_0$ *p* : c●m$_0$, c *n*.
21	St-Cu.	Cu.	St-Cu.	9	3	6	3	1	3	k	k	k	k	k	k	…	…	…	…	…	…	cp● early, b, bc *a* : bcjp, b *p* : b, bc ⊔ *n*.
22	St-Cu.	St : A-St.	A-St.	9	9	10	10	10	10	j	I	j	j	j	j	…	…	…	…	…	…	b ⊔, c ⊔ *a* : c *p and n*.
23	Nb : A-St.	Nb : A-St.	Nb : A-St.	10	10	10	10	10	10	h	I	I	h	h	h	●^{0}	●	●	●	●	●	c●^{0}●m$_0$ *a* : c●m$_0$ *p and n*.
24	St-Cu.	St-Cu : A-Cu : Ci.	St.	1	1	8	10	10	10	l	l	l	l	h	h	…	…	…	…	d$_0$	●	c●^{0}m$_0$ early, b, c *a* : c, od$_0$m$_0$ *p* : od$_0$, o●m$_0$ *n*.
25	Cu : St-Cu.	Cu : St-Cu : Ci.	Nb : A-St.	6	6	9	10	10	10	j	I	I	I	I	h	…	…	…	…	●	…	c●^{2} early, bcp●, cm$_0$ *a* : cp●^{0}, c●m$_0$ *p* : ci●^{0}m$_0$ *n*.
26	St.	St : St-Cu : A-St.	St.	10	10	9	10	10	10	h	I	I	I	h	h	d$_0$	●^{0}	…	●^{0}	●	…	od$_0$, c●^{0}m$_0$ *a* : ci●i●^{2}m$_0$ *p* : c●m$_0$ *n*.
27	Cu : St-Cu.	Nb : A-St.	Nb : A-St.	8	8	10	10	10	9	j	j	I	j	i	h	…	…	●	…	●^{0}	…	cp●^{0} early, c, c●m$_0$ *a* : c✸, c●^{0}m$_0$ *p* : c●^{0}, cm$_0$ *n*.
28	St : A-St.	St-Cu.	St-Cu.	10	7	9	10	10	3	h	I	j	j	j	j	…	…	…	…	…	…	c, bc *a* : c *p* : c, bc *n*.
29	St : A-St.	St.	St.	10	10	10	10	10	10	j	h	G	F	d	d	●^{0}	●^{0}	d$_0$	d$_0$	…	…	c●^{0}, od$_0$m$_0$ *a* : odm$_0$, of *p* : of *n*.
30	St : A-Cu.	—	St.	8	5	0	0	10	10	d	l	k	k	d	c	…	…	…	…	d$_0$	d$_0$	cf, bc *a* : b, ofd$_0$ *p* : ofd$_0$ *n*.
Mean Cloud Am'nt.				8·6	7·7	8·5	8·8	8·7	8·5													

264. Eskdalemuir. December, 1931.

Day.	Cloud Forms. 7h	13h	18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	St.	St.	St.	10	10	10	10	10	10	C	D	G	F	F	f	…	…	…	d$_0$	d$_0$	d	oF, om$_0$ *a* : od$_0$m *p* : od$_0$, odm *n*.
2	St : St-Cu.	St.	St.	10	10	10	10	10	10	h	k	I	I	h	h	…	…	…	…	d$_0$	●	odm$_0$, c *a* : om$_0$, cm *p* : od$_0$, o●m$_0$ *n*.
3	Nb : A-St.	Nb : A-St.	St-Cu : Nb.	10	10	10	9	10	10	h	k	h	I	h	h	●^{2}	…	●	●^{0}	●^{0}	…	c●^{2}, ✸^{2}▲ *a* : c●^{0}, i● *p* : ci●^{0}m$_0$ *n*.
4	St-Cu.	Nb : A-St.	Nb : A-St.	9	9	10	9	10	5	j	k	I	I	h	j	…	…	●	●^{0}	●	…	c, c●m$_0$ *a* : c●, ●^{0}m$_0$ *p* : ci●m$_0$, bc *n*.
5	St-Cu.	Nb : A-St.	St-Cu : A-St.	3	10	10	10	10	10	k	k	h	I	h	h	…	…	●	●	…	…	bc, c●m$_0$ *a* : c ⚡ ●^{2} *p* : cm$_0$ *n*.
6	St : Nb : A-St.	Cu : Ci.	—	10	9	8	2	0	0	I	k	m	m	k	k	…	…	…	…	…	…	✳ early, cm$_0$ c *a* : c, b ⊔ *p* : b ⊔ *n*.
7	St-Cu : A-Cu.	Nb : A-St.	St-Cu.	3	6	10	10	10	10	k	l	j	j	j	j	…	…	…	…	…	…	bc ⊔, cid$_0$m$_0$ *a* : c *p* : c, c ● *n*.
8	St-Cu.	Cu : Ci : Ci-St.	St-Cu.	3	8	6	6	1	3	k	k	j	k	k	k	…	…	…	…	…	…	c● early, bc, cp● *a* : bc, b *p* : b, bc *n*.
9	Fr-Cu : St-Cu.	St-Cu : Ci-Cu : Ci.	St-Cu.	8	9	9	10	10	9	k	l	j	k	k	j	…	…	…	…	…	…	c, cp● *a* : cp●^{0} *p* : bc, cp●^{0} *n*.
10	St : A-Cu : A-St.	St-Cu : A-St.	St-Cu.	10	9	9	10	6	6	k	l	l	l	l	l	…	…	…	…	…	…	c●q, c *a* : c, bc *p* : bc *n*.
11	St-Cu.	St-Cu.	St-Cu.	9	9	10	10	10	8	l	l	k	j	j	k	…	…	…	…	…	…	c *a* : c, cid$_0$ *p* : cid$_0$, c *n*.
12	St-Cu.	St-Cu.	St-Cu.	1	1	9	9	9	10	k	k	k	k	k	k	…	…	…	…	…	…	bq, c *a* : c *p and n*.
13	St-Cu.	St-Cu.	St-Cu.	10	10	10	10	10	10	k	j	k	k	j	h	…	…	…	…	…	d$_0$	c *a and p* : c, od$_0$m$_0$ *n*.
14	St.	St-Cu.	St-Cu.	10	10	10	9	10	10	h	I	j	j	j	j	d$_0$	d$_0$	…	…	d$_0$	d$_0$	oid$_0$m$_0$, c *a* : cid$_0$ *p and n*.
15	St.	St-Cu.	St-Cu : Ci.	10	10	9	5	6	6	h	l	l	k	k	k	d$_0$	…	…	…	…	…	od$_0$, c *a* : c, bc *p* : bc ⌓ *n*.
16	A-St.	A-St.	A-St.	10	10	10	10	10	10	k	m	l	l	k	j	…	…	…	✳^{0}	…	…	c ⊔, c *a* : ci✳^{0}, c *p* : ci✳^{0} *n*.
17	St-Cu.	St-Cu.	St-Cu.	4	10	6	8	9	4	k	l	j	j	j	j	…	…	…	…	…	…	bc, c *a* : c, bc *p* : c, bc ⊔ *n*.
18	—	St-Cu.	St-Cu.	0	2	10	10	10	10	I	h	G	I	h	g	…	…	…	…	…	d$_0$	b ⊔ m$_0$, c *a* : cm$_0$ *p* : c, cd$_0$m$_0$ *n*.
19	St.	St.	St.	10	10	10	10	10	10	F	F	g	G	G	G	d$_0$	d$_0$	…	…	…	…	od$_0$m$_0$ *a* : om$_0$ *p and n*.
20	St.	St.	St : St-Cu.	10	10	10	10	8	8	C	B	C	D	E	j	…	…	…	…	…	…	oFe *a* : oFe, cfe *p* : cfe, c *n*.
21	St.	St-Cu.	St.	10	10	9	5	10	10	E	I	j	j	I	F	d$_0$	…	…	…	…	…	od$_0$f, id, c *a* : c, bc, om$_0$ *p* : om *n*.
22	St.	St-Cu.	St.	10	10	10	10	10	10	F	F	I	I	G	G	…	…	…	…	…	…	om$_0$ *a* : cm$_0$, om$_0$ *p* : om$_0$ *n*.
23	Nb : A-St.	St.	Nb.	10	10	10	10	10	10	G	h	h	I	h	h	●	●	●^{0}	●^{0}	●	d	o●, ●^{0}m *a* : o●^{0}, ●m$_0$ *p* : o●dm$_0$ *n*.
24	Nb.	St.	St.	10	10	10	10	10	9	g	D	E	F	j	j	d$_0$	d$_0$	d$_0$	…	●^{0}	…	od$_0$f *a* : od$_0$f, o●^{0}m$_0$ *p* : o●^{0}m$_0$, c *n*.
25	St-Cu.	St-Cu.	St-Cu.	9	10	9	9	9	8	k	k	k	k	k	k	…	…	…	…	…	…	c *a* : cpd$_0$ *p* : c, bc *n*.
26	St-Cu : A-St.	St-Cu.	St-Cu : A-St.	10	10	10	9	10	9	I	j	j	j	j	k	d$_0$	…	d$_0$	…	…	…	cid$_0$ *a* : cd$_0$ c *p* : c *n*.
27	St : A-St.	St-Cu : Ci-St.	St-Cu.	10	9	9	10	10	10	i	j	l	k	j	j	d$_0$	…	…	●^{0}	●^{0}	…	cid$_0$, c *a* : c, ci●^{0} *p* : ci●^{0} ⫽ *n*.
28	Cu-Nb : Ci.	St-Cu.	Nb.	6	9	9	9	8	3	j	k	l	m	j	k	…	p✳^{0}	…	…	p✳^{0}	…	cp✳ *a and p* : cp✳, bc ↟ *n*.
29	St-Cu.	St-Cu : Ci.	St-Cu.	8	6	4	1	1	5	k	l	l	l	k	k	…	…	…	…	…	…	⊠ 2cm. c, bcp✳^{0} *a* : bc, b *p* : bcp✳^{0} *n*.
30	—	A-Cu : Ci-Cu.	—	0	0	1	1	0	0	k	l	l	l	k	k	…	…	…	…	…	…	⊠ 1cm. b *a*, *p and n*.
31	Ci-St.	Ci-St.	Ci-St.	9	9	10	9	9	10	l	m	l	j	j	j	…	…	…	…	…	…	⊠ 1cm., c Ⓤ, c ⊕ *a* : c *p* : c, bc *n*.
Mean Cloud Am'nt.				7·8	8·5	8·9	8·4	8·3	7·8													
Mean Annual Cloud Am'nt.				7·7	7·8	8·1	7·9	7·7	7·0													
	Cloud Forms			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the Weather of the Day.

Mean Values for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

265. Eskdalemuir. **1931.**

Month.	January. Factor 6·11.				February. Factor 6·25.				March. Factor 6·32.			
Hour. G.M.T.	3h.	9h.	15h.	21h.	3h.	9h.	15h.	21h.	3h.	9h.	15h.	21h.
Day.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.
1	195	255	585	z+	− 15	−270	240	240	265	z+	325	140
2	210	290	125	450	165	160	165	80	150	375	185	230
3	695	340	660	230	80	90	135	180	135	170	175	210
4	295	310	410	665	100	z+	80	125	115	95	180	435
5	275	270	205	355	325	230	320	335	185	180	210	400
6	145	250	220	260	170	−695	30	260	140	125	135	155
7	140	305	495	455	675	580	110	170	130	170	z−	335
8	190	365	455	265	115	z−	−220	60	− 15	160	130	195
9	840	360	385	320	155	195	220	100	z+	—	170	275
10	165	370	5	225	z±	65	25	235	195	(160)	385	480
11	115	165	− 95	275	115	− 35	z−	z+	145	245	260	330
12	205	380	245	515	z+	140	145	155	225	220	185	495
13	z±	160	275	440	240	235	700	430	260	z−	z−	365
14	725	375	365	165	225	135	225	300	175	(115)	55	195
15	145	160	180	145	145	85	45	z±	160	z−	155	505
16	80	55	−250	z±	60	340	355	795	180	270	255	290
17	z+	105	230	210	z+	145	125	115	155	240	355	825
18	120	115	200	550	85	—	85	100	405	475	365	710
19	15	125	240	320	75	210	60	115	345	255	180	360
20	95	160	180	330	z−	85	− 70	250	95	315	205	305
21	300	360	z−	z−	70	70	215	355	305	225	35	435
22	(45)	(290)	z−	z−	375	185	− 35	290	280	435	440	350
23	—	(185)	190	z−	220	235	395	705	190	70	65	140
24	65	z−	130	145	420	230	− 90	80	70	105	135	130
25	35	130	145	230	100	185	50	65	85	170	230	325
26	185	105	190	—	65	95	105	155	630	605	350	565
27	85	160	300	315	70	215	205	235	375	370	310	575
28	60	395	15	z−	275	235	225	310	115	10	60	90
29	30	70	215	90					275	130	190	210
30	205	245	175	280					95	95	200	150
31	230	—	z+	−655					115	130	210	560
(a)	210	236	262	315	188	188	185	240	207	219	212	347
(b)	237	247	255	322	197	140	191	274	199	221	211	352
Mean	(a) 256		(b) 265		(a) 200		(b) 201		(a) 246		(b) 246	

Month.	April. Factor 6·23.				May. Factor 6·12.				June. Factor 6·05.			
Hour. G.M.T.	3h.	9h.	15h.	21h.	3h.	9h.	15h.	21h.	3h.	9h.	15h.	21h.
Day.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.
1	295	255	225	370	140	45	z+	160	55	70	65	25
2	205	25	−175	155	195	95	375	175	80	65	z−	—
3	400	125	150	320	270	145	120	130	—	—	70	310
4	215	165	z−	z−	220	205	120	235	—	385	145	145
5	140	170	210	220	155	z+	170	z−	− 5	35	285	340
6	145	150	240	360	265	245	70	200	45	z−	z−	z−
7	175	340	175	170	215	190	(40)	90	150	45	—	280
8	120	160	150	185	z−	z−	165	190	—	− 55	—	365
9	455	150	175	320	45	105	170	205	185	300	z±	300
10	375	255	165	90	170	235	z−	z−	610	420	70	145
11	190	300	145	320	z−	215	z+	305	—	—	115	265
12	z−	105	55	205	355	190	175	230	150	—	65	150
13	130	145	65	160	45	20	z−	180	235	105	120	85
14	95	140	100	135	− 45	90	135	z−	240	225	z±	z−
15	80	185	z−	310	95	z−	185	275	100	100	95	−155
16	175	125	− 35	−255	310	135	245	200	z−	20	120	185
17	150	135	290	z−	180	205	145	135	115	160	110	95
18	55	110	z−	125	135	115	120	105	—	—	z±	− 70
19	115	115	130	160	90	85	100	180	255	95	120	160
20	95	35	120	250	75	100	105	215	80	90	120	30
21	90	140	105	250	105	170	220	360	165	165	105	5
22	140	45	z−	75	120	45	−100	175	−110	170	130	205
23	45	z−	z−	140	140	195	135	z−	270	175	215	175
24	z−	160	155	245	255	z−	z−	120	140	110	120	300
25	−300	z−	180	z−	120	160	190	170	135	160	195	465
26	z±	120	405	75	135	140	95	150	205	110	275	340
27	145	z±	275	330	90	60	115	310	335	75	150	105
28	200	175	z−	185	170	0	45	25	220	155	135	170
29	315	160	145	280	335	120	135	z−	135	165	165	290
30	320	300	65	215	150	120	130	325	145	145	135	185
31					z−	−310	105	55				
(a)	187	159	169	217	170	137	144	188	184	148	136	205
(b)	213	172	120	206	179	131	131	181	171	139	145	165
Mean	(a) 183		(b) 178		(a) 160		(b) 155		(a) 168		(b) 155	

NOTE.—The Potential Gradient is reckoned as positive if the potential increases upwards. For indeterminate potential gradient the following notation is used: z+, Indeterminate, positive value; z−, Indeterminate, negative value; z±, Indeterminate in magnitude and sign.
(a) Mean of all positive readings. (b) Mean from all complete days using both positive and negative readings.

Mean Values for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

265. Eskdalemuir. **1931.**

Month.	July. Factor 5·87				August. Factor 5·75				September. Factor 5·79			
Hour. G.M.T.	3h.	9h.	15h.	21h.	3h.	9h.	15h.	21h.	3h.	9h.	15h.	21h.
Day.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.
1	145	80	125	360	125	80	125	245	400	180	—	z±
2	z±	200	75	155	305	280	100	165	110	200	75	25
3	300	95	100	480	175	205	170	225	55	130	10	120
4	15	215	125	185	360	330	170	400	− 20	100	105	225
5	15	95	45	330	655	295	175	235	− 75	185	125	455
6	325	135	185	55	95	125	210	300	210	145	15	170
7	− 10	155	115	370	30	55	180	180	255	225	180	340
8	270	135	−315	180	230	215	135	180	190	170	z−	250
9	290	150	100	250	200	245	125	120	295	145	180	305
10	115	35	40	80	− 30	175	100	210	270	200	z±	340
11	330	130	—	—	80	175	75	130	115	325	z−	430
12	—	—	160	425	225	90	135	285	170	75	(125)	265
13	250	130	160	210	60	130	165	195	185	245	190	230
14	245	170	z±	365	175	185	225	105	125	300	175	610
15	170	220	135	150	− 10	50	105	175	160	175	125	290
16	225	230	110	115	215	z−	105	180	90	150	125	220
17	165	135	150	115	−465	z±	z+	145	150	305	190	220
18	90	125	z−	190	75	165	140	235	140	125	105	220
19	160	125	140	90	200	− 65	z±	235	120	145	120	150
20	110	205	180	335	120	130	z±	60	20	105	(160)	335
21	355	175	105	195	60	30	175	100	155	185	130	245
22	250	175	620	z+	90	195	135	310	145	110	285	695
23	190	180	120	275	185	110	110	100	120	30	145	225
24	115	125	150	255	75	125	150	205	90	115	125	170
25	20	315	90	400	120	110	130	250	55	120	85	325
26	300	180	140	285	180	110	175	270	200	180	195	330
27	5	135	95	−210	145	150	170	180	180	215	85	410
28	80	105	150	270	400	195	285	305	160	120	150	375
29	105	80	z−	70	210	165	140	405	75	250	130	295
30	280	170	125	290	380	250	325	385	225	170	135	355
31	80	200	190	160	140	135	195	315				
(a)	180	153	143	237	190	161	158	220	159	171	133	297
(b)	167	155	107	218	175	162	160	230	131	163	133	193
Mean	(a) 178		(b) 162		(a) 182		(b) 182		(a) 190		(b) 155	

Month.	October. Factor 5·79.				November. Factor 5·79.				December. Factor 5·82.			
Hour. G.M.T.	3h.	9h.	15h.	21h.	3h.	9h.	15h.	21h.	3h.	9h.	15h.	21h.
Day												
1	170	—	−340	95	300	160	100	150	415	230	430	555
2	145	30	z−	z±	− 20	190	−395	105	225	205	230	z−
3	75	160	145	215	z−	z−	z−	340	z−	− 20	60	90
4	(75)	180	130	200	−190	75	65	220	z−	115	z−	95
5	135	100	215	455	315	z±	215	460	z±	135	z±	275
6	200	100	280	z−	235	230	125	250	z−	150	250	190
7	195	300	z±	z−	105	z−	45	350	90	195	280	150
8	− 5	165	300	− 15	(690)	175	50	235	110	150	210	135
9	105	−310	z−	275	250	200	z±	(675)	55	105	155	170
10	155	225	110	240	z±	245	45	z−	165	150	150	335
11	170	55	400	695	215	265	z−	145	140	115	165	205
12	195	470	135	−260	z−	385	195	295	100	170	100	305
13	205	150	180	195	135	295	—	445	120	175	95	180
14	105	140	235	290	− 15	35	z−	z−	—	—	200	85
15	275	395	190	(660)	35	225	120	150	105	50	175	330
16	240	240	435	440	275	185	215	540	205	125	140	60
17	255	320	—	—	270	160	160	265	40	130	210	545
18	—	—	105	105	5	z−	z−	70	240	165	575	− 30
19	110	435	115	135	260	485	235	290	60	100	370	430
20	55	140	170	250	255	255	—	—	420	735	—	—
21	195	180	205	350	—	—	—	—	—	—	290	250
22	—	—	—	—	—	—	—	—	460	300	415	370
23	250	340	385	235	—	—	z−	z−	145	z−	30	−180
24	255	225	240	225	140	140	135	z−	30	100	140	90
25	110	280	250	365	105	255	360	335	80	150	115	165
26	190	405	160	290	z−	125	z−	z−	105	125	140	65
27	150	z−	505	160	260	185	z±	580	70	80	75	45
28	105	140	210	(715)	495	z−	390	395	z−	z±	180	240
29	(365)	465	z−	215	140	− 40	240	930	150	155	205	185
30	130	170	295	320	430	380	575	875	165	190	270	515
31	125	160	315	(735)					165	125	575	830
(a)	169	230	238	327	246	221	192	368	161	170	223	255
(b)	150	226	230	321	211	207	154	362	146	147	238	268
Mean	(a) 241		(b) 232		(a) 257		(b) 233		(a) 202		(b) 200	
					Annual Means (a)				188	183	183	268
					(b)				181	176	173	258
									(a) 205		(b) 197	

The Potential Gradient is reckoned as positive if the potential increases upwards. For indeterminate potential gradient the following notation is used: z+, Indeterminate, positive value; z−, Indeterminate, negative value; z±, Indeterminate in magnitude and sign.
(a) Mean of all positive readings. (b) Mean from all complete days using both positive and negative readings.

The departures from the mean of the day are adjusted for non-cyclic change.

266. Eskdalemuir. * 0*a* DAYS ONLY. **1931.**

Month and Season.	Hour. G.M.T. 1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Non-cyclic change 24–0.	No. of Days used.	Mean Values
	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.		v/m.
Jan.	0	− 5	− 11	− 58	−**162**	−**162**	−154	−121	− 63	− 31	+ 25	− 20	+ 38	+ 27	+ 15	+ 15	+ 47	+ 83	+ 76	+**138**	+ 95	+114	+ 78	+ 29	−177	6	320
Feb.	− 12	− 26	− 84	− 22	− 78	−150	−**185**	−163	− 86	− 24	+ 35	+ 46	+ 49	+ 34	+ 18	+ 8	+ 52	+ 98	+112	+**173**	+ 83	+ 38	+ 42	+ 28	−146	2	230
Mar.	0	− 6	− 35	− 58	− **78**	− 73	− 41	− 52	− 29	− 2	+ 1	− 10	− 24	− 53	− 68	− 64	− 27	+ 74	+113	+110	+**129**	+108	+ 56	+ 19	+ 63	13	307
April	+ 13	+ 6	+ 24	+ 21	+ 7	+ 6	+ 23	− 8	− 25	− **59**	− 40	− 49	− 55	− 35	− 48	− 23	− 23	+ 16	+ **67**	+ 62	+ 59	+ 43	+ 20	+ 11	− 60	9	225
May	+ 40	+ **68**	+ 14	− 11	− 9	+ 2	+ 2	− 18	− 10	− 14	− 13	− 13	− 21	− **27**	− 22	− 21	− 8	0	− 6	+ 14	+ 36	+ 18	+ 17	− 10	+ 60	6	165
June	+ 3	− 10	+ 3	+ 17	+ 20	+ 57	0	− **44**	− **44**	− 38	− 35	− 33	− 20	− 14	− 23	− 37	− 41	− 36	0	+ 24	+ 52	+ **75**	+ 67	+ 45	+ 38	8	176
July	+ 47	+ 37	+ 17	− 17	− 10	+ 10	+ 25	− 18	− 19	− **59**	− 55	− 47	− 45	− 27	− 40	− 6	− 9	+ 14	+ 51	+ 23	+ 44	+ 9	+ 23	+ **59**	− 20	4	188
Aug.	+ 38	+ 12	+ 9	+ 32	+ 14	+ 8	+ 12	+ 6	− 30	− 33	− **54**	− **54**	− 44	− 45	− 43	− 37	− 33	− 13	+ 32	+ 39	+ 40	+ 44	+ **49**	+ 41	+ 59	14	204
Sept.	+ 1	− 18	− 42	− 33	− 59	− 39	− 20	+ 22	− 20	− 40	− 44	− 59	− 71	− **75**	− 65	− 53	− 9	+ 47	+ 98	+**129**	+106	+104	+ 90	+ 44	+ 17	12	207
Oct.	+ 8	− 17	− 78	− **85**	− 76	− 52	− 10	+ 4	− 8	− 32	− 67	− 53	− 36	− 36	− 25	+ 18	+ 81	+ 79	+ 87	+105	+**124**	+ 44	+ 14	+ 1	− 16	8	249
Nov.	+ 86	− 46	− 84	− 20	− 41	− 65	− 98	−**152**	−**152**	−110	− 97	− 91	− 83	− 86	− 66	+ 33	+ 89	+155	+173	+170	+**192**	+144	+ 90	+ 65	− 53	3	389
Dec.	− 42	− 42	− 69	− 70	− 52	− 95	− 74	−**100**	− 99	− 71	− 71	− 53	− 39	− 34	+ 5	+ 76	+149	+138	+**163**	+121	+130	+116	+ 46	− 17	+ 13	10	258
Year	+ 15	− 4	− 28	− 25	− 44	−46	− 43	− **54**	− 49	− 43	− 35	− 36	− 27	− 31	− 30	− 8	+ 22	+ 55	+ 81	+ **92**	+ 91	+ 71	+ 49	+ 25	—	—	243
Winter	+ 8	− 30	− 62	− 43	− 83	−118	−128	−**134**	−100	− 59	− 27	− 29	− 9	− 15	− 7	+ 33	+ 84	+119	+131	+**151**	+125	+103	+ 64	+ 26	—	—	299
Eqnx.	+ 5	− 9	− 33	− 39	− **52**	− 39	− 12	− 8	− 21	− 33	− 37	− 43	− 39	− 50	− 51	− 31	+ 5	+ 54	+ 91	+102	+**105**	+ 75	+ 45	+ 15	—	—	197
Sumr.	+ 32	+ 27	+ 11	+ 5	+ 4	+ 19	+ 10	− 18	− 26	− 36	− **39**	− 37	− 32	− 29	− 32	− 25	− 23	− 9	+ 19	+ 25	+ **43**	+ 37	+ 39	+ 34	—	—	183

267. Eskdalemuir. * 1*a* and 2*a* DAYS ONLY. **1931.**

Month and Season.	Hour. G.M.T. 1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Non-cyclic change 24–0.	No. of Days used.	Mean Values
	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.	v/m.		v/m.
Jan.	− 63	− 23	−122	− 87	−**123**	− 95	− 56	− 92	− 8	− 33	− 8	− 9	0	+ 1	+ 31	+ 84	+ 96	+ 39	+ 52	+ 39	+ 94	+106	+**123**	+ 61	− 50	5	233
Feb.	− 10	− 50	− 18	+ 13	− 34	+ 4	+ 35	+ 50	+ 56	+ 28	+ 18	− 31	− **89**	− 3	− 1	− 25	0	− 60	− 10	+ **75**	+ 14	+ 25	+ 5	− 5	+ 55	3	117
Mar.	− 50	− 45	− **80**	− 64	− 12	− 50	− 49	− 13	− 16	− 24	− 16	− 17	− 5	− 27	+ 29	+ 16	+ 5	− 10	+ 75	+ **80**	+ 78	+ 79	+ 59	+ 70	−143	5	182
April	+ 67	+ 51	+ 66	+ 76	+ 44	+ 45	+ 38	+ 40	+ 45	+ 13	+ 7	− 7	− 29	− 56	− 92	−113	−**185**	−113	− 43	− 61	− 26	+ 75	+ **91**	+ 76	+176	3	177
May	− 59	− **65**	− 40	− 8	− 33	− 13	− 27	− 35	− 30	− 23	− 32	− 48	+ 1	− 5	+ 17	− 2	+ 3	+ 14	+ 18	+ 63	+**154**	+117	+ 66	− 38	− 64	3	136
June	+ 27	+ 8	− 36	− 10	− 5	− 35	− 47	− **86**	− 32	− 37	− 11	− 18	+ 24	+ **98**	+ 31	+ 38	+ 15	+ 1	+ 28	+ 12	+ 33	+ 17	− 11	+ 3	+ 46	5	151
July	− 21	+ 21	+ 27	+ 43	+ 76	+ 28	+ 17	+ 31	+ 9	− 9	− 45	− 43	− 50	− 37	− 58	− 64	− **71**	− 60	− 35	+ 8	+ 85	+ **99**	+ 44	+ 19	+ 55	6	156
Aug.	− 48	− **64**	− 45	− 48	− 36	− 13	− 9	+ 1	+ 8	− 45	− 37	− 30	− 15	− 14	+ 18	+ 9	+ 34	+ 32	+ 63	+ 70	+ 42	+ 69	+ **81**	− 18	+ 50	7	135
Sept.	− 40	− **95**	− 59	+ 5	− 52	− 18	− 9	− 5	− 3	− 19	− 30	− 39	− 62	− 24	− 15	− 4	+ 14	+ 58	+110	+**118**	+109	+ 66	+ 19	− 19	− 75	8	144
Oct.	− 38	− 17	− 50	− 95	−**108**	− 85	− 51	+ 27	+ 12	− 17	0	− 1	− 15	+ 46	+ 93	+136	+**201**	+ 53	− 24	− 25	+ 29	− 53	− 11	− 18	+ 12	2	244
Nov.	− 55	+ 1	− 19	− 19	− 8	− 22	− 27	− 10	+ 6	+ 24	+ 23	− 3	+ 18	+ 76	− 68	− 30	− 25	− 1	+ 61	− **72**	+ 86	+**101**	+ 2	− 34	−119	1	210
Dec.	− 25	− 29	− 58	− 83	− **99**	− 33	− 30	− 33	− 37	+ 33	+ 38	+ 66	+**107**	+ 46	+ 75	+ 60	+ 41	+ 14	+ 17	− 1	+ 10	− 38	− 30	− 2	− 37	6	166
Year	− 26	− 26	− **36**	− 23	− 33	− 24	− 18	− 10	+ 1	− 9	− 8	− 15	− 10	+ 8	+ 5	+ 9	+ 11	− 3	+ 26	+ 25	+ **59**	+ 55	+ 36	+ 8	—	—	171
Winter	− 38	− 25	− 54	− 44	− **66**	− 37	− 20	− 21	+ 4	+ 13	+ 18	+ 6	+ 9	+ 30	+ 9	+ 22	+ 28	− 2	+ 30	+ 10	+ **51**	+ 48	+ 25	+ 5	—	—	181
Eqnx.	− 15	− 27	− 31	− 20	− **32**	− 27	− 18	+ 12	+ 9	− 12	− 10	− 16	− 28	− 15	+ 4	+ 9	+ 9	− 3	+ 29	+ 28	+ **47**	+ 42	+ 39	+ 27	—	—	187
Sumr.	− 25	− 25	− 24	− 6	0	− 8	− 17	− 22	− 11	− 29	− 31	− **35**	− 10	+ 10	+ 2	− 5	− 5	− 3	+ 18	+ 38	+ **78**	+ 75	+ 45	− 9	—	—	145

*NOTE.—For explanation of 0*a* 1*a* and 2*a* Days, *see* page 158.

268. Eskdalemuir. **1931.**

Month.	January.		February.		March.		April.		May.		June.	
Day.	Character	Duration of Negative Pot. Grad.	Character	Duration of Negative Pot. Grad.	Character	Duration of Negative Pot. Grad.	Character	Duration of Negative Pot. Grad.	Character	Duration of Negative Pot. Grad.	Character	Duration of Negative Pot. Grad.
		hours.		hours.		hours.		hours.		hours.		hours.
1	0a	...	2b	5·1	0b	...	0a	...	2b	3·4	1a	1·5
2	0a	...	1b	1·9	0a	...	2b	7·0	1b	0·9	2b	7·1
3	0a	...	0a	...	0a	...	0a	...	1b	0.3	(1a)	0·1
4	1a	0·3	1b	1·6	0a	...	2b	4·2	0a	...	(1a)	0·1
5	0a	...	0a	...	0a	...	1b	0·3	2c	4·8	1a	1·2
6	0a	...	2b	8·1	1b	0·4	0a	...	1b	1·3	2c	16·9
7	0a	...	2b	3·6	1c	0·9	0a	...	1b	1·0	(1a)	0·7
8	1b	2·2	2c	9·8	1b	0·6	1a	1·0	2b	5·1	(1b)	—
9	0a	...	1b	0·8	1b	0·2	0a	...	0a	...	(1b)	—
10	1b	1·1	2b	4·9	0b	...	0a	...	2c	5·7	2c	5·3
11	2b	3·8	2c	7·7	0a	...	0a	...	2c	6·2	(1a)	—
12	1b	2·1	1c	0·3	0a	...	1b	2·5	0a	...	1a	0·7
13	1b	0·5	1b	0·7	2c	11·9	1a	1·8	2b	5·4	1b	0·7
14	0a	...	1b	2·5	1b	1·1	0a	...	2c	5·8	2c	9·3
15	1a	0·7	2c	4·1	2b	4·5	2c	8·1	1b	0·5	2b	6·7
16	2c	8·1	1b	0·4	0a	...	2c	5·4	1b	2·2	2b	8·5
17	1b	0·7	1b	0·5	0a	...	2c	7·6	1b	1·5	2c	5·4
18	0a	...	(1a)	(0·3)	0a	...	2c	4·2	0a	...	2c	8·4
19	1b	1·0	1b	1·7	0a	...	1b	1·1	1b	1·6	0a	...
20	1a	1·1	2c	11·5	1a	0·4	1a	0·5	0a	...	0a	...
21	2c	10·5	1c	0·7	2b	4·6	1a	0·5	0a	...	1a	0·6
22	2c	6·4	2b	3·5	1a	0·6	2c	3·5	1b	2·3	1a	1·3
23	2c	6·8	1a	0·5	1a	0·8	2c	9·1	1b	2·6	1a	0·1
24	2c	5·6	2b	3·9	0a	...	2c	5·2	2b	5·6	0a	...
25	1c	2·7	1a	1·6	0a	...	2c	15·1	1a	0·5	0a	...
26	1b	0·3	1a	0·7	0a	...	2b	4·5	1b	1·0	0a	...
27	1a	0·1	1a	0·6	0a	...	2c	3·1	1a	0·2	1a	0·7
28	2b	8·7	0a	...	1a	1·4	1b	1·8	2b	4·1	0a	...
29	1a	2·4			0a	...	0a	...	1b	2·1	0a	...
30	0a	...			1a	0·1	1a	0·1	1a	0·5	0a	...
31	2b	5·5			0a	...			2c	10·3		
Total	—	70·6	—	77·0	—	27·5	—	86·6	—	74·9	—	75·3
No. of days used	—	31	—	28	—	31	—	30	—	31	—	27
Mean	—	2·3	—	2·7	—	0·9	—	2·9	—	2·4	—	2·8

Month.	July.		August.		September.		October.		November.		December.	
Day.	Character	Duration of Negative Pot. Grad.	Character	Duration of Negative Pot. Grad.	Character	Duration of Negative Pot. Grad.	Character	Duration of Negative Pot. Grad.	Character	Duration of Negative Pot. Grad.	Character	Duration of Negative Pot. Grad.
		hours.		hours.		hours.		hours.		hours.		hours.
1	1b	1·4	0a	...	(1c)	2·8	2a	4·5	0a	...	0a	...
2	1b	2·9	1a	0·1	1b	0·7	2b	3·7	2b	4·5	2b	5·3
3	2b	3·7	0a	...	1a	2·4	1a	0·1	2c	14·7	2c	12·1
4	1b	2·7	0a	...	1a	2·9	1a	0·2	2b	5·9	2c	8·8
5	1b	2·7	0a	...	2b	4·2	0a	...	1b	1·8	1b	2·7
6	2b	3·1	1a	0·3	1b	2·3	2b	5·8	1a	0·4	1b	2·5
7	2b	3·0	1a	0·3	0a	...	2c	5·2	2c	10·9	1b	1·8
8	2b	9·7	1b	1·2	1b	0·9	1b	1·6	2b	6·5	1b	1·6
9	1a	0·3	1a	0·4	0a	...	2c	9·1	2c	5·8	1a	0·3
10	1a	0·5	2a	4·1	1b	1·0	0a	...	2c	4·4	0a	...
11	0a	...	0a	...	1b	2·7	0a	...	2c	3·1	0a	...
12	(1a)	(0·8)	0a	...	1a	0·4	1b	2·2	1b	2·2	1a	0·2
13	1b	0·5	1a	0·4	0a	...	0a	...	1a	0·2	(1a)	0·1
14	2c	3·0	1b	2·2	0a	...	0a	...	2c	19·3	(1a)	...
15	1b	1·9	1b	2·8	1a	0·4	0a	...	1b	2·7	0a	...
16	1b	0·5	1b	2·9	1a	0·4	0a	...	0a	...	1a	0·8
17	1b	2·3	2c	9·1	1a	0·8	0a	...	0a	...	0a	...
18	1b	0·7	1a	0·5	0a	...	1a	0·1	2c	17·9	1a	1·0
19	1b	2·6	2c	5·8	1a	0·1	0a	...	1a	0·1	1a	2·7
20	1b	0·5	2c	4·0	1a	0·4	1b	1·0	(1b)	—	(0a)	—
21	0a	...	1a	1·4	0a	...	0a	...	(1b)	—	(1a)	—
22	2b	3·1	0a	...	0a	...	0a	...	(0a)	—	0a	...
23	1a	0·1	0a	...	1a	0·1	1a	0·1	2c	—	2c	11·8
24	0a	...	0a	...	0a	...	1b	0·1	2b	3·9	1b	1·9
25	1a	1·4	0a	...	0a	...	0a	...	2b	3·3	0a	...
26	0a	...	0a	...	0a	...	0a	...	2c	9·9	0a	...
27	2b	7·3	0a	...	0a	...	2b	5·7	2c	6·9	1a	1·4
28	1a	1·9	0a	...	0a	...	1b	1·3	1b	1·5	1c	2·4
29	1b	1·9	0a	...	0a	...	2b	4·3	1b	2·7	1b	0·2
30	1a	0·1	0a	...	1a	0·4	1a	0·4	0a	...	0a	...
31	0a	...	0a	...			1a	0·3			0a	...
Total	—	58·6	—	35·5	—	22·9	—	45·7	—	128·6	—	57·6
No. of days used	—	31	—	31	—	30	—	31	—	27	—	29
Mean	—	1·9	—	1·1	—	0·8	—	1·5	—	4·8	—	2·0

Annual Values.

Character Frequency ...	0	1	2
	117	159	89

Duration	Total.	No. of Days.	Mean.
	760·8	357	2·13 hours.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

269. Eskdalemuir. (X.) 15,000 γ (·15 C.G.S. unit) + **January, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1041	1042	1039	1038	1042	1047	1052	1050	1051	1047	1046	1043	1047	1053	1052	1048	1051	1051	1056	1057	1048	1051	1031	1032	1036	1046
2	1036	1038	1046	1042	1048	1048	1047	1050	1048	1046	1041	1042	1042	1042	1041	1043	1048	1051	1052	1052	1052	1047	1048	1046	1044	1046
3 Q	1044	1043	1046	1045	1047	1050	1050	1050	1050	1048	1050	1052	1052	1052	1052	1053	1052	1052	1052	1052	1051	1047	1046	1044	1043	1049
4	1043	1046	1047	1047	1051	1049	1050	1051	1051	1050	1041	1039	1048	1052	1052	1047	1047	1048	1051	1051	1051	1051	1047	1047	1050	1048
5	1050	1047	1047	1048	1048	1051	1052	1052	1048	1051	1052	1051	1052	1056	1056	1052	1052	1054	1054	1054	1053	1052	1050	1044	1046	1051
6	1046	1047	1056	1053	1057	1062	1066	1062	1056	1053	1051	1047	1046	1052	1055	1052	1052	1053	1056	1055	1053	1052	1051	1051	1051	1054
7 Q	1051	1052	1052	1052	1055	1057	1057	1059	1057	1053	1052	1055	1054	1056	1057	1057	1053	1052	1053	1056	1058	1055	1052	1052	1052	1054
8 Q	1052	1051	1052	1052	1054	1057	1061	1061	1057	1056	1052	1052	1053	1057	1057	1056	1052	1054	1057	1058	1058	1057	1056	1056	1056	1055
9	1056	1052	1051	1067	1065	1057	1067	1066	1069	1058	1052	1052	1056	1056	1052	1043	1041	1047	1050	1050	1053	1043	1041	1031	1038	1053
10 D	1038	1031	1029	1032	1051	1041	1055	1057	1051	1039	1047	1043	1041	1042	1047	1043	1038	1042	1044	1042	1083	1052	1042	1042	1042	1045
11	1042	1042	1052	1046	1048	1052	1052	1047	1046	1036	1042	1042	1047	1051	1052	1051	1049	1042	1039	1039	1042	1037	1037	1042	1047	1045
12	1047	1041	1041	1042	1046	1050	1052	1053	1048	1047	1047	1043	1042	1042	1042	1045	1051	1047	1046	1047	1047	1052	1049	1047	1051	1047
13	1051	1046	1045	1045	1046	1046	1050	1050	1045	1045	1042	1041	1041	1046	1047	1046	1045	1045	1046	1049	1050	1049	1065	1046	1046	1047
14	1046	1050	1050	1050	1051	1051	1051	1051	1046	1046	1045	1051	1056	1057	1056	1051	1051	1055	1056	1055	1055	1056	1055	1051	1048	1052
15	1048	1042	1045	1046	1051	1051	1054	1060	1051	1049	1052	1058	1056	1056	1053	1047	1050	1052	1054	1052	1051	1053	1051	1046	1051	1051
16 D	1051	1051	1045	1060	1067	1066	1062	1057	1056	1024	1029	1035	1031	1041	1051	1030	1029	1032	1066	1035	1044	1037	1068	1046	1066	1047
17 D	1066	1026	1040	1046	1046	1055	1050	1043	1045	1041	1037	995	991	1012	1030	1024	1047	1045	1041	1070	1041	1041	1046	1051	1057	**1039**
18 D	1057	1050	1051	1050	1048	1048	1042	1041	1045	1040	1038	1041	1042	1043	1043	1044	1046	1047	1052	1050	1048	1045	1044	1038	1037	1045
19	1037	1041	1042	1042	1043	1042	1043	1042	1042	1040	1042	1033	1034	1040	1046	1045	1047	1051	1050	1051	1046	1044	1047	1051	1074	1044
20	1074	1040	1044	1047	1051	1055	1055	1055	1055	1052	1050	1046	1049	1049	1047	1041	1035	1026	1021	1036	1040	1047	1045	1068	1046	1046
21	1046	1046	1046	1051	1050	1059	1061	1064	1062	1057	1052	1051	1051	1051	1050	1047	1049	1047	1046	1040	1046	1050	1048	1054	1055	1051
22	1055	1050	1048	1050	1045	1053	1057	1060	1061	1054	1038	1047	1043	1041	1043	1045	1050	1051	1055	1055	1053	1053	1052	1049	1056	1050
23	1056	1053	1050	1050	1053	1052	1056	1060	1060	1060	1055	1054	1050	1050	1055	1047	1040	1041	1045	1050	1054	1054	1053	1058	1053	1052
24 Q	1053	1050	1051	1050	1055	1060	1064	1060	1058	1060	1060	1055	1054	1055	1056	1055	1050	1054	1056	1060	1064	1060	1058	1056	1056	**1056**
25 D	1056	1057	1056	1057	1057	1059	1060	1061	1059	1064	1060	1055	1054	1054	1051	1054	1058	1061	1061	1042	1033	1018	1019	1010	1025	1050
26	1025	1004	1045	1035	1036	1045	1046	1044	1050	1049	1044	1040	1036	1039	1040	1045	1046	1050	1053	1045	1050	1053	1049	1045	1044	1043
27	1044	1044	1045	1045	1048	1050	1051	1053	1049	1046	1044	1044	1045	1048	1050	1045	1040	1035	1045	1038	1039	1054	1040	1029	1041	1045
28	1041	1042	1045	1057	1040	1051	1056	1051	1045	1041	1035	1033	1023	1029	1044	1046	1045	1049	1045	1045	1045	1045	1044	1046	1056	1044
29	1056	1046	1045	1045	1048	1049	1050	1054	1055	1055	1055	1045	1030	1025	1031	1040	1036	1039	1049	1050	1050	1045	1046	1046	1049	1045
30 Q	1049	1049	1050	1051	1051	1051	1058	1054	1052	1049	1045	1037	1038	1041	1050	1054	1054	1054	1055	1055	1054	1054	1052	1054	1051	1051
31	1051	1053	1053	1051	1050	1055	1059	1057	1055	1050	1050	1044	1041	1040	1041	1041	1047	1046	1047	1050	1050	1055	1054	1064	1061	1050
Mean	1049	1044	1047	1048	1050	1052	**1054**	1054	1052	1049	1047	1044	**1043**	1046	1048	1046	1047	1048	1050	1050	1050	1049	1048	1047	1049	1048

TERRESTRIAL MAGNETIC FORCE: WEST COMPONENT.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

270. Eskdalemuir. (—Y.) 4,000 γ (·04 C.G.S. unit) + **January, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	194	194	192	192	194	201	200	198	198	198	204	212	215	209	207	206	209	205	205	205	205	199	188	157	194	199
2	194	192	200	192	186	192	198	200	198	195	198	200	205	209	211	207	205	203	200	199	198	195	192	200	199	199
3 Q	199	198	198	198	198	198	198	198	198	198	205	205	205	206	206	201	200	199	198	198	198	196	196	198	197	200
4	197	193	199	199	198	198	198	198	198	199	200	205	205	207	205	199	198	198	198	198	198	196	193	193	194	199
5	194	193	198	198	198	198	198	198	198	203	205	205	209	207	205	203	204	203	200	198	198	198	198	196	193	200
6	193	198	192	193	196	199	198	199	198	199	204	205	211	213	211	207	207	205	203	199	198	198	198	198	198	201
7 Q	198	199	201	203	205	205	201	203	198	200	205	207	209	206	205	205	205	204	202	199	198	198	196	192	192	**202**
8 Q	192	197	198	197	199	198	197	197	198	203	204	205	208	208	203	199	202	202	201	199	197	197	197	197	197	200
9	197	197	206	157	157	176	185	197	198	204	210	211	218	224	210	214	212	208	204	197	200	198	184	163	141	196
10 D	141	167	177	196	183	192	191	195	210	208	211	212	212	206	203	199	195	197	198	191	163	178	190	191	191	193
11	191	190	196	196	197	197	197	193	199	197	206	210	211	204	199	202	204	205	197	203	188	192	194	184	200	198
12	200	183	189	191	197	197	197	191	191	196	203	211	206	206	205	210	206	207	210	204	202	193	197	189	185	199
13	185	190	191	192	193	197	193	195	197	197	206	205	211	206	206	204	204	199	201	197	196	195	191	195	197	198
14	197	197	195	194	197	196	196	193	192	197	203	210	211	207	200	198	199	199	198	197	197	195	194	191	178	198
15	178	185	181	183	191	197	197	197	191	197	199	217	216	212	204	199	204	204	205	204	190	191	193	181	190	197
16 D	190	175	177	183	191	199	207	204	210	212	218	212	218	211	210	177	197	190	149	156	177	183	131	177	169	**189**
17 D	169	172	190	211	206	218	204	204	198	204	197	195	212	218	208	199	169	197	177	175	183	189	178	186	187	195
18 D	187	183	175	183	189	189	206	207	211	228	228	218	214	210	206	202	193	185	171	173	179	187	185	191	208	196
19	208	197	197	197	197	197	193	196	196	204	204	197	206	212	207	197	197	197	197	192	171	178	184	193	204	196
20	204	191	189	191	192	197	197	197	196	197	197	199	206	204	204	204	185	191	177	197	185	190	185	177	190	194
21	190	189	194	190	196	194	196	196	204	204	203	203	205	209	203	198	197	196	196	184	185	182	183	185	190	195
22	190	186	196	196	202	191	195	196	196	196	189	196	198	203	203	196	198	197	196	194	194	191	190	184	198	195
23	198	190	184	189	190	195	193	195	196	197	201	197	198	204	205	203	203	202	196	197	196	194	190	184	190	196
24 Q	190	193	196	196	196	196	196	197	194	196	196	198	203	207	209	203	202	201	202	201	198	196	196	196	196	198
25 D	196	196	198	201	200	203	203	203	207	204	203	203	205	207	209	209	209	209	209	176	169	130	116	129	131	190
26	131	164	192	190	196	196	204	209	217	206	210	205	204	203	203	197	196	198	201	195	194	196	196	191	192	197
27	192	195	195	196	196	194	196	194	195	196	197	201	203	201	205	203	211	209	207	189	186	171	150	150	182	193
28	182	184	190	182	170	176	182	190	187	189	194	199	204	203	204	198	198	203	197	193	194	191	189	197	201	192
29	201	186	190	190	190	196	193	192	196	196	204	207	205	229	222	205	211	196	198	196	196	190	188	196	191	199
30 Q	191	190	196	196	196	196	196	193	196	196	196	196	196	203	203	196	195	196	196	196	196	194	194	196	196	196
31	196	196	197	192	197	195	191	190	190	190	192	196	198	202	204	198	203	203	203	181	190	196	191	191	179	195
Mean	189	189	193	192	193	196	197	197	198	200	203	205	207	**208**	206	201	201	200	197	193	191	190	**185**	185	189	197

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

271. Eskdalemuir. (Z.) 44,000 γ (·44 C.G.S. unit) + **January, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	917	919	919	918	916	915	915	915	915	914	914	911	914	916	915	915	916	916	915	915	919	920	932	941	927	918
2	927	923	919	914	914	912	911	911	911	914	914	917	917	917	918	918	918	917	917	917	917	918	921	918	918	**916**
3 Q	918	924	924	924	923	922	922	924	924	924	927	928	928	928	928	929	929	929	929	929	929	932	932	932	933	927
4	933	934	933	933	933	930	930	930	930	929	929	930	930	930	933	933	934	934	934	934	934	933	934	934	933	932
5	933	933	934	933	933	933	933	933	933	930	933	933	934	936	937	937	937	937	937	937	935	934	934	937	937	935
6	937	938	937	936	934	933	933	933	933	933	933	934	934	937	937	937	937	937	935	934	934	934	934	934	934	935
7 Q	934	935	936	936	936	935	935	934	934	933	933	935	937	939	939	938	937	937	937	937	935	934	934	936	935	936
8 Q	935	936	935	935	935	935	934	934	934	933	934	934	935	935	934	934	935	935	935	935	934	934	934	934	934	934
9	934	934	928	923	926	926	926	926	926	926	929	931	934	931	934	935	939	942	943	943	943	944	952	962	963	935
10 D	963	951	948	947	944	937	934	935	931	934	937	939	940	943	943	943	946	945	946	947	940	937	938	939	939	941
11	939	939	939	937	938	937	936	937	936	935	935	935	935	935	935	935	935	937	942	944	944	948	948	947	938	939
12	938	939	939	939	936	936	936	936	935	935	935	936	936	938	940	941	940	941	940	942	944	944	941	943	942	939
13	942	940	939	936	935	935	935	935	935	935	935	936	935	936	936	936	937	939	940	940	940	940	937	938	938	937
14	938	937	937	936	936	936	936	936	936	936	940	940	937	939	940	939	937	937	936	936	937	936	937	938	940	937
15	940	940	939	938	935	934	933	933	933	934	933	931	930	933	937	937	937	937	937	937	938	938	937	941	937	936
16 D	937	929	925	921	924	921	922	925	925	925	926	926	928	933	937	951	950	950	960	950	943	942	943	925	912	934
17 D	912	925	925	917	912	913	918	924	929	933	937	946	949	949	958	960	973	955	950	946	942	942	941	939	930	938
18 D	930	928	937	937	930	928	923	917	917	917	915	943	946	959	963	968	983	1003	990	972	961	948	952	946	941	**947**
19	941	941	946	946	947	944	944	942	942	942	947	942	941	939	942	945	943	943	942	939	943	944	942	939	927	942
20	927	927	934	937	935	935	934	934	934	931	933	934	934	938	939	943	951	952	956	951	948	943	942	938	934	939
21	934	934	935	935	936	935	935	935	932	931	933	932	931	931	935	936	939	940	940	944	943	943	940	936	935	936
22	935	936	935	935	935	932	934	932	931	931	935	935	935	934	935	936	936	937	936	936	936	936	935	935	934	935
23	934	931	932	933	932	932	932	932	932	932	936	935	932	932	932	936	936	936	939	937	936	935	935	933	932	934
24 Q	932	931	930	932	932	932	929	928	928	928	927	925	927	924	927	928	928	932	932	932	931	932	931	930	930	929
25 D	930	931	931	930	931	932	931	929	928	928	929	929	928	927	928	931	928	929	929	940	949	957	954	946	929	934
26	929	917	907	928	934	933	930	933	929	931	935	937	938	941	941	941	941	939	940	941	941	938	938	938	937	934
27	937	937	937	937	937	937	937	937	936	935	937	938	937	937	938	940	940	941	941	946	946	945	945	946	944	939
28	944	941	935	920	930	933	932	933	933	937	941	941	941	941	941	941	939	938	941	941	941	942	942	941	926	937
29	926	933	936	936	936	934	934	935	934	933	934	937	938	936	941	949	946	946	944	941	941	941	942	939	937	938
30 Q	937	937	937	936	934	935	934	936	937	937	941	942	941	937	938	937	937	937	937	937	937	937	937	936	935	937
31	935	934	934	934	933	933	933	933	933	933	936	937	937	937	934	937	938	938	937	941	941	937	937	935	933	936
Mean	934	933	933	932	932	931	931	931	**931**	931	932	934	934	935	937	938	939	**940**	**940**	939	939	938	939	938	934	935

DAILY EXTREMES OF EACH COMPONENT OF TERRESTRIAL MAGNETIC FORCE:

272. Eskdalemuir. MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **January, 1931.**

Day.	Terrestrial Magnetic Elements: North Component. Maximum 15000 γ +		Minimum 15000 γ +		Range.	West Component. Maximum 4000 γ +		Minimum 4000 γ +		Range.	Vertical Component. Maximum 44000 γ +		Minimum 44000 γ +		Range.	Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2)	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ			°A.
1	15 55	1062	1012	22 20	50	12 0	219	124	22 33	95	22 33	946	910	10 50	36	128	1	83·3
2	2 21	1067	1031	0 1	36	2 18	217	184	4 5	33	0 1	928	911	2 28	17	27	1	83·3
3 Q	12 32	1055	1041	0 21	14	13 33	212	192	4 36	20	24 0	934	920	0 1	14	8	0	83·1
4	14 8	1056	1037	11 2	19	12 37	210	191	0 51	**19**	1 4	935	929	12 46	6	8	0	83·1
5	15 49	1057	1042	23 33	15	11 29	212	190	1 20	22	14 0	938	930	9 0	8	8	0	83·1
6	6 5	1067	1042	0 25	25	13 3	214	190	2 35	24	1 25	938	933	9 22	5	12	0	83·0
7 Q	7 10	1062	1049	0 1	**13**	11 36	211	192	23 0	**19**	13 30	941	933	10 22	8	6	0	82·9
8 Q	6 0	1062	1047	3 3	15	12 22	210	191	0 9	**19**	3 3	936	933	9 0	**3**	6	0	**82·9**
9	7 42	1077	1017	22 49	60	12 55	236	116	23 52	120	23 15	968	922	2 40	46	201	1	82·9
10 D	19 37	1098	1022	4 49	76	10 29	218	118	0 1	100	0 1	964	930	8 0	34	169	1	82·9
11	23 59	1068	1027	21 2	41	23 59	224	170	22 47	54	22 54	949	933	15 0	16	49	1	82·9
12	0 1	1067	1037	0 55	30	0 1	224	172	23 22	52	23 34	944	935	9 14	9	37	0	82·9
13	21 58	1080	1040	11 59	40	12 19	212	184	21 49	28	21 12	940	935	12 20	5	24	0	82·9
14	13 35	1060	1044	9 30	16	11 2	214	177	23 55	37	14 0	941	936	4 50	5	17	0	82·7
15	10 49	1069	1036	22 50	33	11 8	223	175	2 24	48	0 28	946	929	11 29	17	37	1	82·7
16 D	17 59	**1109**	1000	14 42	109	11 42	238	91	17 49	**147**	17 48	971	909	24 0	62	373	1	82·7
17 D	18 42	1096	**975**	11 23	**121**	13 30	241	111	18 25	130	15 41	980	909	0 1	71	366	1	82·7
18 D	(0 4)	(1061)	(1034)	(9 50)	(27)	(9 50)	(**244**)	(119)	(18 57)	(125)	17 14	**1008**	910	10 0	**98**	260	1	82·7
19	23 57	1091	1020	10 35	71	12 58	218	145	20 13	73	20 28	947	926	24 0	21	108	1	82·7
20	23 9	1096	1007	17 54	89	0 5	217	169	23 0	48	17 59	959	922	0 28	37	116	1	82·5
21	7 6	1066	1035	18 44	31	13 20	211	175	21 31	36	19 18	944	931	12 20	13	24	1	82·5
22	7 3	1068	1031	9 55	37	13 15	210	182	22 50	28	17 0	937	931	9 0	6	22	0	82·5
23	1 21	1076	1039	15 45	37	0 17	211	182	22 50	29	18 6	940	927	0 30	13	24	0	82·5
24 Q	5 46	1067	1045	16 20	22	13 41	210	190	0 42	20	18 0	932	924	13 19	8	9	0	82·5
25 D	18 8	1070	990	22 11	80	13 7	216	**90**	22 10	126	21 22	958	926	13 10	32	233	1	82·5
26	1 53	1060	979	0 51	81	8 4	223	123	0 31	100	18 52	942	**903**	1 58	39	181	1	82·5
27	20 55	1062	1019	23 1	43	16 9	217	136	22 43	81	20 10	950	934	8 37	16	87	1	82·5
28	23 31	1084	1010	12 16	74	23 33	233	162	3 16	71	0 1	945	917	2 58	28	113	1	82·5
29	0 11	1059	1005	14 19	54	13 8	231	176	17 12	55	14 43	950	925	0 1	25	66	1	82·3
30 Q	5 55	1060	1029	11 30	31	13 35	209	190	0 15	**19**	11 30	944	934	6 0	10	14	0	82·3
31	23 19	1084	1030	19 5	54	13 48	207	136	19 22	71	19 25	947	932	23 28	15	82	1	82·2
Mean	—	1071	1025	—	47	—	219	159	—	60	—	948	925	—	23	91	0·58	82·7
No. of Days used.	—	31	31	—	31	—	31	31	—	31	—	31	31	—	31	31	31	31

§ For explanation *see* p. 169. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

273. Eskdalemuir. (X.) 15,000 γ (·15 C.G.S. unit) + **February, 1931.**

Hour. G.M.T. Day.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1061	1056	1050	1052	1056	1054	1062	1063	1062	1058	1051	1046	1045	1044	1050	1053	1050	1052	1055	1056	1052	1050	1036	1036	1047	1052
2	1047	1051	1025	1040	1041	1046	1057	1056	1057	1041	1035	1038	1039	1038	1048	1047	1044	1044	1048	1052	1054	1051	1052	1047	1050	1046
3	1050	1051	1056	1060	1039	1074	1071	1061	1057	1057	1044	1040	1038	1039	1045	1049	1042	1045	1048	1049	1047	1052	1052	1051	1050	1051
4	1050	1049	1050	1053	1050	1052	1062	1064	1048	1030	1039	1036	1037	1045	1044	1044	1044	1049	1049	1053	1052	1058	1043	1042	1049	1048
5	1049	1060	1065	1052	1049	1054	1056	1059	1054	1048	1040	1037	1041	1049	1052	1056	1055	1056	1057	1058	1059	1053	1050	1052	1052	1053
6 Q	1052	1050	1049	1050	1053	1049	1056	1057	1054	1051	1044	1042	1041	1044	1050	1057	1059	1059	1056	1055	1054	1049	1048	1053	1056	1051
7	1056	1053	1053	1055	1058	1063	1065	1061	1056	1050	1035	1035	1043	1048	1056	1058	1059	1058	1061	1061	1061	1060	1061	1047	1047	1055
8	1047	1041	1047	1043	1047	1046	1055	1056	1052	1051	1053	1049	1049	1050	1050	1049	1050	1052	1056	1056	1054	1054	1056	1051	1050	1051
9	1050	1053	1056	1054	1055	1056	1057	1057	1053	1050	1054	1053	1052	1049	1046	1057	1054	1050	1050	1053	1057	1053	1054	1051	1053	1053
10 Q	1053	1057	1053	1049	1053	1053	1054	1057	1058	1056	1053	1053	1050	1054	1056	1054	1052	1053	1055	1058	1059	1058	1057	1056	1054	1055
11	1054	1053	1053	1053	1053	1054	1058	1061	1064	1051	1049	1048	1048	1049	1048	1047	1046	1052	1054	1054	1044	1045	1045	1046	1050	1051
12 Q	1050	1051	1051	1052	1053	1055	1056	1058	1058	1056	1053	1052	1051	1051	1051	1051	1050	1050	1052	1055	1054	1058	1057	1057	1059	1054
13 D	1059	1063	1054	1055	1060	1063	1063	1062	1070	1078	1080	1082	1083	1060	1055	1054	1045	1044	1045	1036	1042	1062	1059	1039	1044	**1059**
14 D	1044	1060	1043	1045	1022	1042	1060	1059	1053	1053	1036	1013	1041	1033	1022	1048	1039	1046	1047	1061	1055	1051	1060	1062	1046	1046
15 D	1046	1053	1044	1043	1042	1041	1046	1048	1047	1014	1037	1024	1022	1032	1042	1018	1028	1047	1034	1052	1062	1062	1055	1046	1047	1041
16	1047	1045	1054	1052	1047	1047	1047	1055	1053	1046	1044	1041	1042	1042	1040	1042	1047	1047	1050	1052	1052	1054	1055	1052	1052	1048
17	1052	1050	1048	1050	1050	1054	1055	1057	1057	1053	1041	1030	1033	1033	1039	1046	1049	1048	1052	1052	1058	1058	1060	1064	1056	1050
18	1056	1056	1052	1052	1052	1053	1057	1054	1053	1047	1039	1034	1041	1046	1051	1052	1052	1050	1047	1054	1056	1058	1057	1058	1061	1051
19	1061	1058	1057	1058	1057	1059	1060	1061	1059	1055	1043	1039	1039	1044	1047	1051	1054	1050	1036	1043	1052	1054	1055	1056	1059	1052
20 Q	1059	1062	1057	1047	1052	1056	1057	1054	1055	1054	1044	1039	1041	1045	1048	1050	1051	1053	1058	1058	1057	1057	1057	1056	1055	1053
21 Q	1055	1054	1054	1054	1056	1056	1054	1054	1053	1044	1041	1038	1041	1044	1047	1048	1052	1052	1054	1058	1058	1056	1056	1056	1057	1051
22	1057	1054	1054	1055	1055	1056	1056	1056	1054	1048	1038	1034	1034	1038	1040	1041	1051	1055	1055	1051	1053	1054	1054	1057	1055	1050
23	1055	1057	1056	1053	1054	1055	1057	1060	1057	1050	1041	1040	1035	1035	1041	1049	1046	1050	1053	1060	1060	1058	1058	1056	1051	1051
24 D	1051	1058	1057	1065	1060	1069	1065	1068	1050	1044	1040	1030	995	1012	1025	1038	1040	1036	1051	1025	1005	1020	1030	1033	1031	1040
25 D	1031	1032	1026	1031	1031	1035	1037	1037	1034	1033	1028	1026	1023	1027	1029	1030	1033	1026	1022	1021	1031	1026	1053	1037	1038	**1031**
26	1038	1041	1038	1028	1036	1040	1048	1046	1030	1030	1027	1024	1018	1020	1029	1038	1021	1040	1046	1046	1048	1046	1080	1046	1040	1038
27	1040	1040	1044	1050	1042	1044	1048	1048	1029	1040	1034	1022	1002	1013	1021	1032	1039	1048	1045	1049	1074	1046	1048	1057	1051	1040
28	1051	1049	1049	1040	1047	1053	1054	1049	1045	1041	1040	1039	1034	1034	1037	1038	1043	1049	1046	1049	1046	1052	1046	1049	1050	1045
Mean	1051	1052	1050	1050	1049	1053	1056	**1056**	1053	1047	1043	1039	**1038**	1040	1043	1046	1046	1049	1049	1051	1052	1052	1053	1051	1050	1049

TERRESTRIAL MAGNETIC FORCE: WEST COMPONENT.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

274. Eskdalemuir. (—Y.) 4,000 γ (·04 C.G.S. unit) + **February, 1931.**

Hour. G.M.T. Day.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	179	190	187	194	196	199	204	198	198	196	190	192	194	196	200	200	198	197	197	197	192	176	182	163	185	192
2	185	163	162	180	185	194	189	189	194	193	188	198	205	208	207	209	208	204	202	198	195	194	174	186	194	192
3	194	192	201	179	195	196	190	183	190	196	192	200	201	204	207	205	203	199	201	198	195	192	191	193	196	196
4	196	196	198	194	192	196	191	196	195	186	207	213	206	210	209	203	203	205	206	203	198	174	157	180	190	196
5	190	192	186	166	178	182	190	194	192	193	194	197	203	204	203	199	196	198	198	196	196	182	186	187	183	192
6 Q	183	188	190	192	191	190	187	187	190	192	194	198	204	208	207	204	203	203	202	202	201	194	192	194	193	196
7	193	192	192	194	195	192	190	192	192	191	195	207	219	223	218	215	207	203	203	202	201	200	179	170	172	198
8	172	170	168	168	172	181	186	186	189	191	200	198	207	201	201	198	198	198	198	196	196	192	184	184	185	189
9	185	190	190	194	190	191	192	194	196	197	203	207	210	209	207	205	205	199	200	199	198	190	185	190	188	197
10 Q	188	192	179	182	187	186	188	194	196	198	199	207	209	207	207	207	202	201	203	200	200	196	193	193	194	197
11	194	193	191	190	190	190	189	189	188	185	187	192	201	207	214	211	204	203	202	195	192	197	196	192	193	195
12 Q	193	193	194	193	193	194	194	192	192	191	193	199	204	206	207	207	202	201	197	194	196	196	194	193	187	196
13 D	188	183	179	194	181	178	184	204	207	208	212	218	232	223	216	219	217	211	184	183	171	151	124	157	185	193
14 D	185	212	197	179	202	210	215	203	202	202	199	195	204	215	187	201	207	177	191	171	194	175	171	204	177	196
15 D	177	179	193	198	202	197	199	195	197	193	192	205	189	206	206	182	187	176	175	161	180	179	177	182	198	189
16	198	209	195	191	198	197	193	196	191	188	193	201	203	207	210	206	201	198	196	195	194	195	195	192	191	197
17	191	191	192	193	195	194	195	197	196	192	191	197	209	208	210	206	203	197	188	192	195	189	192	193	191	196
18	191	196	197	191	193	192	193	191	191	191	190	192	198	206	213	205	199	197	188	197	199	196	195	195	189	196
19	189	191	193	193	193	192	192	191	191	191	192	199	209	214	213	211	204	202	193	191	193	191	193	192	192	196
20 Q	192	187	178	183	191	191	189	189	188	188	191	199	202	213	216	212	206	205	204	203	197	194	195	191	191	196
21 Q	191	194	194	195	194	192	191	189	185	184	185	191	201	212	217	212	202	199	197	197	197	195	188	191	191	196
22	191	192	191	191	191	191	191	191	190	189	190	197	209	216	217	208	202	200	199	189	197	194	193	194	191	196
23	191	195	188	185	187	185	189	185	184	187	193	199	213	218	222	212	201	198	198	198	197	196	187	171	185	195
24 D	185	167	188	180	170	166	200	174	175	172	181	194	199	238	261	262	282	244	260	244	177	164	143	158	178	**199**
25 D	178	193	189	185	181	181	180	180	179	179	179	191	202	214	224	228	231	233	212	219	209	166	179	161	121	194
26	121	125	161	175	173	183	188	192	189	187	183	195	204	207	222	220	202	204	200	196	193	187	167	175	175	**187**
27	175	175	181	170	182	187	184	185	184	195	194	206	208	218	218	216	201	192	196	169	158	190	189	186	187	190
28	187	189	185	194	190	186	185	185	187	185	186	189	192	197	202	204	200	196	191	193	190	191	191	187	185	191
Mean	185	187	187	187	189	190	191	191	191	191	193	199	205	211	**212**	210	206	201	199	196	193	187	**182**	184	185	194

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

275. Eskdalemuir. (Z.) 44,000 γ (·44 C.G.S. unit) + **February, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Mean.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	934	932	934	934	933	931	930	930	931	935	936	936	937	938	936	938	937	936	936	936	939	943	948	950	944	936
2	944	913	923	928	934	931	930	934	934	935	937	937	938	939	940	942	942	940	939	939	939	939	942	940	939	936
3	939	939	935	924	930	914	912	915	920	922	926	930	934	936	936	939	939	940	939	939	940	940	939	938	936	932
4	936	936	937	936	936	934	931	930	930	933	931	933	935	938	939	942	943	943	941	940	942	947	951	947	942	938
5	942	938	930	928	931	934	934	931	931	931	931	932	932	934	936	937	936	936	936	935	935	936	939	936	936	934
6 Q	936	936	936	938	938	936	935	934	931	930	930	930	931	934	934	935	935	935	935	935	935	937	939	936	931	935
7	931	934	935	935	934	931	931	931	931	931	931	930	930	930	931	935	936	936	935	935	934	935	938	942	939	934
8	939	939	940	942	940	938	934	931	931	930	927	930	929	930	930	933	934	934	934	934	934	934	935	935	935	934
9	935	933	929	927	930	931	931	930	930	930	926	926	928	930	931	932	934	935	936	935	934	933	935	933	933	931
10 Q	933	930	930	930	930	930	930	927	927	926	926	925	924	925	926	930	931	931	931	931	930	931	930	930	930	929
11	930	929	929	930	930	929	927	927	929	930	927	925	923	923	924	928	927	927	930	931	935	935	936	935	931	929
12 Q	931	930	930	928	927	926	926	926	926	925	922	922	923	922	921	926	927	930	930	930	930	930	930	930	930	927
13 D	930	923	923	922	918	921	921	918	914	913	909	906	905	911	915	920	927	939	950	958	957	936	887	905	917	**922**
14 D	917	905	896	897	900	896	901	910	915	918	923	930	934	933	943	946	946	950	943	941	934	936	933	898	901	922
15 D	901	913	918	915	913	914	913	918	920	926	926	926	932	935	939	959	965	961	955	951	935	926	918	920	917	929
16	917	896	904	917	918	919	922	923	924	927	926	926	927	929	931	931	931	930	930	930	927	927	927	929	929	924
17	929	930	930	928	927	926	924	923	922	926	926	929	930	930	930	931	935	939	938	934	931	930	930	927	926	929
18	926	924	926	927	927	926	926	926	926	929	931	930	930	926	927	934	933	935	935	931	930	927	927	927	927	929
19	927	927	927	927	927	926	926	924	923	926	925	922	922	924	927	931	934	934	937	938	934	931	930	930	926	928
20 Q	926	923	921	925	925	925	925	925	924	925	924	925	925	922	922	925	928	926	925	925	925	925	925	925	925	925
21 Q	925	925	925	925	925	925	925	924	925	926	929	925	926	925	925	929	929	928	927	926	925	925	926	925	925	926
22	925	925	925	925	925	925	925	924	924	924	925	925	920	918	923	928	929	926	926	929	929	929	928	926	926	925
23	926	923	924	925	925	925	924	922	921	921	921	921	920	917	914	921	928	929	926	925	925	925	926	929	928	923
24 D	928	923	916	908	912	911	888	882	896	907	909	912	919	922	925	937	981	999	1029	1070	1070	1015	972	959	952	**946**
25 D	952	946	946	944	943	942	938	938	938	937	935	931	930	929	935	942	951	964	982	971	967	981	963	944	874	946
26	874	887	908	912	921	926	925	922	925	926	929	925	921	922	926	944	955	946	939	937	935	935	926	926	929	926
27	929	929	929	930	929	929	929	926	929	926	922	926	930	929	929	933	937	940	938	938	935	929	929	928	926	930
28	926	925	925	923	922	924	924	925	924	925	921	920	921	921	920	921	924	926	929	929	930	930	929	929	926	925
Mean	928	925	926	926	927	926	925	**924**	925	926	926	926	927	928	929	934	938	939	940	**941**	940	937	933	931	928	930

DAILY EXTREMES OF EACH COMPONENT OF TERRESTRIAL MAGNETIC FORCE:

276. Eskdalemuir. MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **February, 1931.**

Day.	Terrestrial Magnetic Elements. North Component. Maximum 15000 γ +		Minimum 15000 γ +		Range.	West Component. Maximum 4000 γ +		Minimum 4000 γ +		Range.	Vertical Component. Maximum 44000 γ +		Minimum 44000 γ +		Range.	Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2)	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ			°A.
1	20 37	1072	1026	23 34	46	5 35	208	150	22 52	58	22 50	951	930	6 34	21	59	1	82·2
2	0 26	1078	1009	1 48	69	15 0	211	128	1 33	83	0 1	944	910	1 14	34	128	1	82·2
3	5 31	1079	1025	4 5	54	2 12	229	170	3 30	59	16 35	943	910	6 2	33	75	1	82·2
4	21 17	1081	1027	9 10	54	10 43	216	144	21 31	72	21 49	951	927	7 30	24	87	1	82·2
5	1 21	1071	1035	10 55	36	13 26	209	156	2 55	53	21 36	941	926	2 40	15	43	0	82·2
6 Q	16 12	1063	1040	12 25	23	13 10	210	183	0 1	27	22 0	939	930	9 0	9	13	0	82·1
7	5 42	1067	1028	10 16	39	13 20	230	162	23 2	68	23 6	943	929	11 41	14	63	0	82·1
8	22 12	1062	1035	1 31	27	11 50	213	161	2 12	52	2 45	943	926	10 1	17	37	0	82·1
9	1 24	1064	1042	14 4	22	13 4	215	176	21 26	39	17 28	938	926	10 10	12	21	1	82·1
10 Q	0 52	1062	1042	2 40	20	12 0	214	176	2 30	38	17 36	932	923	12 22	9	19	0	82·1
11	6 56	1063	1038	20 12	25	14 12	216	183	9 28	33	21 54	938	922	13 40	16	20	0	82·1
12 Q	23 15	1061	1047	16 35	**14**	13 34	211	189	{18 32 23 52	**22**	0 1	932	921	13 30	11	8	0	82·1
13 D	21 32	1132	997	21 58	135	11 45	251	**49**	21 37	**202**	19 34	965	875	21 50	90	671	2	82·1
14 D	22 41	**1136**	987	13 50	**149**	22 59	232	138	22 32	94	16 50	951	886	23 10	65	353	1	82·1
15 D	20 15	1092	989	14 54	103	12 58	217	141	19 3	76	16 19	970	901	0 1	69	211	1	81·9
16	1 22	1071	1018	0 35	53	0 30	236	177	9 6	59	14 31	934	892	1 0	42	81	1	81·9
17	23 14	1080	1026	10 49	54	13 42	214	170	17 35	44	16 53	939	921	7 40	18	52	1	81·9
18	0 23	1071	1025	10 36	46	14 20	224	183	17 42	41	17 49	937	921	0 40	16	41	0	81·9
19	23 43	1069	1009	17 35	60	14 35	218	181	18 33	37	18 48	939	921	11 40	18	53	0	81·9
20 Q	0 31	1066	1036	10 45	30	13 21	223	169	2 20	54	15 50	928	921	13 20	7	39	0	81·9
21 Q	23 44	1065	1035	10 51	30	14 3	219	179	9 42	40	16 20	929	924	7 18	**5**	25	0	81·9
22	23 17	1060	1031	11 24	29	14 15	218	172	19 17	46	19 29	933	917	12 50	16	32	0	81·8
23	21 45	1065	1028	12 54	37	13 14	225	164	22 30	61	22 40	929	913	13 32	16	53	0	81·9
24 D	6 20	1107	**984**	12 4	123	15 40	**313**	133	22 9	180	19 30	**1088**	866	6 27	**222**	968	2	81·8
25 D	23 36	1076	1004	18 18	72	16 49	244	103	24 0	141	17 42	989	865	24 0	124	404	1	81·8
26	21 46	1125	995	15 46	130	14 24	237	80	0 22	157	15 44	956	**848**	0 10	108	532	1	81·8
27	19 39	1098	989	12 18	109	13 17	226	117	19 30	109	19 30	942	921	11 0	21	242	1	81·7
28	21 22	1068	1031	12 33	37	14 12	213	177	9 33	36	20 33	932	918	11 0	14	29	1	81·7
Mean	—	1079	1021	—	58	—	225	154	—	71	—	948	910	—	38	156	0·61	82·0
No. of Days used.	—	28	28	—	28	—	28	28	—	28	—	28	28	—	28	28	28	28

§ For explanation *see* page 169. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

277. Eskdalemuir. (X.) 15,000 γ (·15 C.G.S. unit) + **March, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1050	1048	1049	1048	1056	1050	1052	1058	1053	1049	1034	1034	1043	1036	1038	1039	1044	1049	1054	1058	1057	1054	1053	1055	1055	1048
2	1055	1055	1054	1054	1055	1054	1055	1059	1058	1054	1049	1046	1034	1045	1048	1052	1033	1034	1034	1038	1042	1045	1068	1059	1050	1049
3	1050	1051	1053	1053	1038	1072	1049	1059	1038	1034	1038	1030	1030	1036	1037	1034	1044	1043	1040	1045	1057	1065	1062	1053	1057	1046
4	1057	1050	1049	1049	1053	1057	1053	1052	1051	1044	1034	1028	1028	1033	1039	1048	1052	1052	1057	1057	1057	1058	1061	1073	1059	1050
5	1059	1053	1051	1052	1055	1053	1056	1057	1054	1049	1039	1034	1027	1032	1040	1049	1054	1048	1053	1058	1059	1060	1059	1058	1057	1050
6 Q	1057	1053	1054	1054	1058	1058	1059	1059	1062	1040	1029	1025	1015	1024	1034	1043	1052	1051	1054	1058	1054	1057	1058	1058	1057	1049
7	1057	1055	1057	1057	1058	1059	1061	1063	1054	1040	1037	1027	1021	1021	1028	1039	1049	1048	1055	1059	1063	1068	1066	1063	1078	1051
8	1078	1062	1062	1054	1056	1058	1061	1068	1060	1048	1040	1027	1026	1033	1027	1048	1060	1062	1063	1057	1052	1048	1057	1057	1077	1053
9	1077	1047	1055	1048	1058	1061	1057	1064	1057	1051	1036	1026	1017	1023	1032	1038	1050	1052	1046	1044	1052	1067	1065	1055	1057	1049
10	1057	1056	1056	1052	1054	1056	1057	1057	1049	1041	1032	1031	1029	1032	1043	1054	1055	1031	1057	1067	1065	1063	1066	1062	1061	1051
11 Q	1061	1057	1056	1057	1054	1056	1058	1057	1058	1044	1037	1034	1027	1029	1038	1049	1056	1057	1059	1063	1063	1063	1062	1062	1068	1053
12 D	1068	1078	1063	1062	1066	1067	1066	1062	1057	1050	1034	1034	1031	1033	1042	1045	1052	1062	1072	1055	1056	1050	1061	1061	1050	1055
13 D	1050	1037	1045	1049	1050	1048	1047	1050	1055	1044	1033	1024	1011	1026	1036	1049	1054	1040	1058	1091	1061	1046	1037	1071	1027	1046
14 D	1027	1026	1042	1045	1044	1051	1057	1046	1051	1026	1021	1016	1021	1018	1024	1037	1047	1043	1041	1050	1052	1057	1057	1061	1056	**1041**
15	1056	1058	1049	1049	1051	1054	1052	1056	1050	1042	1033	1027	1022	1018	1036	1046	1052	1055	1057	1060	1060	1060	1061	1060	1071	1049
16	1071	1061	1052	1051	1052	1056	1057	1052	1047	1044	1031	1010	1004	1015	1027	1036	1047	1056	1060	1062	1064	1061	1061	1061	1060	1047
17	1060	1061	1060	1061	1057	1059	1061	1065	1061	1046	1031	1021	1015	1016	1020	1027	1042	1047	1056	1056	1055	1060	1061	1061	1060	1048
18 Q	1060	1061	1059	1060	1060	1061	1064	1062	1059	1049	1033	1021	1026	1030	1038	1045	1054	1059	1060	1060	1060	1061	1060	1060	1060	1053
19 Q	1060	1060	1059	1059	1060	1064	1063	1060	1054	1043	1027	1019	1019	1025	1031	1041	1049	1055	1060	1057	1062	1060	1061	1061	1060	1050
20	1060	1060	1063	1061	1064	1064	1065	1064	1060	1047	1040	1030	1025	1022	1034	1044	1050	1064	1071	1075	1076	1074	1070	1057	1061	**1056**
21 D	1061	1059	1057	1070	1067	1072	1066	1066	1055	1046	1031	1018	1015	1006	1038	1034	1042	1045	1050	1053	1056	1055	1060	1052	1052	1049
22	1052	1060	1040	1059	1049	1047	1051	1054	1045	1036	1030	1027	1026	1028	1036	1046	1051	1055	1056	1055	1055	1054	1052	1030	1045	1045
23	1045	1051	1049	1049	1040	1052	1049	1046	1038	1029	1025	1025	1027	1032	1038	1041	1049	1056	1050	1059	1059	1047	1045	1050	1051	1044
24	1051	1047	1040	1055	1051	1054	1060	1049	1049	1036	1030	1025	1023	1020	1029	1041	1045	1055	1055	1053	1054	1053	1053	1054	1053	1045
25	1053	1054	1059	1060	1057	1056	1060	1062	1048	1035	1030	1020	1027	1036	1037	1050	1052	1054	1061	1044	1036	1043	1049	1058	1054	1048
26 D	1054	1075	1055	1044	1050	1050	1044	1047	1054	1046	1039	1034	1019	1030	1018	1035	1049	1046	1053	1056	1056	1055	1055	1054	1064	1047
27	1064	1060	1050	1056	1055	1046	1055	1061	1059	1049	1030	1021	1019	1026	1035	1045	1045	1052	1059	1051	1054	1054	1063	1050	1052	1048
28	1052	1050	1051	1054	1045	1057	1055	1051	1039	1036	1031	1029	1038	1044	1051	1057	1059	1057	1051	1055	1064	1062	1061	1060	1064	1051
29	1064	1055	1052	1055	1056	1059	1067	1064	1054	1047	1041	1031	1032	1036	1044	1049	1051	1051	1055	1060	1064	1051	1064	1055	1054	1052
30 Q	1054	1055	1055	1055	1056	1056	1057	1051	1049	1045	1040	1035	1035	1040	1051	1059	1060	1055	1056	1058	1056	1059	1059	1060	1059	1052
31	1059	1059	1059	1060	1063	1064	1065	1063	1056	1045	1038	1026	1025	1029	1020	1046	1055	1053	1056	1060	1060	1062	1060	1060	1060	1052
Mean	1057	1055	1053	1055	1054	1057	1057	1058	1053	1043	1034	1027	**1024**	1028	1035	1044	1050	1051	1055	1057	1057	1057	**1059**	1058	1058	1049

TERRESTRIAL MAGNETIC FORCE: WEST COMPONENT.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

278. Eskdalemuir. (—Y.) 4,000 γ (·04 C.G.S. unit) + **March, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	185	189	184	184	191	187	184	185	187	186	193	193	205	213	211	209	203	197	196	197	197	195	192	193	191	194
2	191	191	189	189	187	186	190	191	191	188	196	204	206	211	217	223	215	198	204	206	199	193	185	192	191	**198**
3	191	194	195	184	222	184	170	174	174	187	198	201	208	214	222	215	208	197	182	193	187	188	186	178	180	194
4	180	184	184	189	183	180	180	183	179	179	183	193	203	207	207	203	198	191	197	197	195	197	198	184	184	191
5	184	186	192	190	187	190	190	187	186	182	185	200	214	226	231	221	210	195	193	178	182	191	191	191	191	195
6 Q	191	193	195	195	192	190	187	184	184	182	188	195	205	212	216	210	201	193	192	191	187	186	184	189	194	194
7	194	194	196	197	196	194	190	186	183	177	179	188	206	215	220	218	208	201	198	199	198	198	195	190	188	197
8	188	188	187	185	188	185	188	183	181	177	184	188	202	220	221	219	214	209	209	204	188	191	191	182	202	195
9	202	171	183	180	185	183	181	180	179	173	177	187	205	220	224	218	212	202	194	195	192	185	186	188	190	191
10	190	187	188	189	192	192	191	186	183	181	185	194	202	211	216	222	228	207	204	207	204	198	179	179	183	196
11 Q	183	188	193	190	190	193	190	187	185	185	191	195	204	206	207	206	200	194	197	195	200	199	198	194	189	195
12 D	189	185	195	187	189	192	188	184	179	179	182	200	208	214	219	216	206	206	209	203	183	147	128	170	165	189
13 D	165	210	199	190	200	198	196	186	186	185	194	203	206	210	216	212	206	190	192	112	137	169	183	159	141	187
14 D	141	176	179	175	181	190	192	181	179	173	192	194	205	214	208	206	201	192	185	194	196	192	186	183	206	189
15	206	194	185	185	185	188	190	188	185	185	181	188	200	199	207	208	200	186	192	193	193	192	192	192	188	192
16	188	185	185	185	192	192	185	181	179	177	180	194	206	213	218	215	206	199	194	194	194	194	194	193	192	194
17	192	194	193	194	194	192	187	185	173	167	171	184	199	214	214	214	208	195	194	186	184	192	193	193	193	192
18 Q	193	198	194	194	193	192	188	185	177	173	179	192	204	216	216	212	204	197	195	197	195	196	194	195	194	195
19 Q	194	196	196	197	197	192	186	179	170	165	172	190	205	217	221	219	206	196	194	185	186	190	190	194	194	193
20	194	194	199	191	192	190	186	183	175	171	176	188	206	214	219	219	208	207	204	206	210	204	202	199	163	197
21 D	163	152	167	161	154	163	177	177	175	173	182	196	224	236	249	229	217	202	198	199	200	144	161	156	157	185
22	157	179	190	173	171	179	186	175	173	175	183	192	204	212	215	211	204	199	199	201	199	185	189	159	160	188
23	160	163	172	172	183	188	175	174	177	174	182	196	200	208	210	204	199	196	194	196	194	196	194	185	178	187
24	178	176	179	163	165	163	166	167	167	174	181	192	210	214	216	213	201	198	194	190	192	189	188	188	185	186
25	185	177	174	175	174	167	168	172	166	185	182	195	206	216	208	207	202	198	196	181	188	168	153	183	174	**184**
26 D	174	171	134	164	177	173	174	185	178	175	181	198	198	220	215	201	203	197	196	195	194	192	189	185	181	186
27	181	194	186	179	179	184	191	185	179	179	185	193	209	210	212	208	200	198	196	192	192	180	181	192	188	191
28	188 ~~218~~	204	175	175	191	187	181	177	177	177	181	192	204	211	208	200	197	194	193	195	177	188	185	188	188	190
29	188	184	179	185	175	184	177	179	180	175	172	185	197	204	210	202	199	192	191	185	186	184	194	190	190	187
30 Q	190	190	188	188	185	186	184	177	174	172	176	187	206	214	212	202	194	186	186	185	187	192	192	194	192	189
31	192	191	190	190	190	190	192	181	174	169	179	190	214	234	226	218	208	197	190	192	191	192	192	192	194	195
Mean	184	186	185	184	186	186	184	182	178	**177**	183	193	206	214	**216**	212	205	197	195	192	191	187	186	185	184	191

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

279. Eskdalemuir. (Z.) 44,000 γ (·44 C.G.S. unit) + **March, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1 D	926	926	922	923	917	917	920	918	920	921	917	915	916	919	921	922	925	926	926	926	926	929	929	929	929	922
2 D	928	925	925	925	925	925	924	924	923	922	920	917	919	917	920	926	937	946	945	943	942	941	934	918	922	**928**
3	922	925	925	925	913	886	902	907	912	913	912	912	913	916	919	924	928	931	935	933	929	921	919	916	920	918
4	919	919	919	919	919	919	919	919	919	920	919	918	915	916	916	919	923	923	920	920	920	920	919	915	908	919
5	908	912	916	919	919	919	919	916	916	919	918	911	911	914	915	920	924	927	924	926	923	920	920	919	919	918
6 Q	919	920	920	919	919	919	919	919	918	919	918	915	915	914	915	922	924	924	924	923	923	924	923	919	919	920
7	919	920	920	920	920	920	920	920	920	919	915	915	915	915	915	916	921	925	923	920	919	917	918	919	915	919
8	915	911	908	915	916	918	917	919	919	919	915	915	912	907	907	915	919	920	923	923	931	927	923	922	906	917
9	905	902	908	911	908	907	911	914	915	915	917	914	909	910	903	920	926	928	931	929	926	919	914	914	914	915
10	914	914	914	914	915	917	918	918	919	918	913	908	906	906	908	914	927	931	926	917	919	918	921	918	915	916
11 Q	915	913	912	913	914	914	914	914	914	914	913	911	907	908	911	914	914	916	914	915	915	915	915	914	914	913
12 D	913	905	905	908	908	909	909	910	913	910	909	904	901	901	901	905	909	910	913	918	928	932	909	892	890	909
13 D	890	891	884	903	899	896	904	910	913	913	913	910	909	913	913	917	925	928	925	934	922	917	907	870	874	908
14 D	874	881	883	900	904	905	905	908	910	912	908	905	905	909	918	919	923	927	928	922	918	917	917	914	910	910
15	910	904	905	906	909	909	909	913	915	916	913	912	910	913	914	918	921	921	918	917	917	916	916	916	913	913
16	913	912	913	913	913	913	913	913	917	917	909	906	905	908	908	913	917	916	913	913	913	913	913	913	913	912
17	912	909	908	905	904	905	907	909	912	913	908	903	903	903	908	912	916	916	916	917	917	913	912	911	912	910
18 Q	912	909	909	908	908	909	908	909	912	909	908	907	903	903	907	911	912	912	911	909	909	909	909	909	909	909
19 Q	908	908	908	908	907	907	907	910	911	911	905	899	897	898	902	906	910	911	909	911	911	910	909	908	907	907
20	907	907	905	906	906	906	906	906	907	906	902	898	893	894	899	907	911	908	906	903	903	902	906	908	900	904
21 D	900	903	906	902	902	899	898	899	902	898	894	893	891	895	906	924	921	920	919	916	914	920	908	900	894	905
22	894	876	873	872	890	894	894	894	894	894	890	886	885	889	895	902	907	908	907	907	906	910	911	905	896	**895**
23	895	893	898	902	898	886	897	902	902	901	901	901	893	893	897	903	907	912	911	910	910	913	913	910	907	902
24	907	910	910	898	901	901	901	901	901	898	894	894	896	898	901	906	910	912	911	914	910	910	909	907	909	904
25	908	906	904	904	903	900	900	893	892	891	893	896	895	896	900	901	908	910	914	921	924	918	917	910	908	904
26 D	908	867	879	893	900	904	904	900	900	901	897	894	893	895	901	904	905	906	905	905	906	906	906	907	906	899
27	906	896	895	897	900	893	887	892	896	897	895	893	893	896	900	908	909	909	909	913	913	913	909	909	907	901
28	907	893	893	899	898	896	900	901	904	900	900	897	897	897	900	904	908	909	909	909	909	906	906	906	902	902
29	901	891	896	899	899	894	888	891	895	897	897	891	890	894	898	901	907	908	908	909	908	908	905	902	903	899
30	903	903	904	903	903	903	903	905	905	904	901	895	887	887	893	900	905	908	905	904	904	904	904	904	904	902
31	904	904	903	903	901	900	900	902	903	903	895	887	879	887	893	899	904	908	908	905	905	904	904	903	903	900
Mean	909	905	905	907	908	906	907	908	910	909	907	904	**902**	904	907	912	916	**918**	917	917	917	916	914	910	908	910

DAILY EXTREMES OF EACH COMPONENT OF TERRESTRIAL MAGNETIC FORCE:

280. Eskdalemuir. MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **March, 1931.**

Day.	Terrestrial Magnetic Elements. North Component. Maximum 15000 γ +		Minimum 15000 γ +		Range.	West Component. Maximum 4000 γ +		Minimum 4000 γ +		Range.	Vertical Component. Maximum 44000 γ +		Minimum 44000 γ +		Range.	Character Figure ΣR²/100γ² §	Magnetic Character of Day (0–2)	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ			°A.
1	19 17	1062	1028	10 38	34	13 0	222	177	3 6	45	22 30	930	914	11 16	16	34	0	81·7
2	22 32	1084	1015	16 44	69	15 29	232	176	22 3	56	16 52	**949**	916	11 15	33	90	1	81·7
3	22 9	1083	1023	12 0	60	4 10	244	155	5 30	89	18 16	937	882	4 53	55	145	1	81·7
4	23 12	1087	1025	11 10	62	22 6	211	172	22 33	39	16 10	924	907	23 31	17	57	0	81·7
5	19 15	1064	1017	12 7	47	13 23	237	164	19 0	73	16 32	928	907	0 18	21	80	0	81·7
6 Q	22 10	1063	1008	12 28	55	14 6	217	178	8 52	39	16 4	925	913	13 32	12	47	0	81·5
7	20 50	1078	1012	12 20	66	14 9	227	175	9 10	52	16 42	927	914	13 55	13	72	1	81·5
8	23 42	1097	1021	11 41	76	13 16	231	171	23 33	60	20 0	933	903	24 0	30	103	1	81·4
9	0 10	1080	1006	12 10	74	14 20	232	160	0 53	72	18 0	931	893	0 23	38	121	1	81·5
10	16 4	1095	1007	16 32	88	16 5	251	166	22 2	85	17 58	934	905	11 50	29	158	1	81·5
11 Q	19 4	1068	1026	12 20	42	14 0	209	179	0 30	**30**	16 35	917	906	12 20	11	28	0	81·3
12 D	22 17	1096	1015	21 44	81	14 25	232	103	21 48	129	20 33	940	886	23 28	54	261	1	81·3
13 D	19 24	**1161**	**991**	11 6	**170**	1 20	**259**	**65**	19 10	**194**	19 19	938	865	23 11	**73**	719	2	81·3
14 D	22 45	1075	1010	11 0	65	12 55	219	130	0 26	89	17 37	930	874	0 1	56	153	1	81·3
15	23 47	1084	1009	12 53	75	0 3	225	179	{1 42 {4 0	46	16 20	922	904	2 30	18	81	1	81·3
16	0 35	1070	996	11 29	74	14 20	220	171	9 15	49	6 20	917	904	11 34	13	80	0	81·3
17	6 47	1066	1007	12 35	59	14 47	220	165	9 53	55	19 40	917	902	11 10	15	67	0	81·1
18 Q	20 48	1065	1019	10 52	46	13 44	219	171	9 0	48	16 2	912	903	12 34	**9**	45	0	81·1
19 Q	22 22	1065	1017	11 30	48	14 33	223	164	9 0	59	19 30	912	896	12 0	16	60	0	81·1
20	19 58	1083	1018	12 55	65	23 13	226	159	24 0	67	16 18	912	890	12 22	22	92	1	81·1
21 D	21 28	1079	995	12 30	84	14 20	253	111	21 18	142	14 52	924	890	11 55	34	284	1	81·1
22	0 26	1077	1020	22 54	57	13 50	218	146	23 2	72	21 55	914	863	2 32	51	110	1	81·1
23	19 50	1073	1024	11 24	49	13 50	212	153	0 4	59	17 20	914	884	4 50	30	68	1	81·1
24	5 53	1065	1017	12 49	48	14 20	220	158	5 1	62	19 0	914	893	9 51	21	66	1	81·1
25	17 48	1070	1014	11 0	56	12 57	218	133	21 41	85	19 52	925	890	9 10	35	116	1	81·1
26 D	0 41	1119	1009	11 46	110	12 58	237	124	1 19	113	23 52	909	**858**	1 9	51	275	1	81·1
27	0 23	1074	1014	12 9	60	11 58	218	170	3 35	48	20 52	915	886	5 45	29	67	1	81·1
28	19 53	1075	1029	10 58	46	13 40	213	167	3 10	46	20 25	910	887	1 20	23	48	1	81·1
29	22 0	1084	1026	10 52	58	14 13	216	167	9 48	49	21 20	911	887	5 38	24	63	1	81·1
30 Q	15 46	1063	1034	11 13	**29**	12 45	216	171	9 9	45	16 40	908	886	12 20	22	33	0	81·1
31	16 12	1069	1009	13 50	60	13 6	245	168	8 50	77	17 10	909	878	11 49	31	105	1	81·1
Mean	—	1080	1015	—	65	—	227	156	—	70	—	922	893	—	29	120	0·71	81·3
No. of Days used.	—	31	31	—	31	—	31	31	—	31	—	31	31	—	31	31	31	31

§ For explanation *see* page 169. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

281. Eskdalemuir. (X.) 15,000 γ (·15 C.G.S. unit) + **April, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1 D	1060	1060	1059	1060	1060	1060	1060	1059	1054	1044	1032	1029	1034	1040	1045	1050	1049	1051	1058	1050	1055	1060	1060	1059	1051	1052
2	1051	1062	1046	1051	1055	1057	1056	1052	1046	1038	1020	1009	1024	1034	1046	1054	1061	1061	1063	1066	1064	1067	1067	1070	1074	1051
3 D	1074	1070	1067	1066	1063	1063	1059	1052	1050	1039	1030	1015	1019	1029	1045	1055	1050	1055	1049	1045	1043	1045	1058	1059	1050	1049
4	1050	1047	1050	1051	1051	1053	1054	1050	1047	1035	1022	1015	1015	1023	1025	1034	1049	1057	1063	1061	1053	1056	1049	1053	1065	1045
5	1065	1065	1055	1060	1058	1053	1055	1055	1059	1034	1019	1015	1021	1029	1028	1045	1054	1055	1060	1060	1060	1060	1059	1060	1060	1049
6 Q	1060	1060	1060	1060	1060	1061	1064	1063	1055	1047	1031	1023	1015	1021	1023	1035	1049	1058	1065	1067	1066	1065	1064	1064	1065	1052
7	1065	1061	1060	1060	1060	1062	1064	1065	1061	1049	1035	1026	1025	1030	1040	1049	1056	1061	1069	1068	1070	1066	1070	1064	1070	1056
8	1070	1070	1064	1064	1065	1065	1066	1066	1064	1058	1040	1029	1025	1030	1042	1049	1052	1059	1069	1071	1071	1070	1072	1075	1076	1059
9	1076	1067	1062	1061	1069	1069	1069	1065	1055	1045	1032	1030	1024	1036	1040	1055	1050	1066	1070	1075	1079	1076	1077	1089	1078	1060
10 D	1078	1069	1061	1054	1080	1070	1062	1063	1040	1027	1025	1019	1015	1015	1031	1042	1054	1057	1075	1060	1060	1055	1059	1056	1067	1051
11	1067	1056	1055	1054	1055	1057	1057	1053	1036	1025	1026	1012	1005	1021	1019	1034	1048	1065	1073	1064	1056	1059	1059	1059	1059	1046
12 Q	1059	1054	1054	1055	1054	1054	1054	1052	1048	1040	1030	1024	1020	1024	1030	1039	1044	1054	1058	1060	1060	1060	1060	1059	1059	1048
13 Q	1059	1055	1055	1055	1055	1056	1058	1058	1046	1050	1040	1034	1029	1034	1039	1049	1041	1051	1060	1063	1060	1060	1059	1060	1060	1052
14 Q	1060	1060	1060	1060	1060	1060	1060	1057	1054	1045	1030	1025	1025	1034	1041	1048	1050	1052	1057	1064	1068	1066	1071	1070	1062	1053
15	1062	1062	1063	1064	1064	1065	1060	1058	1054	1044	1030	1024	1030	1032	1041	1047	1055	1060	1065	1065	1061	1062	1065	1065	1069	1054
16	1069	1071	1071	1062	1061	1065	1066	1061	1059	1047	1030	1022	1022	1030	1039	1051	1061	1066	1075	1072	1072	1075	1076	1078	1074	1058
17	1074	1071	1075	1071	1068	1070	1069	1066	1054	1046	1031	1031	1033	1040	1047	1054	1059	1064	1071	1075	1074	1075	1076	1076	1067	**1061**
18	1067	1062	1066	1075	1085	1081	1058	1056	1050	1043	1021	1025	1018	1022	1040	1051	1051	1069	1067	1061	1065	1067	1061	1063	1063	1055
19 D	1063	1060	1058	1060	1056	1057	1058	1051	1046	1035	1027	1026	1024	1031	1057	1070	1072	1076	1072	1061	1072	1046	1038	1040	1056	1052
20 D	1056	1051	1060	1048	1051	1056	1047	1041	1021	1013	981	975	1009	1020	1026	1036	1041	1056	1060	1061	1061	0161	1060	1057	1056	**1039**
21	1056	1060	1056	1056	1056	1056	1056	1056	1051	1042	1026	1026	1024	1034	1042	1055	1063	1066	1069	1071	1069	1062	1064	1062	1066	1053
22	1066	1065	1060	1064	1056	1051	1060	1047	1041	1032	1026	1016	1019	1029	1038	1046	1056	1061	1056	1061	1063	1062	1061	1061	1066	1050
23	1066	1065	1060	1056	1055	1055	1054	1056	1052	1046	1031	1022	1020	1021	1027	1047	1059	1057	1060	1063	1064	1061	1065	1066	1076	1051
24	1076	1070	1061	1057	1060	1060	1060	1054	1046	1036	1026	1021	1021	1025	1031	1040	1054	1061	1069	1067	1066	1066	1066	1069	1075	1053
25	1075	1065	1061	1060	1060	1061	1060	1056	1058	1051	1038	1031	1026	1036	1041	1050	1069	1070	1076	1072	1071	1071	1075	1071	1066	1058
26	1066	1066	1062	1067	1067	1058	1053	1051	1045	1037	1032	1035	1032	1032	1034	1047	1056	1062	1067	1067	1071	1063	1058	1061	1068	1054
27	1068	1056	1056	1056	1057	1057	1057	1056	1055	1045	1036	1032	1031	1041	1047	1056	1061	1059	1061	1060	1061	1062	1062	1062	1061	1054
28	1061	1060	1057	1061	1061	1059	1060	1062	1061	1053	1037	1027	1027	1041	1048	1050	1057	1067	1062	1067	1071	1072	1072	1072	1070	1057
29 Q	1070	1064	1062	1062	1062	1058	1057	1057	1052	1043	1033	1027	1027	1033	1042	1049	1056	1058	1066	1066	1065	1062	1062	1064	1064	1054
30	1064	1066	1068	1061	1062	1062	1061	1058	1054	1050	1036	1034	1028	1032	1042	1047	1052	1058	1067	1066	1066	1062	1063	1062	1064	1055
Mean	1065	1062	1060	1060	1061	1060	1059	1057	1051	1041	1028	**1023**	1023	1030	1038	1048	1054	1060	1065	1064	1065	1063	1064	1064	**1065**	1053

TERRESTRIAL MAGNETIC FORCE: WEST COMPONENT.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

282. Eskdalemuir. (—Y.) 4,000 γ (·04 C.G.S. unit) + **April, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1 D	194	191	191	189	187	185	183	173	166	165	172	187	208	225	224	219	211	203	200	165	172	191	191	181	172	190
2	172	173	171	183	185	179	178	173	169	167	179	192	202	216	219	213	205	199	193	193	193	185	192	192	194	189
3	194	191	191	187	185	181	173	177	172	167	179	192	206	215	215	219	211	199	201	194	198	167	169	178	190	190
4	190	186	187	186	185	185	180	172	166	160	167	178	194	216	213	207	200	196	172	172	185	183	173	172	191	184
5	191	173	187	175	175	184	181	173	165	159	171	185	204	216	220	211	205	193	191	191	192	192	192	191	191	188
Q	191	191	190	191	190	187	187	179	171	169	167	177	193	216	218	213	214	200	194	193	192	192	192	191	185	**191**
7	185	187	187	185	185	185	185	178	165	165	171	182	197	212	217	211	205	201	200	199	199	196	184	186	187	190
8	187	187	184	185	184	185	184	179	173	169	171	179	192	206	219	219	212	201	200	199	199	192	192	181	171	190
9	171	177	172	168	172	172	172	167	171	172	179	185	191	213	214	217	205	205	207	207	206	200	195	179	175	188
10 D	175	173	179	183	169	153	166	173	165	165	179	191	206	222	223	219	213	197	198	174	175	175	191	191	191	186
11	191	187	185	185	179	178	173	172	172	181	185	192	206	219	219	199	199	197	192	185	176	192	192	192	191	189
12 Q	191	187	185	185	181	179	177	172	166	171	173	181	192	205	206	203	197	192	189	187	187	186	185	191	191	186
13 Q	191	191	187	186	183	180	177	171	165	164	172	180	191	199	200	198	186	189	190	191	191	191	191	191	191	186
14 Q	191	189	187	185	185	180	179	172	165	165	171	181	195	206	211	208	206	205	200	198	193	193	191	187	185	189
15	185	185	185	181	179	174	175	175	171	169	177	181	193	205	214	211	206	205	199	194	187	180	187	186	189	188
16	189	192	191	184	183	179	175	171	165	159	165	173	191	204	211	206	205	199	204	199	199	198	198	194	192	189
17	192	187	191	185	185	175	172	166	166	166	173	190	205	216	217	207	205	201	193	195	198	198	187	191	191	190
18	191	191	185	185	158	152	156	165	165	165	167	185	203	219	221	220	207	205	192	184	184	167	191	191	191	185
19 D	191	193	191	185	179	178	172	171	165	161	171	183	198	209	225	231	225	213	204	199	145	145	146	169	134	**184**
20 D	134	160	160	145	173	166	164	160	177	173	181	202	207	217	219	214	207	200	194	192	190	188	190	188	186	184
21	186	186	186	182	182	180	174	165	161	155	167	177	196	212	214	209	205	200	198	197	197	188	188	188	187	187
22	187	186	182	185	175	169	174	162	166	167	173	181	197	206	210	206	206	202	195	192	188	187	186	184	204	186
23	204	186	174	174	179	174	174	173	170	172	176	180	192	206	208	209	210	203	194	192	189	188	189	181	186	187
24	186	168	166	167	166	167	166	166	165	166	167	178	192	206	212	207	207	206	203	199	197	194	193	186	178	184
25	178	180	180	178	176	169	166	167	161	161	167	181	192	212	214	213	216	218	211	206	187	188	194	186	186	188
26	186	186	181	180	179	168	179	168	180	182	188	194	194	200	200	195	196	200	200	194	193	192	186	182	174	187
27	174	176	190	178	176	174	173	174	174	173	178	188	196	200	201	200	199	195	193	188	187	188	187	188	188	186
28	188	187	186	186	181	179	174	173	166	167	174	186	200	215	213	199	193	192	187	190	192	192	184	192	187	187
29 Q	187	186	186	182	179	175	173	167	166	166	178	192	198	202	200	195	193	192	192	190	188	188	187	187	186	185
30	186	188	182	180	179	172	166	160	161	172	180	194	200	206	206	200	194	193	193	188	187	186	186	186	188	185
Mean	185	184	183	181	179	175	174	171	168	**167**	174	185	198	211	**213**	209	205	200	196	192	189	187	187	186	185	187

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

283. Eskdalemuir. (Z.) 44,000 γ (·44 C.G.S. unit) + **April, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1 D	903	904	903	903	901	901	903	905	904	903	899	895	890	891	896	903	908	913	917	934	925	913	911	909	908	906
2	907	901	903	903	903	903	903	904	904	902	894	889	883	883	887	894	898	899	901	902	903	903	903	902	899	899
3 D	899	898	899	899	898	899	902	902	898	898	892	886	885	885	890	902	916	932	933	938	937	940	920	908	907	**907**
4	907	907	907	907	907	907	907	907	907	903	899	897	891	890	898	903	900	908	916	919	911	908	904	900	889	904
5	889	889	889	889	895	898	899	903	903	898	890	888	885	886	893	899	902	903	903	902	901	901	901	901	901	896
6 Q	901	901	902	902	902	902	900	903	903	901	898	894	890	889	890	895	899	904	907	904	902	902	901	900	899	900
7	899	899	899	900	902	902	902	899	899	897	890	886	880	878	885	890	894	898	898	898	898	898	899	899	895	895
8	895	887	893	895	896	896	897	898	898	896	894	890	883	877	877	886	894	899	900	899	898	899	898	898	894	893
9	894	894	895	895	894	894	894	895	894	891	893	891	886	882	886	888	894	898	900	898	898	899	900	898	898	894
10 D	898	895	893	874	859	864	881	886	890	890	886	886	883	883	889	897	902	907	911	915	915	911	902	883	885	**891**
11	885	892	895	898	898	899	901	900	898	896	894	894	892	900	906	915	912	907	905	907	911	904	903	900	900	901
12 Q	900	901	902	902	902	902	902	903	898	898	894	891	889	889	894	899	899	899	902	903	902	902	902	899	898	899
13 Q	898	898	898	898	898	899	898	901	897	893	889	889	887	885	889	894	898	897	897	897	897	898	898	898	897	895
14 Q	897	897	897	897	897	897	897	901	899	894	888	884	879	879	885	893	897	900	901	899	899	899	896	892	894	894
15	894	894	897	897	897	897	897	893	893	888	888	885	880	877	881	889	893	898	902	905	906	905	901	897	897	894
16	897	894	893	894	894	896	897	898	897	896	893	889	884	883	888	893	896	897	897	897	894	894	894	894	897	894
17	897	897	894	893	893	893	893	893	892	888	885	884	880	883	888	892	897	897	897	897	897	897	897	894	893	892
18	893	894	893	883	872	879	881	885	889	888	889	885	882	883	888	897	900	901	906	906	903	902	897	897	897	891
19 D	897	895	893	894	897	897	898	899	901	898	893	889	884	884	887	890	898	911	925	927	923	902	897	893	871	898
20 D	871	867	863	876	875	867	881	888	888	888	892	893	897	896	901	910	909	907	907	906	903	902	902	902	902	892
21	902	902	902	902	902	902	904	903	903	900	897	894	887	885	890	894	897	901	902	901	902	903	902	902	901	899
22	901	901	898	894	893	893	893	897	894	893	894	892	890	891	894	898	901	906	911	911	910	906	902	902	892	898
23	892	879	888	894	897	898	899	901	898	894	894	893	885	886	893	897	902	906	910	906	906	902	901	901	894	897
24	894	890	893	896	897	900	901	902	899	897	897	893	888	887	892	893	897	902	906	906	903	902	901	901	897	897
25	897	897	898	898	898	901	902	902	897	894	892	886	882	877	881	888	894	901	909	915	918	913	906	902	902	898
26	902	901	901	901	901	901	897	894	892	885	885	885	884	884	886	893	895	897	898	898	899	902	904	904	899	895
27	899	897	894	897	900	901	901	899	897	897	897	889	889	892	894	894	900	902	905	906	906	903	902	901	901	898
28	900	900	900	900	901	901	901	900	898	896	892	884	876	879	888	896	896	897	901	900	901	901	901	900	898	896
29 Q	898	897	897	898	900	901	901	901	898	892	887	887	887	891	896	900	901	901	901	901	901	900	900	900	900	897
30	899	898	892	895	896	898	897	895	891	883	878	878	878	878	882	887	892	895	896	899	899	899	899	896	896	892
Mean	897	896	896	896	895	896	898	899	897	895	892	889	885	**885**	890	896	899	903	905	**907**	906	904	901	899	897	897

DAILY EXTREMES OF EACH COMPONENT OF TERRESTRIAL MAGNETIC FORCE:

284. Eskdalemuir. MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **April, 1931.**

Day.	Terrestrial Magnetic Elements.															Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2)	Temperature in Magnet House 200 +
	North Component.					West Component.					Vertical Component							
	Maximum 15000 γ +		Minimum 15000 γ +		Range.	Maximum 4000 γ +		Minimum 4000 γ +		Range.	Maximum 44000 γ +		Minimum 44000 γ +		Range.			
	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ			°A.
1 D	19 18	1085	1010	19 1	75	13 20	232	126	19 26	106	19 24	942	890	11 50	52	196	1	81·1
2	23 42	1080	1005	10 38	75	14 43	223	165	0 20	58	0 1	907	882	12 28	25	96	0	81·1
3 D	22 42	1079	1010	20 34	69	14 30	226	158	21 13	68	20 40	**945**	882	12 38	**63**	134	1	81·1
4	18 34	1080	1010	11 18	70	12 53	219	145	18 21	74	18 22	920	886	24 0	34	115	1	81·1
5	19 36	1064	1010	10 21	54	13 32	226	158	9 12	68	17 0	904	885	12 10	19	79	0	81·1
6 Q	18 46	1069	1014	12 10	55	13 53	219	165	8 33	54	17 43	907	888	13 12	19	63	0	81·1
7	23 29	1079	1020	12 39	59	13 30	221	165	8 42	56	6 40	903	877	12 32	26	73	0	81·1
8	23 49	1084	1020	12 6	64	14 11	225	165	8 50	60	21 23	901	876	13 40	25	83	0	81·1
9	22 52	**1110**	1019	11 50	91	14 13	232	165	6 54	67	22 20	903	882	12 50	21	132	1	81·1
10 D	4 22	1089	995	13 19	94	12 44	232	132	4 44	100	19 24	916	**856**	4 32	60	224	1	81·3
11	18 0	1079	989	12 12	90	13 38	231	158	20 0	73	14 52	915	885	0 1	30	143	1	81·3
12 Q	23 35	1061	994	11 50	67	13 49	207	165	8 14	42	18 30	904	886	12 42	18	66	0	81·3
13 Q	18 51	1065	1028	11 44	**37**	13 35	205	163	8 38	42	7 5	901	884	12 50	17	34	0	81·3
14 Q	22 19	1080	1023	11 23	57	14 20	212	159	8 35	53	17 11	901	877	12 54	24	66	0	81·3
15	16 22	1074	1020	11 13	54	13 41	219	166	8 52	53	20 30	906	876	13 15	30	66	0	81·3
16	18 11	1081	1019	11 42	62	14 20	211	158	8 39	53	7 39	900	882	12 22	18	70	0	81·3
17	21 39	1081	1029	10 50	52	13 46	225	165	7 13	60	18 0	898	880	11 58	18	66	0	81·3
18	3 34	1096	1006	11 40	90	14 47	232	145	4 30	87	19 18	906	870	3 46	36	170	1	81·3
19 D	19 52	1091	1015	12 10	76	14 30	**240**	**112**	23 53	**128**	18 50	932	872	24 00	60	258	1	81·3
20 D	0 3	1076	**936**	10 39	**140**	14 23	227	119	0 1	108	15 5	911	859	2 5	52	340	1	81 3
21	19 12	1078	1020	11 56	58	13 36	214	152	8 42	62	6 32	905	885	12 50	20	76	0	81·3
22	16 23	1072	1011	11 13	61	23 56	212	160	7 28	52	18 22	913	889	12 33	24	70	0	81·3
23	24 0	1080	1015	13 22	65	15 35	214	166	8 42	48	17 50	910	876	0 42	34	77	0	81·5
24	0 7	1081	1016	11 44	65	13 50	213	160	4 13	53	18 52	906	885	12 38	21	75	0	81·5
25	18 10	1081	1016	11 15	65	17 7	226	157	7 47	69	20 5	921	876	12 56	45	110	0	81·5
26	3 13	1077	1027	9 48	50	13 4	205	163	5 0	42	22 40	906	883	12 20	23	48	0	81·5
27	0 1	1069	1027	11 45	42	14 38	205	167	0 1	**38**	19 20	906	888	11 15	18	35	0	81·5
28	22 15	1077	1022	11 23	55	13 30	220	165	8 16	55	21 50	904	875	12 3	29	69	0	81·6
29 Q	0 1	1072	1025	11 39	47	14 9	205	165	8 7	40	4 50	902	887	11 50	**15**	40	0	81·5
30	1 22	1074	1026	12 9	48	13 22	212	159	7 15	53	21 40	900	875	12 19	25	57	0	81·7
Mean	—	1079	1013	—	66	—	220	156	—	64	—	910	880	—	30	104	0·30	81 3
No. of Days used.	—	30	30	—	30	—	30	30	—	30	—	30	30	—	30	30	30	30

§ For explanation *see* page 169. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

285. Eskdalemuir. (X.) 15,000 γ (·15 C.G.S. unit) + **May, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1065	1068	1063	1057	1059	1060	1058	1053	1048	1043	1039	1029	1032	1036	1044	1053	1064	1074	1077	1074	1072	1072	1068	1069	1068	1057
2	1068	1068	1068	1067	1063	1072	1059	1063	1057	1039	1028	1026	1028	1028	1046	1050	1062	1068	1069	1069	1069	1067	1067	1066	1064	1057
3	1064	1065	1067	1067	1066	1063	1062	1068	1067	1051	1038	1032	1038	1043	1048	1057	1059	1068	1072	1068	1069	1062	1064	1068	1068	1059
4	1068	1065	1064	1063	1061	1067	1063	1063	1063	1079	1041	1033	1035	1042	1044	1055	1064	1072	1076	1074	1068	1064	1063	1063	1066	1060
5	1066	1063	1063	1062	1063	1068	1067	1066	1062	1053	1034	1022	1015	1033	1043	1043	1049	1073	1074	1071	1073	1070	1073	1073	1068	1057
6 D	1068	1064	1064	1064	1067	1072	1075	1077	1056	1052	1038	1012	1022	1038	1038	1049	1053	1053	1079	1072	1071	1063	1061	1058	1059	1057
7 D	1059	1069	1079	1091	1083	1069	1049	1059	1061	1044	1024	984	1000	1013	1024	1024	1059	1061	1064	1060	1074	1064	1057	1060	1054	1051
8	1054	1049	1043	1048	1053	1051	1048	1044	1038	1029	1020	1020	1027	1034	1049	1054	1058	1062	1062	1071	1064	1063	1060	1059	1057	1048
9 Q	1057	1057	1055	1054	1055	1058	1057	1050	1045	1041	1030	1033	1034	1043	1050	1059	1059	1065	1069	1065	1064	1060	1059	1063	1061	1053
10 Q	1061	1062	1059	1056	1057	1059	1057	1054	1053	1043	1029	1029	1034	1046	1058	1064	1068	1069	1065	1065	1066	1067	1068	1069	1069	1057
11	1069	1069	1069	1069	1070	1069	1069	1065	1061	1057	1047	1051	1047	1045	1068	1056	1065	1086	1100	1095	1070	1061	1056	1055	1056	1065
12	1056	1050	1060	1042	1055	1058	1034	1041	1046	1036	1025	1019	1024	1035	1044	1050	1060	1070	1078	1075	1073	1080	1065	1060	1065	1052
13 D	1065	1059	1055	1056	1064	1069	1065	1046	1044	1044	1034	1027	1026	1027	1036	1051	1070	1087	1091	1090	1078	1080	1058	1066	1056	1058
14 D	1056	1051	1055	1070	1075	1065	1051	1055	1054	1043	1030	1035	1030	1035	1043	1049	1059	1085	1095	1090	1074	1080	1106	1066	1071	1061
15 D	1071	1031	1035	1061	1071	1036	1031	1037	1005	1007	1015	1020	1013	1041	1049	1045	1056	1067	1071	1081	1091	1057	1057	1056	1061	**1046**
16	1061	1051	1058	1045	1060	1052	1033	1016	1041	1043	1036	1029	1035	1045	1061	1051	1060	1068	1075	1058	1062	1060	1059	1053	1066	1051
17	1066	1060	1045	1051	1041	1044	1052	1051	1045	1040	1037	1036	1036	1037	1041	1053	1062	1074	1075	1076	1080	1061	1065	1065	1066	1054
18	1066	1070	1051	1068	1066	1050	1044	1038	1047	1051	1038	1031	1036	1042	1050	1055	1055	1054	1069	1077	1067	1059	1059	1056	1051	1054
19	1051	1061	1065	1056	1055	1057	1055	1051	1037	1042	1033	1036	1038	1038	1046	1048	1051	1057	1071	1072	1071	1066	1066	1063	1065	1054
20	1065	1062	1063	1062	1062	1062	1058	1053	1044	1034	1022	1022	1022	1036	1052	1056	1067	1076	1073	1068	1070	1067	1064	1069	1057	1055
21	1057	1058	1066	1066	1066	1066	1062	1056	1051	1046	1041	1036	1042	1044	1041	1061	1070	1074	1078	1071	1068	1064	1063	1063	1066	1059
22 Q	1066	1066	1066	1065	1066	1067	1066	1057	1049	1040	1035	1027	1033	1041	1038	1053	1064	1067	1073	1072	1071	1067	1066	1066	1066	1058
23 Q	1066	1067	1067	1062	1066	1071	1067	1062	1052	1041	1036	1020	1022	1032	1045	1057	1069	1073	1076	1081	1077	1071	1072	1072	1072	1059
24	1072	1073	1073	1073	1073	1073	1069	1067	1064	1053	1037	1031	1034	1042	1046	1064	1073	1079	1073	1077	1073	1073	1073	1072	1069	1064
25	1069	1069	1068	1065	1067	1064	1062	1058	1058	1056	1048	1047	1049	1052	1057	1078	1087	1093	1086	1073	1081	1084	1083	1089	1087	**1069**
26	1087	1086	1078	1080	1082	1072	1081	1074	1058	1038	1032	1032	1033	1033	1034	1060	1084	1084	1078	1083	1074	1068	1065	1064	1061	1064
27	1061	1062	1059	1060	1063	1059	1051	1047	1037	1038	1033	1029	1046	1046	1053	1056	1068	1069	1072	1076	1068	1061	1059	1058	1057	1055
28 Q	1057	1055	1054	1053	1055	1056	1051	1042	1035	1032	1029	1030	1038	1047	1054	1059	1062	1064	1068	1068	1065	1065	1064	1066	1065	1053
29	1065	1064	1063	1062	1063	1065	1067	1057	1050	1049	1045	1043	1047	1054	1067	1046	1054	1069	1075	1078	1078	1066	1065	1064	1063	1061
30	1063	1064	1064	1064	1065	1065	1067	1064	1054	1044	1043	1041	1045	1053	1057	1065	1063	1079	1074	1074	1074	1071	1068	1064	1063	1062
31 D	1063	1064	1064	1065	1066	1063	1063	1054	1049	1040	1029	1024	1028	1034	1049	1055	1069	1073	1074	1073	1074	1049	1048	1049	1048	1055
Mean	1064	1062	1061	1062	1064	1062	1058	1055	1049	1043	1034	**1029**	1032	1039	1048	1054	1063	1071	**1075**	1074	1072	1067	1065	1064	1063	1057

TERRESTRIAL MAGNETIC FORCE: WEST COMPONENT.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

286. Eskdalemuir. (—Y.) 4,000 γ (·04 C.G.S. unit) + **May, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	188	181	180	176	174	172	166	161	160	166	174	184	194	200	206	206	206	201	199	195	194	193	193	192	192	186
2	192	190	193	176	176	170	164	166	164	168	174	182	198	202	207	200	199	199	194	192	192	187	186	186	186	186
3	186	186	186	181	178	173	166	173	166	166	180	188	205	212	212	212	206	200	198	193	192	186	182	180	180	188
4	180	181	192	178	166	166	160	160	159	160	173	180	193	206	207	205	200	200	199	192	186	186	176	182	182	183
5	182	179	179	174	179	167	163	165	159	160	170	186	200	209	217	214	210	212	206	193	180	179	169	173	175	184
6 D	175	181	188	181	169	161	155	145	153	180	184	199	207	209	212	212	211	200	202	193	190	187	186	180	180	186
7 D	180	181	187	215	208	180	126	137	152	153	166	175	201	200	207	200	197	194	193	185	174	179	180	180	176	181
8	176	180	190	181	172	166	164	157	157	159	161	178	187	200	206	197	192	192	186	186	186	186	186	186	186	181
9 Q	186	185	184	180	175	167	165	160	160	166	173	185	194	201	201	194	186	186	186	186	187	186	186	186	187	182
10 Q	187	186	181	180	175	169	163	160	161	167	179	189	201	207	208	207	201	201	196	193	193	193	190	188	187	186
11	187	185	182	182	178	163	154	154	160	168	180	196	213	214	225	206	201	207	211	209	174	161	129	153	161	182
12	161	167	175	181	187	175	163	161	161	175	181	202	220	221	214	206	199	199	187	187	188	179	169	173	177	185
13 D	177	175	175	173	167	154	154	154	154	165	177	187	199	205	207	201	200	206	204	198	174	110	161	161	153	176
14 D	153	154	144	140	148	148	135	140	140	154	174	177	200	202	210	202	201	207	205	193	173	189	167	146	128	**170**
15 D	128	161	177	167	161	158	158	144	140	154	160	176	193	214	205	200	200	196	191	179	171	175	180	179	175	175
16	175	175	179	181	161	162	161	176	176	173	175	188	200	209	215	202	196	195	199	187	181	181	179	182	181	184
17	181	174	181	181	174	179	163	156	159	161	167	177	193	201	207	205	201	196	193	189	181	183	187	185	175	182
18	175	180	196	168	162	154	154	146	154	163	177	194	217	227	228	221	207	195	189	185	180	174	177	174	161	183
19	161	169	161	167	161	161	160	158	154	167	180	187	201	213	213	208	199	193	191	188	187	183	181	181	181	181
20	181	181	180	177	174	168	163	160	160	167	179	196	215	226	228	228	227	220	209	195	193	178	180	160	161	189
21	161	161	168	179	177	173	167	167	167	167	175	188	203	219	220	213	206	200	195	187	187	184	181	182	187	185
22 Q	187	187	184	182	179	173	161	158	155	160	173	187	203	214	213	213	207	198	198	188	187	187	187	187	187	186
23 Q	187	187	185	179	173	167	160	154	151	154	160	169	187	200	201	201	201	195	193	193	193	194	191	187	189	182
24	189	188	184	181	179	171	161	161	161	165	175	186	195	201	203	206	202	198	194	192	193	192	189	187	185	185
25	185	187	181	180	169	161	154	154	161	166	174	185	195	200	196	201	203	202	199	195	201	200	185	189	187	184
26	187	182	187	178	187	207	203	188	174	179	175	186	189	193	194	196	202	200	195	194	194	194	188	187	187	**190**
27	187	182	180	181	169	167	169	167	167	165	173	185	202	206	207	203	197	193	188	182	187	184	183	182	182	183
28 Q	182	182	182	176	174	164	159	153	149	157	175	188	197	204	201	194	186	180	182	188	188	188	186	186	186	180
29	186	188	188	179	174	168	159	160	162	168	184	196	214	226	228	212	207	200	194	189	188	185	183	183	182	188
30	182	182	182	182	176	168	157	155	154	160	170	182	196	202	203	202	192	188	181	182	182	187	188	188	184	181
31 D	184	182	182	182	176	169	161	154	153	155	170	189	203	208	215	210	204	194	183	186	188	189	188	188	188	184
Mean	178	179	181	178	173	168	160	158	**158**	164	174	186	200	208	**210**	206	201	198	195	190	186	183	180	180	178	183

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

287. Eskdalemuir. (Z.) 44,000 γ (·44 C.G.S. unit) + **May, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	896	894	891	894	895	898	897	896	891	887	884	883	879	878	882	887	890	891	894	894	894	892	894	893	894	891
2	894	894	890	886	890	891	890	885	882	882	879	882	882	884	887	891	894	895	895	895	895	894	894	895	895	889
3	895	899	899	899	899	899	894	886	882	884	882	878	877	877	882	889	894	898	902	903	903	903	900	896	894	892
4	893	893	887	885	890	890	886	882	880	878	878	877	876	878	886	890	890	892	897	898	899	898	898	895	894	888
5	894	895	895	897	896	894	893	890	888	881	880	877	877	881	885	893	898	902	908	911	911	910	906	899	898	**894**
6 D	898	899	898	894	894	898	898	895	890	880	869	867	864	869	879	881	885	894	898	900	895	894	890	890	890	888
7 D	890	890	885	864	800	783	821	850	860	862	868	877	878	881	888	898	898	903	902	902	902	894	891	890	890	874
8	889	889	884	883	889	892	892	893	890	888	881	880	880	880	886	892	893	894	897	897	895	893	892	892	891	889
9 Q	890	891	891	891	892	894	893	892	888	884	878	874	873	879	885	891	891	891	891	891	891	887	887	885	884	887
10 Q	884	888	888	888	888	891	889	887	883	879	876	875	871	871	879	884	887	889	888	888	888	888	888	888	888	884
11	888	888	888	888	888	891	888	887	880	875	871	867	865	866	874	883	887	890	899	909	917	910	900	885	881	887
12	880	885	875	870	869	865	874	876	881	880	877	872	870	877	884	890	895	900	904	903	900	897	892	890	886	884
13 D	885	885	886	887	886	889	886	886	882	881	873	871	870	877	884	885	886	890	897	904	915	911	891	889	886	887
14 D	886	881	875	874	877	885	889	886	882	874	869	865	865	871	878	882	886	886	894	903	910	898	841	856	856	879
15 D	856	843	810	814	807	822	852	864	868	864	869	872	874	881	903	909	903	898	903	908	911	903	899	894	886	**873**
16	886	889	890	886	882	886	888	885	882	877	877	877	880	886	894	903	903	903	903	903	906	902	903	897	886	991
17	885	884	880	884	888	886	889	889	891	885	880	878	880	885	885	888	893	898	902	902	903	898	896	895	896	890
18	895	892	883	871	872	878	882	884	883	878	871	871	875	883	889	897	904	905	904	904	904	904	901	899	897	889
19	896	891	887	887	887	891	888	889	891	888	883	880	878	883	887	891	899	899	896	895	895	895	894	893	892	890
20	892	892	891	890	891	895	892	895	894	891	886	875	874	874	883	889	894	904	913	917	914	908	904	900	894	894
21	893	889	888	890	894	898	899	897	894	893	887	882	880	881	885	891	895	900	899	898	895	894	894	894	893	892
22 Q	893	894	893	894	895	898	898	895	898	894	888	885	881	878	885	890	894	899	902	902	899	898	895	894	895	893
23 Q	894	892	891	893	897	898	897	895	893	889	882	875	876	879	881	884	889	894	896	897	894	893	893	892	889	890
24	888	888	889	891	892	893	892	884	880	880	880	875	869	870	874	880	884	891	893	893	885	888	888	888	888	885
25	888	888	888	891	892	894	892	888	884	881	879	873	874	875	879	886	893	902	909	906	901	899	895	889	888	889
26	887	887	888	890	888	884	869	868	874	878	873	873	870	879	886	889	895	908	913	909	904	900	896	895	892	888
27	892	891	891	888	888	892	892	891	893	891	885	879	879	882	887	892	896	898	896	897	897	896	895	895	894	891
28 Q	893	892	891	892	894	895	895	895	892	889	880	881	882	885	887	890	890	889	887	890	890	891	891	891	890	890
29	889	889	888	889	890	891	889	888	885	881	872	868	872	878	884	894	893	894	897	894	894	894	893	891	890	887
30	890	890	890	891	892	891	889	889	889	885	875	868	864	865	880	890	894	898	898	895	893	891	889	889	889	887
31	888	889	889	889	891	890	887	882	880	879	870	864	863	867	873	883	890	898	900	893	889	888	888	887	887	884
Mean	889	889	886	885	884	885	886	886	885	882	877	875	**874**	877	884	890	893	897	899	**900**	900	897	893	891	889	888

DAILY EXTREMES OF EACH COMPONENT OF TERRESTRIAL MAGNETIC FORCE:

288. Eskdalemuir. MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **May, 1931.**

Day.	Terrestrial Magnetic Elements. North Component. Maximum 15000 γ +		North Component. Minimum 15000 γ +		North Component. Range.	West Component. Maximum 4000 γ +		West Component. Minimum 4000 γ +		West Component. Range.	Vertical Component. Maximum 44000 γ +		Vertical Component. Minimum 44000 γ +		Vertical Component. Range.	Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2)	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ			°A.
1	17 28	1082	1018	11 12	64	14 48	209	159	6 38	**50**	5 26	899	878	12 42	21	70	0	81·7
2	17 32	1078	1018	12 7	60	14 22	214	153	7 55	61	18 10	896	878	10 10	18	76	1	81·7
3	22 47	1079	1028	11 21	51	13 28	214	160	6 35	54	20 40	904	875	12 23	29	64	1	81·7
4	17 53	1079	1028	11 8	51	13 28	214	157	6 32	57	20 12	901	875	11 50	26	65	0	81·7
5	20 32	1088	1012	12 5	76	14 39	220	157	8 0	63	20 21	912	876	11 10	36	110	1	81·7
6 D	18 0	1091	1003	11 9	88	13 31	229	138	7 35	91	18 40	902	864	11 48	38	175	1	81·7
7 D	4 31	**1130**	**963**	11 16	**167**	3 52	233	116	6 12	117	17 23	906	**778**	4 23	**128**	580	2	81·7
8	18 46	1074	1013	11 30	61	14 0	210	151	7 50	59	18 30	898	879	11 10	19	76	1	81·7
9 Q	17 53	1071	1023	10 12	48	13 6	206	154	6 38	52	5 0	895	871	11 40	24	56	0	81·9
10 Q	16 26	1073	1024	10 40	49	13 20	210	159	6 28	51	5 5	891	868	12 22	23	55	0	81·9
11	18 46	1115	1034	13 7	81	13 41	229	121	22 10	108	20 12	921	863	12 18	58	216	1	81·9
12	21 12	1106	1000	11 15	106	13 3	225	146	0 28	79	18 22	904	861	4 52	43	193	1	81·9
13 D	20 51	1129	1022	12 30	107	17 22	214	**73**	20 49	**141**	20 49	**923**	869	11 41	54	342	1	81·9
14 D	21 43	1119	1025	11 40	94	13 52	220	121	23 53	99	20 20	911	839	22 12	72	238	1	81·9
15 D	19 25	1127	968	1 28	159	12 58	220	127	0 12	93	19 39	913	800	1 42	113	467	2	81·9
16	17 56	1081	1006	7 15	75	12 52	221	155	4 14	66	20 0	906	877	9 18	29	108	1	82·1
17	19 50	1091	1031	4 20	60	15 45	209	154	7 32	55	19 28	905	876	2 12	29	75	1	82·1
18	18 46	1081	1026	11 11	55	14 24	230	141	7 2	89	17 3	905	867	2 38	38	124	1	82·1
19	18 24	1076	1032	10 6	44	13 28	215	153	7 36	62	16 26	900	878	11 30	22	63	0	82·1
20	17 33	1083	1016	12 10	67	13 15	234	140	22 31	94	19 14	920	873	11 58	47	155	0	82·1
21	18 20	1082	1032	10 47	50	14 4	221	154	0 51	67	17 24	902	878	12 18	24	76	0	82·1
22 Q	17 48	1081	1022	10 52	59	12 58	216	154	7 30	62	18 0	903	877	13 0	26	80	0	82·1
23 Q	19 3	1082	1017	11 27	65	14 43	205	148	7 50	57	5 25	898	872	11 19	26	81	0	82·1
24	16 52	1085	1028	10 46	57	14 15	208	154	6 30	54	5 8	896	867	12 20	29	70	0	82·2
25	16 31	1107	1043	12 0	64	16 31	214	149	4 27	65	18 26	910	871	11 32	39	98	1	82·3
26	16 28	1116	1021	10 43	95	5 3	228	167	8 15	61	18 0	913	866	6 32	47	150	1	82·3
27	19 27	1083	1018	10 39	65	13 38	212	158	8 47	54	16 45	899	878	12 18	21	76	1	82·4
28 Q	18 30	1069	1028	9 50	**41**	12 42	208	149	7 36	59	6 10	885	868	10 28	**17**	55	0	82·4
29	14 20	1083	1008	15 24	75	13 35	**235**	153	6 21	82	17 48	898	868	11 9	30	132	1	82·4
30	17 4	1088	1038	11 9	50	14 56	208	150	7 32	58	18 2	898	860	12 19	38	73	0	82·4
31	20 0	1079	1024	11 15	55	14 5	220	151	8 12	69	17 45	901	862	12 5	39	93	0	82·5
Mean	—	1091	1018	—	72	—	218	146	—	72	—	904	865	—	39	138	0·65	82·0
No. of Days used.	—	31	31	—	31	—	31	31	—	31	—	31	31	—	31	31	31	31

§ For explanation see page 169. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

289. Eskdalemuir. (X.) 15,000 γ (·15 C.G.S. unit) + **June, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1049	1074	1067	1070	1074	1075	1070	1061	1050	1039	1030	1024	1031	1031	1040	1058	1086	1107	1106	1083	1100	1100	1090	1061	1072	1066
2 D	1072	1080	1078	1074	1079	1065	1057	1060	1036	996	990	1006	1004	1054	1029	1032	1031	1090	1074	1078	1070	1065	1050	1044	1058	1050
3	1058	1056	1055	1047	1054	1035	1035	1036	1030	1020	1010	1014	1020	1036	1045	1059	1068	1070	1072	1072	1067	1068	1064	1061	1062	1048
4	1062	1061	1060	1060	1061	1061	1056	1046	1036	1028	1022	1012	1026	1039	1045	1051	1056	1072	1077	1075	1069	1071	1065	1062	1060	1053
5 Q	1060	1059	1059	1061	1065	1066	1061	1056	1047	1046	1039	1036	1035	1040	1051	1064	1070	1076	1080	1079	1079	1077	1071	1071	1075	1061
6	1075	1086	1076	1075	1079	1072	1067	1056	1043	1037	1028	1031	1036	1031	1035	1052	1075	1083	1097	1098	1080	1071	1065	1066	1067	1063
7	1067	1065	1066	1064	1066	1069	1067	1060	1049	1037	1023	1016	1026	1026	1030	1045	1062	1061	1062	1070	1073	1070	1071	1062	1061	1054
8	1061	1060	1057	1059	1063	1059	1061	1061	1052	1046	1036	1035	1034	1037	1048	1060	1056	1076	1081	1106	1097	1076	1073	1078	1047	1061
9 D	1047	1052	1042	1063	1007	1032	1002	1021	1031	1027	1008	1014	1011	1021	1023	1036	1042	1042	1043	1042	1032	1002	1003	1012	1006	**1026**
10	1006	1051	1051	1052	1057	1057	1060	1033	1037	1026	1039	1037	1042	1053	1056	1037	1057	1067	1087	1083	1085	1078	1073	1071	1071	1055
11	1071	1066	1052	1072	1053	1051	1042	1032	1037	1037	1022	1013	1023	1032	1047	1071	1051	1063	1073	1081	1075	1071	1070	1087	1071	1054
12	1071	1061	1060	1055	1052	1052	1053	1047	1042	1021	1022	1031	1037	1029	1031	1061	1083	1072	1071	1082	1065	1063	1065	1063	1056	1053
13	1056	1058	1058	1057	1053	1051	1047	1047	1040	1034	1035	1028	1033	1031	1047	1059	1053	1067	1073	1071	1075	1078	1064	1062	1067	1053
14	1067	1068	1058	1058	1051	1056	1056	1048	1045	1039	1043	1039	1047	1051	1052	1064	1072	1068	1081	1083	1079	1068	1062	1063	1077	1059
15 Q	1077	1064	1058	1061	1059	1056	1057	1048	1043	1037	1037	1043	1043	1047	1056	1062	1066	1071	1072	1070	1073	1072	1065	1063	1069	1058
16 Q	1069	1063	1064	1063	1065	1059	1058	1058	1058	1053	1048	1043	1039	1043	1042	1048	1064	1070	1078	1082	1077	1074	1072	1077	1074	1061
17 Q	1074	1068	1069	1069	1069	1068	1064	1059	1054	1047	1040	1038	1040	1045	1055	1063	1069	1069	1070	1074	1083	1079	1079	1073	1073	1063
18	1073	1069	1079	1073	1072	1073	1070	1064	1059	1054	1045	1033	1034	1035	1043	1052	1060	1073	1079	1075	1071	1068	1063	1064	1068	1062
19	1068	1069	1069	1070	1069	1073	1069	1060	1055	1044	1026	1018	1028	1024	1035	1053	1058	1067	1075	1084	1079	1073	1069	1065	1066	1058
20	1066	1065	1063	1063	1066	1073	1074	1067	1055	1038	1029	1025	1029	1034	1044	1059	1058	1064	1072	1078	1074	1073	1073	1071	1068	1059
21	1068	1068	1067	1066	1070	1075	1076	1071	1063	1056	1051	1046	1044	1036	1049	1060	1054	1065	1086	1099	1080	1086	1079	1074	1075	1066
22	1075	1074	1074	1072	1075	1075	1072	1069	1065	1060	1045	1027	1025	1030	1040	1056	1074	1075	1079	1076	1083	1081	1069	1070	1070	1066
23	1070	1071	1066	1067	1069	1070	1066	1060	1058	1054	1051	1037	1036	1035	1040	1042	1060	1078	1075	1075	1072	1070	1069	1072	1070	1061
24	1070	1060	1060	1060	1065	1069	1061	1050	1045	1040	1041	1041	1045	1048	1055	1062	1054	1061	1066	1080	1077	1071	1071	1064	1066	1059
25 Q	1066	1066	1065	1066	1063	1064	1070	1069	1057	1042	1034	1027	1034	1041	1048	1051	1058	1060	1066	1073	1076	1074	1073	1070	1069	1059
26 D	1069	1065	1065	1066	1069	1070	1070	1067	1058	1047	1036	1039	1044	1048	1050	1086	1079	1070	1108	1086	1100	1101	1090	1070	1060	**1069**
27 D	1060	1065	1060	1067	1060	1068	1071	1066	1056	1048	1036	1027	1015	1050	1041	1075	1042	1084	1080	1085	1071	1067	1066	1070	1070	1060
28 D	1070	1057	1076	1077	1031	1065	1062	1060	1036	1028	1009	1010	1038	1026	1034	1036	1045	1067	1069	1101	1102	1079	1065	1081	1055	1055
29	1055	1051	1055	1058	1051	1058	1054	1044	1036	1031	1036	1021	1024	1040	1048	1057	1073	1074	1083	1075	1075	1067	1066	1065	1063	1054
30	1063	1061	1060	1060	1060	1055	1046	1050	1042	1036	1026	1032	1046	1060	1061	1057	1056	1065	1067	1075	1072	1066	1065	1062	1061	1056
Mean	1064	1064	1063	1064	1061	1062	1059	1054	1047	1038	1031	**1028**	1032	1038	1044	1056	1061	1071	1077	**1080**	1077	1072	1067	1066	1064	1057

TERRESTRIAL MAGNETIC FORCE: WEST COMPONENT.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

290. Eskdalemuir. (—Y.) 4,000 γ (·04 C.G.S. unit) + **June, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	188	186	182	182	178	170	159	149	149	150	162	176	201	215	215	215	222	229	228	208	214	195	187	137	174	**187**
2 D	174	171	176	166	156	189	183	168	155	134	175	196	214	222	222	220	208	209	194	184	178	170	174	190	190	185
3	190	162	162	168	168	168	170	162	149	154	170	186	190	202	207	203	201	192	188	188	188	187	182	187	195	180
4	195	187	175	175	174	163	155	153	153	157	162	178	189	202	202	201	194	190	188	184	183	187	182	182	181	179
5 Q	181	178	175	170	166	156	147	147	149	155	169	187	201	210	210	202	194	194	194	194	189	182	186	188	193	180
6	193	184	175	174	168	161	156	145	151	164	175	182	196	208	215	210	210	204	190	182	188	184	184	184	186	182
7	186	188	184	179	170	167	157	161	155	155	162	175	199	207	209	210	206	198	189	183	183	174	168	170	180	181
8	180	179	175	168	161	168	163	155	153	155	167	174	190	208	215	222	214	222	215	210	168	176	177	168	141	182
9 D	141	123	153	162	190	214	168	170	147	148	152	168	183	196	204	202	214	204	195	190	187	186	181	168	163	177
10	163	161	161	154	147	141	143	162	168	156	169	178	192	208	214	204	209	208	206	196	191	186	182	181	182	179
11	182	182	182	181	149	141	141	147	162	168	175	182	196	203	204	214	195	201	195	195	188	186	184	168	140	179
12	140	129	139	153	155	154	148	143	152	157	178	188	209	216	215	221	216	208	195	181	181	177	170	163	171	175
13	171	172	176	169	165	163	149	145	146	149	162	176	191	195	203	215	204	203	200	183	183	169	175	184	183	177
14	183	173	164	171	175	169	155	149	144	155	164	169	184	202	201	198	202	196	197	184	189	184	182	182	177	178
15 Q	177	163	162	163	155	160	155	144	141	142	160	175	183	196	201	200	196	196	195	189	187	183	182	179	177	**174**
16 Q	177	171	172	169	169	164	162	155	150	153	161	176	188	196	205	205	205	202	198	196	195	190	187	183	163	180
17 Q	163	169	176	176	175	169	163	162	156	162	176	189	196	205	215	211	209	197	195	194	194	189	183	179	181	184
18	181	185	190	176	171	162	156	150	156	163	169	179	195	203	209	205	203	197	196	189	184	183	181	180	182	182
19	182	183	182	180	171	167	156	156	156	157	163	169	188	195	201	209	209	203	197	195	190	182	183	183	182	182
20	182	179	180	184	171	163	156	148	146	149	162	176	193	203	210	210	198	195	193	189	184	184	183	183	183	180
21	183	183	183	181	178	169	162	155	154	156	161	175	189	190	196	208	211	210	220	212	189	190	189	183	183	184
22	183	177	177	175	171	169	169	163	161	156	163	171	187	191	199	203	195	193	189	188	189	189	183	184	184	180
23	184	182	183	169	163	162	157	157	163	171	176	180	191	196	198	198	196	195	187	189	190	189	189	180	175	181
24	175	175	170	177	176	161	157	157	157	156	165	176	189	189	195	195	191	189	189	195	191	177	171	177	179	177
25 Q	179	177	176	170	165	169	163	164	162	160	163	171	189	203	202	198	193	193	197	196	193	192	193	191	186	182
26 D	186	182	180	176	171	165	158	154	150	153	163	173	184	195	195	216	234	223	230	216	203	215	200	125	147	184
27 D	147	164	177	178	182	156	149	147	163	168	188	200	210	219	208	220	200	181	191	192	188	164	169	180	191	182
28 D	191	156	144	154	175	163	153	150	152	158	166	171	195	211	208	200	197	201	199	197	180	156	165	137	168	174
29	168	167	168	170	163	160	154	144	146	148	165	166	173	189	197	198	198	191	190	189	189	183	183	181	178	174
30	178	181	177	176	165	155	153	151	155	155	167	182	192	189	189	191	197	200	193	185	179	183	182	179	177	177
Mean	177	172	173	171	168	165	157	154	**153**	155	167	178	193	202	206	**207**	204	201	198	192	188	183	181	175	176	180

Q denotes an "International Quiet Day" while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

291. Eskdalemuir. (Z.) 44,000 γ (·44 C.G.S. unit) + **June, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	886	886	887	888	888	888	887	884	883	880	875	868	866	871	874	880	883	887	893	900	896	897	872	858	871	882
2 D	871	878	884	891	888	880	870	877	878	875	869	866	870	887	887	901	911	920	933	925	917	909	902	887	849	**890**
3	849	852	873	882	886	886	882	887	887	881	871	870	871	878	882	887	894	896	899	896	896	894	892	891	887	883
4	887	887	890	891	891	891	891	891	889	882	877	877	875	878	885	886	889	891	895	897	894	890	890	889	889	888
5 Q	889	889	889	890	891	894	894	889	885	878	877	877	881	881	885	886	887	894	894	894	894	893	889	888	885	888
6	885	878	875	881	885	886	886	885	884	880	876	865	859	863	872	885	890	897	906	905	905	897	893	889	884	884
7	884	884	880	883	887	889	889	889	888	884	879	875	864	868	874	880	885	893	897	897	894	893	890	885	885	885
8	885	885	884	884	884	884	882	886	884	877	870	862	862	867	871	879	884	888	893	896	910	905	896	879	870	883
9 D	870	863	829	803	785	788	815	837	858	874	874	879	891	896	895	894	892	900	904	904	900	896	892	885	879	**868**
10	879	883	883	886	884	885	878	874	869	870	865	866	870	871	877	886	883	887	895	896	895	892	891	888	886	882
11	886	883	880	849	856	865	873	873	870	869	866	865	870	872	873	879	888	886	883	885	886	885	883	879	865	875
12	865	839	839	854	867	876	877	877	876	873	868	864	863	864	873	876	888	897	898	903	897	893	887	877	877	875
13	877	873	875	878	879	877	875	876	879	876	872	863	863	868	871	875	879	884	884	888	884	887	883	879	868	877
14	868	867	872	875	875	874	875	872	871	868	867	867	867	873	873	874	879	884	884	889	892	888	884	883	876	876
15 Q	876	871	871	871	874	877	876	875	871	866	862	857	856	863	867	872	877	879	881	879	879	879	878	878	873	872
16 Q	873	873	873	874	874	874	874	873	869	865	863	861	855	856	860	864	870	874	873	873	873	873	873	869	869	869
17 Q	869	872	872	873	874	877	876	876	872	874	868	860	855	856	859	860	865	872	874	873	872	872	872	872	872	869
18	872	872	865	864	868	871	870	868	863	863	860	860	864	863	867	872	875	879	881	880	878	877	875	874	872	870
19	872	872	872	872	876	878	878	876	869	867	864	863	859	863	866	867	874	878	881	882	883	880	877	875	870	873
20	870	875	875	872	875	878	878	879	882	884	883	874	863	858	859	862	870	879	879	879	878	875	874	872	871	874
21	871	874	874	875	875	876	875	876	876	870	866	865	863	867	870	869	872	875	878	884	887	882	878	874	874	874
22	874	874	874	874	875	875	875	873	870	862	857	858	862	867	873	877	886	890	891	886	882	881	880	876	873	875
23	873	873	873	874	876	874	873	869	868	864	864	864	864	865	865	864	872	877	881	883	881	879	877	877	872	872
24	872	870	872	873	873	873	877	876	873	872	865	867	864	866	868	872	877	880	880	880	880	881	880	877	875	874
25 Q	875	875	875	875	876	875	872	868	867	865	861	855	855	860	863	869	875	874	873	874	875	875	875	874	874	870
26 D	874	874	874	875	876	874	872	871	874	874	869	863	858	858	863	861	863	870	875	879	879	878	873	858	859	870
27 D	859	863	865	859	859	866	871	872	874	874	863	861	864	871	880	885	900	923	906	903	898	891	882	874	867	878
28 D	867	854	841	843	841	854	863	871	871	870	860	863	866	871	878	883	886	885	885	888	891	891	882	859	855	869
29	855	866	873	873	872	874	875	874	873	870	862	861	869	870	873	874	877	883	884	884	883	882	879	878	878	874
30	878	878	877	878	878	878	876	875	875	872	869	865	864	862	870	876	879	881	882	883	883	881	879	878	878	876
Mean	874	873	872	872	873	875	875	876	875	873	868	865	**865**	868	872	877	882	887	889	**889**	889	887	883	877	873	877

DAILY EXTREMES OF EACH COMPONENT OF TERRESTRIAL MAGNETIC FORCE:

292. Eskdalemuir. MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **June, 1931.**

Day.	Terrestrial Magnetic Elements.															Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2)	Temperature in Magnet House 200 +
	North Component.					West Component.					Vertical Component.							
	Maximum 15000 γ +		Minimum 15000 γ +		Range.	Maximum 4000 γ +		Minimum 4000 γ +		Range.	Maximum 44000 γ +		Minimum 44000 γ +		Range.			
	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ			°A.
1	17 40	1125	1015	11 10	110	17 41	241	121	22 55	120	21 0	901	850	22 50	51	291	1	82·5
2 D	17 28	1115	**940**	9 20	**175**	14 30	249	121	9 10	128	17 51	**939**	852	24 0	87	546	2	82·5
3	18 39	1085	1005	10 0	80	13 12	214	141	8 19	73	18 0	899	840	0 26	59	152	1	82·6
4	17 48	1086	1010	10 30	76	13 12	207	148	6 57	59	18 32	898	875	12 0	23	98	0	82 6
5 Q	20 23	1090	1034	11 28	56	13 40	215	141	5 45	74	17 58	895	876	9 59	**19**	90	0	82·7
6	18 28	1116	1021	12 40	95	14 17	221	141	6 52	80	18 3	906	858	11 47	48	177	1	82·7
7	16 10	1077	1015	10 44	62	14 37	220	149	9 14	71	18 30	897	863	12 0	34	100	1	82·7
8	19 30	1122	1031	12 8	91	16 56	228	127	20 9	101	20 6	918	858	11 32	60	221	1	82·7
9 D	2 32	1096	975	3 43	121	4 40	242	113	0 43	129	19 11	905	**776**	4 6	**129**	479	2	82·8
10	17 53	1102	1022	15 21	80	14 16	222	135	6 11	87	18 25	899	862	10 20	37	153	1	82·8
11	23 2	1102	1005	10 53	97	14 35	222	135	5 38	87	15 40	890	844	2 53	46	191	1	82·9
12	15 48	1098	1010	9 21	88	15 46	230	128	1 53	102	18 54	905	833	1 31	72	233	1	82·9
13	21 0	1084	1024	13 30	60	14 47	217	137	7 40	80	19 12	889	862	11 55	27	107	1	82·9
14	19 31	1093	1035	10 44	58	14 50	203	142	7 59	61	19 22	893	866	10 30	27	78	1	83·0
15 Q	0 18	1083	1037	10 15	46	14 28	203	135	8 25	68	17 50	882	854	11 38	28	75	0	83·1
16 Q	18 38	1083	1038	14 5	**45**	13 54	209	150	8 18	59	17 3	875	854	12 22	21	59	0	83·1
17 Q	19 50	1089	1035	10 39	54	14 23	216	155	7 50	61	5 45	877	855	12 50	22	71	0	83·1
18	1 53	1090	1030	11 2	60	13 38	210	146	7 19	64	18 25	882	860	10 2	22	82	0	83·2
19	19 25	1090	1013	10 55	77	15 22	211	154	6 20	57	19 45	884	859	12 3	25	98	0	83·3
20	18 43	1079	1023	11 38	56	14 32	217	142	7 20	75	18 16	880	858	12 52	22	92	0	83·3
21	19 0	1141	1034	13 10	107	19 0	230	150	7 13	80	19 38	891	862	12 0	29	187	1	83·3
22	17 50	1092	1014	12 20	78	14 57	209	149	9 25	60	18 24	895	856	10 12	39	112	1	83·3
23	16 48	1085	1025	12 36	60	14 22	205	150	6 32	55	18 54	884	863	14 38	21	71	1	83·4
24	18 38	1090	1035	11 29	55	18 36	202	150	8 35	52	21 41	884	864	12 28	20	61	1	83·4
25 Q	19 48	1080	1024	10 36	56	13 32	204	155	8 26	**49**	21 20	877	855	12 00	22	60	0	83·5
26 D	17 53	**1164**	1035	10 30	129	17 52	**250**	**116**	23 16	**134**	18 45	881	854	23 6	27	353	2	83·5
27 D	16 40	1110	997	12 8	113	13 27	242	136	6 22	106	16 55	913	858	2 53	55	270	1	83·5
28 D	20 18	1126	1000	10 52	126	13 27	221	115	23 15	106	21 10	893	837	4 10	56	302	1	83·5
29	18 19	1088	1006	11 15	82	15 13	203	136	7 48	67	17 41	885	854	0 1	31	122	1	83·7
30	19 17	1081	1021	10 22	60	16 40	205	142	5 50	63	19 50	884	862	12 40	22	81	0	83·7
Mean	—	1099	1017	—	82	—	219	139	—	80	—	893	854	—	39	167	0·77	83·1
No. of Days used.	—	30	30	—	30	—	30	30	—	30	—	30	30	—	30	30	30	30

§ For explanation see page 169. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

293. Eskdalemuir. (X.) 15,000 γ (·15 C.G.S. unit) + **July, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1057	1061	1061	1064	1065	1065	1060	1052	1041	1031	1026	1024	1030	1043	1060	1069	1071	1076	1078	1072	1074	1073	1072	1078	1068	1059
2	1068	1073	1063	1062	1075	1084	1075	1068	1054	1041	1031	1032	1035	1049	1031	1067	1068	1077	1086	1093	1094	1074	1066	1072	1061	1064
3	1061	1057	1058	1061	1066	1067	1057	1047	1043	1046	1044	1035	1036	1043	1034	1048	1056	1080	1072	1082	1086	1073	1067	1064	1067	1058
4	1067	1065	1065	1066	1066	1061	1058	1056	1054	1043	1029	1019	1021	1026	1037	1055	1063	1082	1090	1082	1092	1091	1069	1067	1063	1059
5	1063	1061	1062	1062	1056	1061	1057	1057	1052	1037	1028	1019	1011	1022	1032	1047	1063	1071	1077	1075	1081	1077	1080	1072	1062	1055
6	1062	1062	1057	1058	1065	1065	1062	1056	1054	1046	1042	1037	1026	1036	1030	1040	1058	1076	1085	1088	1079	1071	1066	1063	1061	1058
7	1061	1061	1059	1063	1064	1067	1069	1063	1055	1047	1035	1027	1032	1037	1042	1051	1062	1071	1083	1088	1082	1077	1067	1068	1059	1060
8	1059	1073	1066	1066	1072	1073	1067	1058	1055	1054	1047	1038	1034	1039	1048	1053	1057	1066	1072	1074	1071	1069	1068	1065	1063	1060
9 Q	1063	1062	1062	1064	1064	1068	1068	1066	1060	1053	1044	1040	1034	1033	1044	1052	1065	1066	1068	1075	1078	1079	1070	1067	1066	1060
10 Q	1066	1063	1063	1063	1063	1064	1063	1058	1054	1043	1037	1032	1030	1038	1047	1053	1059	1062	1065	1073	1079	1076	1074	1075	1069	1058
11	1069	1076	1071	1073	1077	1077	1053	1050	1062	1063	1052	1038	1034	1045	1050	1044	1058	1073	1098	1087	1089	1085	1073	1065	1070	**1065**
12	1070	1068	1079	1071	1071	1063	1059	1054	1046	1042	1038	1033	1037	1046	1049	1057	1071	1073	1075	1078	1079	1083	1077	1076	1075	1062
13	1075	1074	1068	1070	1068	1065	1072	1059	1053	1044	1035	1028	1039	1038	1052	1068	1063	1067	1072	1074	1083	1075	1075	1074	1070	1062
14	1070	1065	1062	1063	1063	1063	1054	1054	1059	1042	1002	988	1024	1055	1057	1044	1064	1079	1055	1070	1075	1073	1069	1065	1064	1055
15	1064	1064	1063	1064	1064	1059	1059	1054	1014	1000	1035	1037	1035	1035	1040	1058	1055	1053	1057	1067	1073	1074	1067	1076	1070	1053
16	1070	1060	1068	1048	1061	1065	1061	1045	1042	1038	1025	1020	1019	1026	1039	1049	1057	1066	1064	1064	1064	1065	1064	1065	1075	1052
17	1075	1075	1060	1059	1055	1056	1052	1047	1039	1031	1030	1031	1028	1029	1038	1051	1064	1061	1064	1069	1066	1065	1066	1070	1076	1053
18	1076	1069	1068	1064	1065	1067	1066	1054	1045	1038	1030	1031	1033	1043	1052	1056	1059	1069	1076	1074	1074	1069	1068	1062	1061	1058
19 Q	1061	1064	1061	1064	1065	1066	1060	1055	1045	1034	1027	1027	1033	1035	1051	1053	1068	1070	1068	1066	1067	1065	1065	1061	1060	1055
20 Q	1060	1060	1060	1062	1064	1065	1060	1056	1051	1041	1036	1033	1030	1037	1044	1046	1063	1066	1077	1080	1071	1071	1070	1066	1071	1057
21 Q	1071	1062	1068	1072	1070	1074	1065	1062	1054	1048	1035	1025	1025	1030	1045	1057	1052	1073	1079	1078	1071	1075	1067	1065	1065	1059
22	1065	1060	1061	1061	1062	1065	1061	1061	1053	1040	1036	1031	1031	1041	1055	1061	1057	1057	1064	1070	1070	1070	1068	1066	1064	1057
23 D	1064	1062	1064	1066	1089	1091	1095	1081	1066	1053	1031	1001	1022	1027	1059	1086	1096	1104	1042	1066	1057	1062	1057	1054	1046	1062
24 D	1046	1046	1059	1046	1055	1056	1051	1046	1033	1006	990	1025	1030	1034	1047	1056	1055	1058	1065	1066	1061	1063	1060	1060	1059	1047
25 D	1059	1064	1056	1057	1046	1047	1034	1036	1048	1028	1005	995	1014	1026	1028	1036	1049	1051	1066	1064	1067	1063	1059	1056	1051	**1044**
26 D	1051	1037	1068	1073	1041	1047	1061	1033	1031	1030	1018	1014	1014	1006	1022	1044	1063	1071	1066	1062	1069	1062	1056	1056	1062	1046
27	1062	1055	1050	1051	1051	1051	1046	1044	1029	1021	1022	1022	1018	1037	1054	1062	1066	1058	1065	1073	1066	1063	1058	1063	1065	1050
28 D	1065	1068	1073	1070	1051	1047	1071	1061	1043	1031	1019	1017	1001	1025	1052	1047	1053	1049	1070	1066	1066	1072	1068	1052	1057	1051
29	1057	1056	1053	1047	1057	1052	1028	1032	1042	1040	1023	1017	1020	1028	1047	1051	1061	1062	1061	1059	1066	1060	1070	1061	1054	1048
30	1054	1037	1054	1042	1047	1054	1054	1047	1033	1024	1027	1014	1017	1029	1041	1056	1053	1054	1056	1066	1062	1062	1064	1054	1052	1046
31	1052	1042	1044	1052	1053	1057	1056	1049	1035	1026	1023	1021	1021	1024	1034	1047	1055	1059	1061	1061	1061	1058	1058	1058	1057	1046
Mean	1063	1061	1062	1061	1062	1063	1060	1054	1047	1037	1029	**1024**	1026	1034	1044	1053	1061	1068	1070	1073	**1073**	1071	1067	1065	1063	1055

TERRESTRIAL MAGNETIC FORCE: WEST COMPONENT.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

294. Eskdalemuir. (—Y.) 4,000 γ (·04 C.G.S. unit) + **July, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	177	176	175	176	170	160	154	152	156	159	171	187	202	208	209	209	200	198	194	189	187	183	179	183	180	181
2	180	176	167	163	165	156	146	143	150	157	168	182	195	211	207	221	207	194	185	185	185	165	163	148	150	175
3	150	157	162	162	156	146	136	142	142	148	158	173	189	203	206	213	206	209	191	188	176	177	180	176	178	173
4	178	171	173	172	170	163	158	155	144	146	155	164	185	199	215	220	212	205	200	190	164	152	163	171	171	176
5	170	168	166	166	167	168	162	159	150	153	155	164	174	188	202	208	210	200	193	186	184	183	178	176	172	176
6	172	174	165	164	159	153	149	149	149	151	162	174	182	190	193	198	203	202	190	182	182	182	181	180	176	175
7	176	175	170	171	163	155	148	147	143	142	155	170	185	200	207	208	206	202	202	194	188	196	179	168	168	177
8	168	178	162	162	162	155	141	140	142	145	153	162	177	189	201	201	198	188	188	182	182	182	182	182	171	172
9 Q	171	168	168	167	163	160	147	140	144	150	165	181	195	196	199	201	201	194	189	188	188	188	181	183	170	176
10 Q	170	168	168	161	162	161	157	154	153	155	162	175	183	190	196	195	194	188	186	182	187	188	180	171	174	175
11	174	166	167	168	169	163	157	168	168	170	178	184	195	212	215	211	214	208	215	208	201	186	184	162	164	**185**
12	164	160	153	148	149	146	143	143	149	159	170	183	196	207	203	195	192	188	183	187	188	190	188	184	183	174
13	183	183	181	174	149	139	143	148	155	154	170	178	197	203	207	201	195	190	188	190	195	188	188	184	181	178
14	181	176	174	170	166	155	147	151	148	149	152	177	202	208	209	209	208	202	175	168	183	183	182	178	179	177
15	179	178	174	183	166	170	155	148	143	166	170	175	188	207	212	210	201	189	180	176	176	177	174	168	172	178
16	172	174	190	164	162	157	155	154	143	141	143	155	176	195	207	206	195	188	181	175	175	176	178	180	172	173
17	172	182	168	165	163	159	147	141	141	149	156	174	190	196	197	194	189	181	179	178	179	182	181	179	172	173
18	172	175	175	170	170	159	158	155	164	162	175	182	188	202	206	195	188	184	183	183	182	179	174	169	167	177
19 Q	167	168	167	170	170	164	149	143	141	140	149	169	188	200	209	201	194	186	182	180	177	178	176	175	175	173
20 Q	175	175	171	172	170	164	159	150	143	141	154	175	194	206	206	203	200	188	188	186	183	184	186	180	175	177
21 Q	175	169	174	169	165	162	161	155	149	156	164	174	181	186	195	198	193	195	194	184	181	172	176	181	176	175
22	176	170	168	166	165	161	155	155	150	157	167	174	183	196	206	204	194	186	182	181	180	179	178	179	177	176
23 D	177	176	176	175	168	163	157	137	141	153	162	181	210	211	216	220	220	196	186	195	153	178	176	182	164	179
24 D	164	148	140	162	168	183	178	182	179	188	168	172	182	187	187	184	175	176	180	182	181	181	174	170	172	175
25 D	172	168	156	162	162	164	156	153	154	164	155	168	175	196	195	196	197	182	190	194	190	178	179	176	166	174
26 D	166	155	140	147	149	164	167	157	165	155	156	161	177	185	188	188	190	187	181	175	162	170	170	170	172	168
27	172	168	162	161	161	155	150	148	151	155	162	170	182	197	201	196	190	182	178	181	177	169	170	175	175	171
28 D	175	172	168	169	167	169	148	143	141	149	168	180	200	215	215	203	200	192	191	170	166	169	165	182	168	176
29	168	149	159	167	165	159	155	157	156	149	149	163	184	202	210	198	195	188	184	182	184	175	165	159	159	172
30	159	159	150	158	171	150	141	141	143	151	159	173	187	198	200	195	178	170	168	173	173	168	156	162	162	**166**
31	162	168	168	161	163	159	153	149	147	149	156	168	184	198	203	196	184	182	175	174	175	174	172	170	168	171
Mean	171	169	166	166	164	159	153	150	**150**	154	161	173	188	199	**204**	202	198	191	186	183	180	178	176	174	171	175

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

295. Eskdalemuir. (Z.) 44,000 γ (·44 C.G.S. unit) + **July, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	878	878	879	879	880	879	880	878	877	875	870	865	860	865	871	873	875	876	881	881	877	875	874	874	870	875
2	870	868	869	870	872	871	868	862	861	853	852	846	841	845	857	863	869	875	878	874	874	878	865	857	860	**864**
3	860	865	868	868	869	871	873	873	873	867	859	852	849	852	857	861	869	875	881	883	881	877	873	872	870	868
4	870	868	869	870	872	873	873	870	869	868	864	852	847	848	855	864	872	880	882	885	882	881	876	872	869	869
5	869	869	869	871	872	870	869	868	865	861	857	854	858	859	862	866	872	875	876	877	877	873	870	867	868	868
6	868	868	869	870	872	873	873	870	866	860	859	860	863	860	859	861	864	865	878	884	881	875	872	871	871	868
7	871	872	872	871	871	869	864	862	860	860	858	858	859	859	859	860	866	871	873	877	879	876	869	871	870	867
8	870	861	863	867	868	871	870	870	866	862	859	859	859	862	867	867	868	870	871	874	871	871	871	868	865	867
9 Q	865	866	867	867	868	869	871	871	868	863	862	859	858	860	860	865	871	873	871	874	871	871	874	871	866	867
10 Q	866	867	867	869	870	871	871	869	865	862	865	862	857	854	855	859	863	868	871	871	871	871	871	869	865	866
11	865	862	865	865	865	865	868	862	858	860	858	853	847	848	848	858	869	874	874	878	878	878	876	877	873	865
12	873	872	867	867	869	870	868	863	861	859	852	849	851	856	861	866	867	869	870	870	870	870	869	869	869	865
13	869	869	869	869	870	871	867	869	870	867	864	862	861	865	866	869	874	879	882	882	879	879	875	873	873	871
14	873	874	874	873	870	870	870	869	869	870	872	870	858	853	856	861	869	878	891	889	883	879	875	874	873	872
15	873	874	874	872	873	873	872	869	869	865	861	861.	861	863	865	870	877	881	881	880	877	877	877	877	866	872
16	866	866	855	843	861	865	866	867	861	862	863	860	860	860	860	865	872	878	878	881	881	881	880	881	876	867
17	876	867	866	872	877	881	881	880	881	879	870	869	869	875	881	882	887	890	890	882	881	881	880	878	877	878
18	877	877	877	880	881	881	881	878	877	872	865	863	860	864	870	877	885	888	889	887	886	885	882	881	881	878
19 Q	881	881	881	881	882	882	881	880	880	877	871	866	863	864	869	880	886	886	885	884	881	881	881	881	881	879
20 Q	881	880	880	880	880	882	881	880	877	877	875	867	859	863	871	879	885	888	890	889	887	884	881	881	880	879
21 Q	880	880	880	880	882	881	882	877	880	877	872	868	868	868	871	873	880	885	886	889	889	887	884	881	880	879
22	880	881	881	882	884	884	885	882	881	880	878	876	872	869	876	876	884	882	883	884	885	885	883	882	881	881
23 D	881	880	880	877	874	876	873	872	871	865	860	863	862	867	867	876	905	947	941	925	927	898	891	885	846	885
24 D	846	850	868	872	876	881	886	886	888	886	890	885	879	876	880	888	892	890	892	892	892	891	890	889	886	883
25 D	886	879	876	880	878	877	877	876	877	876	878	880	880	884	906	912	925	927	923	916	910	902	891	888	854	**891**
26 D	854	847	851	855	860	868	871	875	872	869	871	871	867	873	886	889	891	890	893	893	899	894	892	889	880	876
27	880	877	880	881	884	888	889	885	885	886	884	881	880	880	880	880	884	889	889	889	891	893	892	889	889	885
28 D	889	888	885	884	882	867	863	870	869	868	871	866	869	870	889	892	894	893	897	905	899	895	876	846	853	879
29	853	872	880	880	877	880	880	877	877	880	881	877	876	877	881	891	900	902	896	889	889	892	889	886	880	883
30	880	865	871	876	871	875	880	882	884	883	880	876	871	873	880	885	889	890	892	890	891	893	892	889	886	882
31	886	881	880	885	886	888	889	886	884	880	880	880	877	876	877	882	888	892	893	893	890	889	889	889	889	885
Mean	872	871	872	873	874	875	875	873	872	870	868	865	**863**	864	869	874	880	885	**886**	886	885	883	879	877	872	875

DAILY EXTREMES OF EACH COMPONENT OF TERRESTRIAL MAGNETIC FORCE: MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE.

296. Eskdalemuir. **July, 1931.**

Day.	North Component. Maximum 15000 γ +		North Component. Minimum 15000 γ +		North Range.	West Component. Maximum 4000 γ +		West Component. Minimum 4000 γ +		West Range.	Vertical Component. Maximum 44000 γ +		Vertical Component. Minimum 44000 γ +		Vertical Range.	Character Figure ΣR²/100γ² §	Magnetic Character of Day (0–2)	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ			°A.
1	17 59	1082	1021	11 1	61	14 37	215	147	6 38	68	18 42	882	859	12 14	23	89	1	83·7
2	18 40	1108	1016	13 41	92	15 5	225	129	21 50	96	21 20	882	840	11 46	42	194	1	83·7
3	19 43	1091	1022	13 58	69	14 49	218	130	6 10	88	18 30	885	848	11 31	37	139	1	83·8
4	20 18	1110	1015	11 45	95	14 54	222	138	7 58	84	18 50	885	846	12 0	39	176	1	83·9
5	21 30	1087	1005	11 49	82	15 40	212	149	8 11	63	19 15	878	852	11 10	26	114	0	83·9
6	18 38	1093	1021	12 6	72	16 26	208	146	8 20	62	19 5	884	858	14 30	26	97	0	83·9
7	21 15	1102	1025	10 53	77	15 42	214	141	7 24	73	20 40	880	857	10 42	23	118	1	83·9
8	18 39	1079	1031	11 32	48	15 3	202	135	6 39	67	18 58	874	858	11 0	**16**	70	0	83·9
9 Q	20 43	1083	1029	12 28	54	16 20	204	136	7 32	68	18 35	874	857	12 0	17	78	0	84·1
10 Q	22 52	1083	1028	11 23	55	14 40	198	150	7 42	**48**	18 24	872	854	13 8	18	57	0	84·1
11	18 8	1108	1028	11 56	80	13 56	224	155	5 58	69	20 30	879	847	13 35	32	122	1	84·1
12	19 57	1090	1024	11 28	66	13 0	209	141	5 53	68	0 42	874	847	11 8	27	97	1	84·1
13	19 38	1101	1024	10 58	77	14 0	208	129	5 19	79	18 24	884	861	12 2	23	127	1	84·1
14	16 55	1099	978	10 48	121	14 30	217	141	7 40	76	17 58	891	852	12 39	39	219	1	84·3
15	22 42	1085	984	8 58	101	14 3	217	130	8 5	87	17 39	882	860	10 10	22	183	1	84·3
16	23 50	1088	1014	11 28	74	2 9	222	136	9 12	86	19 5	884	834	2 34	50	154	1	84·3
17	23 59	1080	1024	12 4	56	14 18	201	135	7 25	66	17 4	890	864	1 38	26	82	0	84·3
18	17 54	1084	1025	10 32	59	13 50	209	148	7 3	61	18 12	890	860	12 2	30	81	0	84·3
19 Q	16 42	1075	1024	10 10	51	14 9	213	141	8 20	72	16 5	886	862	12 40	24	84	0	84·5
20 Q	18 43	1088	1025	12 5	63	13 48	208	137	8 30	71	18 0	890	859	12 0	31	100	0	84·5
21 Q	18 0	1085	1021	11 22	64	14 58	202	147	7 48	55	19 16	890	867	12 55	23	77	0	84·5
22	19 44	1072	1024	10 23	48	14 20	208	148	7 59	60	20 20	885	868	13 0	17	62	0	84·5
23 D	16 39	**1139**	977	10 58	**162**	15 52	**235**	**128**	19 53	**107**	17 22	**958**	846	24 0	**112**	502	2	84·5
24 D	15 10	1074	**967**	9 32	107	13 45	194	134	2 19	60	19 0	893	**831**	0 27	62	189	1	84·5
25 D	23 33	1106	990	11 9	116	13 40	222	137	24 0	85	16 34	928	850	24 0	78	268	1	84·7
26 D	23 36	1081	981	0 22	100	14 1	199	**128**	1 50	71	20 0	901	843	0 52	58	184	1	84·7
27	16 11	1078	1012	12 9	66	13 45	203	147	7 28	56	20 38	894	876	0 45	18	78	1	84·7
28 D	21 18	1108	981	11 40	127	13 44	**235**	**128**	7 46	**107**	19 8	907	841	23 30	66	319	1	84·7
29	21 50	1081	1011	11 15	70	13 39	215	147	0 50	68	17 20	903	853	0 1	50	120	1	84·7
30	21 31	1077	1001	11 8	76	13 13	208	135	6 11	73	21 23	895	864	1 19	31	121	1	84·7
31	18 12	1063	1016	10 32	**47**	14 20	207	142	7 43	65	17 25	894	876	12 32	18	68	0	84·8
Mean	—	1090	1011	—	79	—	212	139	—	73	—	890	855	—	36	141	0·65	84·3
No. of Days used.	—	31	31	—	31	—	31	31	—	31	—	31	31	—	31	31	31	31

§ For explanation *see* page 169. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

297. Eskdalemuir. (X.) 15,000 γ (·15 C.G.S. unit) + **August, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1057	1058	1058	1054	1055	1062	1060	1056	1047	1044	1043	1043	1046	1048	1046	1053	1052	1056	1071	1069	1072	1076	1059	1056	1054	1056
2 Q	1054	1053	1053	1055	1055	1056	1053	1046	1040	1033	1023	1018	1016	1024	1041	1057	1058	1063	1066	1061	1059	1059	1061	1060	1072	1049
3	1072	1071	1078	1078	1065	1073	1056	1034	1041	1040	1028	1012	1017	1027	1035	1040	1051	1057	1062	1063	1065	1063	1062	1061	1062	1052
4	1062	1058	1053	1058	1060	1062	1058	1048	1034	1028	1022	1014	1016	1027	1032	1043	1056	1063	1060	1068	1062	1055	1059	1059	1059	1048
5	1059	1059	1059	1055	1062	1060	1058	1052	1044	1037	1023	1019	1019	1032	1043	1037	1059	1069	1057	1056	1060	1052	1056	1050	1052	1049
6	1052	1054	1060	1055	1052	1059	1055	1050	1042	1031	1030	1022	1036	1029	1027	1039	1047	1053	1065	1072	1065	1065	1065	1068	1070	1050
7	1070	1069	1070	1075	1074	1079	1076	1070	1061	1044	1034	1014	1022	1029	1028	1037	1043	1055	1057	1064	1064	1060	1064	1074	1074	1056
8 D	1074	1063	1070	1053	1063	1040	1059	1062	1054	1033	1038	1012	1018	1031	1044	1041	1069	1056	1069	1064	1069	1065	1062	1057	1062	1053
9 D	1062	1044	1046	1050	1068	1072	1050	1033	1030	1044	1035	1010	1007	1025	1046	1056	1058	1045	1054	1060	1083	1074	1046	1046	1047	1047
10	1047	1049	1051	1050	1052	1051	1048	1048	1043	1039	1028	1023	1024	1034	1041	1050	1045	1043	1057	1060	1063	1070	1070	1055	1064	1048
11	1064	1055	1054	1055	1031	1055	1031	1048	1051	1033	1023	1013	1017	1030	1036	1040	1040	1046	1060	1072	1064	1058	1055	1055	1057	1045
12 Q	1057	1058	1057	1052	1056	1055	1052	1047	1040	1040	1028	1025	1040	1041	1047	1042	1048	1054	1055	1057	1067	1062	1057	1061	1062	1050
13	1062	1066	1056	1052	1054	1055	1056	1055	1047	1037	1034	1039	1051	1061	1066	1075	1042	1057	1061	1066	1065	1064	1062	1061	1057	1056
14	1057	1057	1059	1059	1051	1046	1061	1056	1046	1027	1033	1030	1043	1044	1053	1051	1053	1057	1062	1061	1062	1065	1057	1056	1056	1052
15	1056	1056	1056	1052	1055	1056	1059	1057	1048	1042	1035	1032	1033	1034	1045	1052	1056	1065	1070	1067	1066	1066	1060	1052	1054	1053
16	1054	1060	1064	1052	1052	1059	1061	1056	1048	1041	1031	1027	1007	1015	1051	1061	1065	1063	1054	1057	1067	1071	1066	1067	1059	1052
17 Q	1059	1052	1053	1056	1056	1057	1048	1041	1035	1030	1028	1027	1036	1044	1047	1053	1062	1058	1058	1062	1062	1063	1063	1068	1064	1051
18 Q	1064	1057	1057	1057	1058	1059	1061	1053	1052	1044	1027	1021	1023	1027	1034	1043	1053	1059	1060	1063	1067	1071	1066	1068	1064	1052
19	1064	1081	1063	1064	1072	1070	1067	1068	1057	1039	1014	1002	1013	1035	1059	1070	1068	1067	1072	1076	1072	1073	1077	1046	1052	1058
20 D	1052	1073	1065	1060	1065	1073	1012	991	1028	1046	1024	1010	1007	1036	1044	1041	1062	1048	1072	1074	1072	1055	1058	1056	1055	1047
21 D	1055	1057	1056	1051	1049	1032	1054	1041	1042	1041	1028	1016	1010	1039	1051	1045	1064	1073	1061	1064	1062	1067	1070	1048	1051	1049
22	1051	1046	1049	1052	1053	1052	1049	1046	1039	1033	1039	1048	1053	1051	1054	1053	1053	1053	1064	1061	1059	1059	1059	1058	1058	1052
23	1058	1053	1048	1053	1058	1059	1052	1052	1045	1030	1034	1042	1049	1044	1046	1057	1048	1059	1053	1064	1063	1064	1065	1067	1077	1053
24	1077	1076	1059	1063	1060	1064	1068	1058	1049	1043	1043	1043	1048	1050	1046	1049	1063	1064	1068	1065	1063	1068	1059	1050	1063	**1058**
25 D	1063	1058	1060	1053	1014	1034	1068	1038	1023	1024	1021	1007	998	1022	1039	1033	1066	1078	1068	1077	1055	1059	1068	1053	1051	**1045**
26	1051	1049	1047	1046	1051	1050	1047	1048	1035	1015	1021	1019	1023	1051	1050	1058	1065	1063	1063	1064	1075	1065	1069	1058	1053	1049
27	1053	1054	1045	1058	1064	1055	1048	1037	1031	1032	1041	1038	1038	1042	1043	1033	1069	1068	1064	1069	1065	1074	1063	1086	1085	1054
28	1085	1058	1045	1049	1049	1050	1049	1037	1009	1000	1024	1035	1024	1039	1043	1058	1050	1056	1061	1063	1064	1063	1059	1056	1056	1046
29	1056	1059	1051	1053	1054	1044	1044	1050	1044	1037	1031	1035	1035	1038	1042	1037	1040	1045	1053	1060	1067	1060	1058	1055	1054	1048
30 Q	1054	1052	1053	1053	1050	1053	1052	1049	1040	1031	1020	1019	1020	1030	1042	1050	1057	1061	1065	1069	1068	1065	1064	1059	1054	1049
31	1054	1058	1056	1064	1060	1060	1061	1063	1049	1039	1028	1028	1034	1036	1042	1044	1054	1059	1071	1062	1069	1066	1059	1059	1059	1053
Mean	1060	1059	1057	1056	1055	1057	1054	1048	1042	1035	1029	**1024**	1027	1036	1044	1048	1055	1059	1062	1065	**1066**	1064	1062	1059	1060	1051

TERRESTRIAL MAGNETIC FORCE: WEST COMPONENT.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

298. Eskdalemuir. (—Y.) 4,000 γ (·04 C.G.S. unit) + **August, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	168	168	167	163	157	155	148	148	151	156	163	180	195	203	199	190	188	186	186	181	180	164	158	162	166	171
2 Q	166	165	164	162	164	162	149	148	147	149	159	174	185	197	197	195	182	180	182	179	177	175	174	172	164	171
3	164	162	158	147	135	135	127	145	155	155	162	169	180	195	200	190	182	176	170	170	174	171	174	172	170	165
4	170	160	155	164	159	148	141	141	149	149	160	173	184	196	200	195	190	182	178	180	168	170	174	168	168	169
5	168	166	164	155	152	147	147	145	143	143	158	174	182	195	205	194	194	193	182	175	172	165	167	158	162	168
6	162	169	170	153	148	144	145	147	148	155	165	182	194	199	190	188	182	183	184	184	176	176	175	172	169	171
7	169	166	161	158	155	152	151	153	155	159	166	187	206	217	222	203	208	196	187	188	187	181	177	180	182	**179**
8 D	182	171	138	151	168	164	168	174	168	175	176	177	194	202	198	177	192	187	192	180	148	172	159	163	205	174
9 D	205	149	157	169	141	156	141	155	157	150	154	163	188	193	202	200	168	183	176	182	163	155	151	164	166	167
10	166	164	165	156	158	155	167	155	161	155	161	174	184	192	186	182	176	166	166	173	173	168	168	157	160	168
11	160	151	151	149	182	188	174	178	152	147	157	170	186	194	197	194	182	166	170	174	164	162	162	162	166	170
12 Q	166	166	172	162	159	146	141	141	139	141	149	161	177	184	190	182	180	178	175	174	170	177	175	168	165	166
13	165	162	153	155	156	155	157	160	159	155	162	174	182	182	182	186	170	175	180	182	180	178	170	167	166	169
14	166	167	170	170	173	175	164	155	153	155	164	181	194	195	194	184	175	168	166	163	162	163	168	170	170	171
15	170	169	168	169	168	156	155	153	151	149	157	166	185	194	196	192	182	180	175	174	175	154	155	155	158	168
16	158	172	168	162	168	154	153	149	147	141	151	170	182	211	223	223	210	202	180	168	168	169	156	155	155	172
17 Q	156	161	159	159	157	152	144	142	142	141	161	170	183	191	195	193	186	177	174	169	169	169	170	168	160	166
18 Q	160	165	171	165	163	157	155	156	148	152	153	169	188	198	203	197	195	187	176	175	173	175	169	175	172	172
19	172	169	148	146	150	148	143	141	142	145	158	175	195	203	206	196	191	183	181	181	163	175	157	150	149	167
20 D	149	144	156	164	169	161	150	196	182	165	159	169	179	185	199	197	176	177	183	152	150	156	160	166	179	169
21 D	179	162	157	163	171	176	173	187	173	154	163	169	185	197	196	191	171	163	167	168	163	163	165	142	148	170
22	148	156	157	162	162	156	154	148	144	147	163	177	189	196	196	184	175	161	169	166	164	158	164	168	169	166
23	169	170	183	175	162	156	149	145	142	143	158	178	193	199	197	189	176	171	166	170	171	171	171	169	160	170
24	160	163	163	162	168	167	155	142	142	144	160	173	190	203	203	197	195	181	167	178	181	177	158	144	154	170
25 D	154	156	156	122	166	148	142	138	144	144	154	170	176	198	216	199	183	183	167	164	168	166	168	163	161	165
26	161	157	158	166	157	145	145	142	139	143	169	183	187	189	191	187	187	179	171	163	164	175	197	175	136	167
27	136	136	152	148	141	142	136	136	136	144	156	169	180	195	203	175	191	189	176	175	175	162	148	144	122	**160**
28	122	113	122	156	156	149	144	136	141	149	161	171	189	203	201	191	179	171	169	167	163	163	165	163	171	161
29	171	180	171	163	157	160	157	154	149	148	155	177	194	207	211	201	189	171	164	163	146	153	155	165	167	169
30 Q	167	171	163	161	163	157	155	149	146	148	156	176	199	215	216	204	189	175	169	169	167	161	156	163	163	171
31	163	163	165	156	148	150	149	142	136	141	155	175	192	202	199	191	184	178	175	165	175	171	155	163	158	166
Mean	164	161	160	158	159	155	151	152	**150**	150	160	173	188	198	**200**	192	185	179	175	173	169	168	165	163	163	169

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

299. Eskdalemuir. (Z.) 44,000 γ (·44 C.G.S. unit) + **August, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	889	889	889	889	887	885	882	883	882	880	879	881	880	876	877	883	889	890	890	892	893	892	891	889	889	886
2 Q	889	890	889	889	890	890	890	891	889	883	882	878	870	864	872	885	891	893	894	894	892	890	889	889	887	886
3	887	886	885	879	876	873	876	877	872	870	869	873	877	873	879	890	893	897	897	894	893	890	890	889	890	**883**
4	890	890	890	890	890	894	891	890	888	891	890	884	874	871	881	887	892	896	898	896	899	899	895	894	892	890
5	892	892	891	891	888	890	891	891	890	890	883	878	874	875	882	887	890	899	908	913	911	908	903	900	897	892
6	897	894	887	890	891	891	890	887	889	886	872	866	862	866	879	883	887	890	890	895	896	895	894	891	890	886
7	890	890	890	890	889	887	887	888	890	892	887	886	883	885	896	912	917	928	927	912	903	899	899	895	883	897
8 D	883	850	859	875	879	881	877	878	882	882	883	878	873	878	886	903	908	905	905	920	926	899	882	887	868	886
9 D	868	839	851	826	845	862	874	882	883	881	878	878	878	883	895	908	928	917	915	911	899	899	896	895	895	884
10	895	893	891	893	895	892	892	891	892	894	893	892	891	895	896	900	904	911	908	902	900	898	885	885	874	895
11	874	858	868	873	865	849	853	856	869	876	883	884	879	886	897	900	904	908	907	904	907	904	902	899	897	884
12 Q	897	895	892	891	892	895	896	896	894	885	872	870	871	881	886	894	895	898	898	895	895	896	898	896	895	891
13	895	889	887	889	891	894	895	896	895	893	890	888	884	884	891	901	905	904	904	901	900	899	897	896	896	895
14	896	896	896	896	895	891	887	891	888	887	884	878	872	878	891	898	901	904	901	900	900	896	896	895	896	892
15	896	896	896	896	895	896	896	895	892	891	891	887	880	883	889	898	903	901	900	897	896	900	897	895	892	894
16	892	878	871	872	873	879	882	887	888	887	886	881	883	883	885	896	904	912	920	918	909	903	901	883	880	890
17 Q	880	888	891	892	896	897	900	900	897	895	887	887	887	886	893	901	906	908	908	904	901	900	897	895	894	896
18 Q	894	893	892	895	897	900	900	897	896	889	887	879	875	878	885	895	899	901	905	903	900	898	897	892	892	894
19	892	878	877	878	875	880	884	887	887	888	887	886	882	879	884	888	893	897	900	901	905	901	891	879	884	887
20 D	884	884	883	884	883	883	888	874	867	873	879	883	884	883	891	909	917	918	914	918	913	902	892	887	879	891
21 D	879	875	888	891	888	879	872	871	873	879	879	878	882	887	912	921	921	921	913	912	909	904	885	878	883	892
22	883	891	894	895	896	899	900	900	897	894	883	875	873	880	887	890	896	903	903	900	901	903	900	897	896	894
23	896	896	891	888	888	891	894	896	896	893	887	882	879	887	899	906	906	905	906	904	900	900	901	900	895	895
24	895	886	892	893	893	892	892	892	892	888	883	881	880	881	888	893	896	904	915	910	910	910	914	900	889	895
25 D	889	897	901	894	866	852	864	876	880	880	883	881	893	901	907	927	929	927	932	922	916	910	895	892	898	897
26	898	901	902	900	893	897	901	901	898	896	889	887	889	892	897	902	905	905	909	916	910	906	884	871	886	898
27	886	890	896	898	898	901	901	901	900	894	892	889	891	892	897	910	909	913	911	908	906	905	901	888	875	899
28	875	851	863	875	885	894	897	901	899	892	885	888	889	894	906	914	913	913	909	905	904	903	902	903	902	895
29	902	894	893	899	902	899	901	898	898	899	897	894	894	897	901	906	910	910	909	908	910	906	905	902	902	901
30 Q	902	899	902	904	906	904	906	907	907	903	899	890	885	885	891	898	904	907	907	906	906	906	905	903	903	901
31	903	903	903	898	902	902	903	903	902	902	896	887	888	891	899	904	906	909	910	915	909	908	906	905	905	**902**
Mean	890	886	887	888	887	888	889	890	889	888	885	882	**881**	883	891	900	904	906	**907**	906	904	901	896	893	890	893

DAILY EXTREMES OF EACH COMPONENT OF TERRESTRIAL MAGNETIC FORCE: MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE.

300. Eskdalemuir. **August, 1931.**

Day.	North Component. Maximum 15000 γ + h. m.	γ	North Minimum 15000 γ + γ	h. m.	Range. γ	West Component. Maximum 4000 γ + h. m.	γ	West Minimum 4000 γ + γ	h. m.	Range. γ	Vertical Component. Maximum 44000 γ + h. m.	γ	Vertical Minimum 44000 γ + γ	h. m.	Range. γ	Character Figure ΣR²/100γ² §	Magnetic Character of Day (0–2)	Temperature in Magnet House 200 + A°.
1	20 56	1099	1033	14 18	66	13 10	208	146	6 41	62	20 42	894	875	13 20	**19**	86	0	84·8
2 Q	23 52	1079	1013	12 0	66	13 18	201	145	8 5	56	18 20	894	863	13 0	31	85	0	84·9
3	3 19	1084	1003	11 30	81	14 13	202	121	5 32	81	17 40	898	868	9 52	30	140	0	84·9
4	19 2	1078	1008	10 51	70	13 38	209	137	7 8	72	20 25	903	870	13 0	33	112	1	84·9
5	16 35	1079	1011	11 2	68	14 38	214	141	8 25	73	18 49	914	873	12 24	41	116	1	84·9
6	18 37	1081	1012	10 55	69	12 46	203	141	5 24	62	19 37	898	861	12 19	37	100	0	84·9
7	23 22	1085	1006	14 4	79	13 45	235	138	5 1	97	17 15	929	882	12 12	47	179	1	84·9
8 D	21 7	1098	1003	11 3	95	24 0	215	121	19 30	94	19 33	933	847	1 19	86	253	2	85·0
9 D	20 9	**1138**	994	12 8 / 12 40	144	0 20	**241**	114	20 22	127	15 46	933	**819**	2 49	**114**	499	1	85·0
10	21 38	1095	1015	11 14	80	13 0	196	143	7 15	53	17 12	912	874	24 0	38	107	1	85·0
11	18 59	1078	1001	12 26	77	14 10	206	140	1 18	66	17 18	911	847	5 11	64	144	1	85·0
12 Q	20 0	1073	1020	10 49	53	13 48	194	134	6 32 / 8 23	60	18 18	900	870	10 40	30	73	1	85·0
13	18 40	1082	1031	16 11	51	14 30	189	148	2 27	**41**	17 30	906	882	12 30	24	49	0	85·1
14	20 34	1089	1020	8 57	69	13 3	201	141	7 41	60	17 10	904	871	12 4	33	95	0	85·1
15	18 23	1076	1029	12 55	47	14 3	202	145	21 7	57	15 50	903	879	12 20	24	60	0	85·1
16	22 19	1101	995	11 48	106	14 27	229	131	22 49	98	18 20	921	869	3 20	52	235	1	85·1
17 Q	23 20	1082	1025	10 51	57	14 18	197	138	7 18	59	16 20	909	879	0 1	30	76	0	85·1
18 Q	20 49	1077	1017	11 18	60	13 45	207	142	8 3	65	18 4	907	874	12 0	33	89	0	85·2
19	0 53	1104	992	11 7	112	13 31	210	135	5 55	75	20 27	907	869	1 20	38	196	1	85·2
20 D	19 18	1128	**966**	11 27	**162**	15 8	213	108	19 10	105	16 45	922	866	8 10	56	404	2	85·2
21 D	16 6	1103	977	11 38	126	14 42	211	121	23 4	90	16 25	923	869	0 34	54	269	1	85·2
22	17 30	1073	1030	9 18	**43**	13 47	203	142	8 25	61	17 10	904	871	11 51	33	67	0	85·3
23	15 24	1075	1018	9 9	57	12 53	203	136	7 34	67	15 33	908	879	12 7	29	86	1	85·3
24	0 30	1088	1032	22 37	56	13 20	210	116	23 13	94	18 3	917	880	12 20	37	133	1	85·3
25 D	18 32	1112	971	11 30	141	14 6	230	102	2 53	**128**	17 53	**935**	833	4 27	102	467	2	85·3
26	22 29	1100	1008	9 20	92	21 58	212	128	23 56	84	18 50	919	864	22 34	55	185	1	85·4
27	24 0	1096	1010	14 52	86	13 30	211	95	23 58	116	17 3	915	876	24 0	39	224	1	85·4
28	0 4	1100	989	8 57	111	13 32	215	**89**	0 12	126	15 6	916	850	0 51	66	326	1	85·4
29	20 10	1075	1029	9 50	46	14 10	216	142	20 12	74	16 20	911	890	1 35	21	80	1	85·4
30 Q	18 36	1075	1015	10 52	60	13 33	219	142	8 11	77	17 45	908	884	12 10	24	101	0	85·4
31	20 36	1084	1020	10 37	64	13 33	203	135	8 25	68	18 54	916	885	11 20	31	97	0	85·4
Mean	—	1090	1009	—	80	—	210	131	—	79	—	912	868	—	44	165	0·71	85·1
No. of Days used.	—	31	31	—	31	—	31	31	—	31	—	31	31	—	31	31	31	31

§ For explanation *see* page 169. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

301. Eskdalemuir. (X.) 15,000 γ (·15 C.G.S. unit) + **September, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1060	1054	1059	1063	1062	1052	1066	1066	1044	1024	1025	1021	1019	1025	1034	1044	1044	1052	1060	1060	1067	1057	1057	1079	1063	1050
2 Q	1063	1060	1058	1056	1055	1055	1055	1052	1044	1032	1025	1023	1025	1034	1044	1051	1055	1058	1064	1066	1065	1066	1066	1063	1065	1051
3	1065	1067	1063	1064	1061	1065	1071	1070	1065	1062	1040	1036	1036	1036	1043	1051	1040	1047	1056	1075	1077	1071	1072	1081	1086	**1059**
4 D	1086	1086	1100	1036	1040	1074	1054	1035	1045	1029	992	986	994	1011	1049	1042	1055	1054	1090	1059	1052	1058	1054	1052	1047	1046
5	1047	1046	1037	1045	1035	1051	1053	1053	1045	1024	1016	1020	1019	1027	1039	1050	1051	1056	1060	1061	1075	1050	1061	1060	1054	1045
6 D	1054	1055	1055	1040	1050	1051	1059	1056	1018	968	976	1001	995	994	1014	1040	1055	1062	1050	1057	1056	1071	1075	1043	1038	1037
7	1038	1050	1030	1016	1038	1062	1055	1041	1007	1035	1028	1024	1013	1022	1032	1036	1039	1050	1055	1080	1053	1056	1055	1055	1053	1041
8	1054	1054	1052	1048	1047	1045	1039	1046	1034	1020	1020	1006	1015	1027	1031	1042	1044	1039	1057	1052	1054	1062	1058	1041	1065	1041
9	1065	1055	1056	1056	1072	1056	1062	1046	1027	1020	1036	1031	1034	1037	1044	1031	1042	1056	1055	1057	1041	1060	1056	1042	1053	1047
10	1053	1051	1052	1054	1052	1051	1044	1047	1036	1019	1011	1011	1014	1030	1039	1045	1042	1047	1056	1052	1052	1054	1056	1056	1052	1043
11	1052	1061	1058	1067	1055	1053	1052	1056	1041	1019	1010	1006	1031	1040	1041	1050	1048	1056	1062	1065	1062	1061	1059	1059	1056	1049
12	1056	1069	1057	1053	1055	1053	1051	1044	1035	1025	1013	1017	1035	1045	1036	1035	1050	1056	1058	1056	1057	1053	1056	1054	1054	1047
13	1054	1052	1051	1051	1052	1047	1050	1042	1041	1034	1024	1028	1041	1041	1041	1050	1051	1049	1054	1060	1062	1061	1055	1055	1057	1048
14	1057	1056	1056	1055	1056	1060	1064	1057	1046	1040	1021	1015	1015	1033	1035	1050	1056	1057	1057	1053	1050	1075	1076	1046	1046	1049
15 D	1047	1049	1043	1063	1046	1052	1060	1062	1052	1030	969	985	1012	1028	1029	1012	1032	1027	1033	1037	1040	1048	1052	1058	1052	1036
16 D	1052	1045	1042	1058	1041	1047	1037	1032	1009	1004	1017	1023	1018	1017	1035	1032	1022	1057	1057	1058	1060	1067	1082	1083	1039	1041
17 D	1039	1007	1032	1047	1027	1032	1037	1012	1013	1007	1005	1002	1001	1012	1030	1040	1051	1046	1055	1058	1062	1058	1055	1052	1050	**1033**
18 Q	1050	1049	1048	1048	1047	1050	1049	1047	1043	1037	1022	1013	1026	1028	1024	1034	1039	1047	1053	1056	1055	1057	1057	1061	1063	1044
19 Q	1063	1053	1052	1055	1056	1057	1053	1051	1047	1038	1022	1016	1015	1021	1032	1039	1043	1049	1047	1047	1052	1060	1060	1059	1056	1045
20	1056	1057	1066	1066	1066	1060	1060	1062	1054	1046	1035	1033	1037	1042	1051	1045	1045	1067	1051	1048	1035	1048	1059	1046	1006	1050
21	1006	1032	1022	1043	1048	1058	1053	1019	1031	1027	1030	1017	1005	1018	1042	1050	1051	1053	1057	1057	1063	1048	1052	1071	1062	1041
22	1062	1057	1032	1047	1053	1042	1045	1058	1045	1036	1028	1027	1032	1030	1036	1052	1054	1065	1058	1043	1054	1052	1053	1060	1052	1047
23	1052	1053	1062	1055	1060	1057	1057	1062	1052	1043	1035	1032	1030	1037	1046	1032	1047	1055	1054	1057	1057	1058	1058	1070	1083	1052
24	1083	1069	1057	1046	1059	1047	1054	1043	1025	1027	1030	1029	1029	1018	1032	1047	1051	1053	1052	1057	1058	1063	1062	1056	1054	1047
25	1054	1055	1057	1050	1052	1052	1053	1053	1047	1043	1043	1041	1036	1037	1037	1042	1043	1053	1061	1057	1054	1047	1071	1069	1052	1050
26	1052	1057	1061	1063	1060	1047	1053	1052	1046	1032	1033	1035	1035	1033	1033	1043	1048	1047	1057	1063	1055	1052	1056	1057	1062	1049
27	1062	1063	1069	1066	1061	1052	1052	1047	1043	1040	1037	1041	1039	1036	1042	1039	1046	1057	1057	1062	1055	1055	1059	1054	1056	1051
28 Q	1056	1057	1057	1053	1053	1055	1056	1056	1052	1043	1033	1033	1031	1034	1039	1044	1050	1056	1057	1057	1068	1060	1060	1060	1058	1051
29 Q	1058	1056	1056	1057	1058	1061	1063	1061	1057	1046	1037	1032	1033	1046	1052	1057	1057	1061	1063	1066	1076	1071	1074	1073	1072	1057
30	1072	1070	1069	1072	1071	1067	1067	1062	1060	1052	1040	1022	1027	1025	1026	1006	1028	1048	1057	1051	1053	1054	1055	1047	1072	1050
Mean	1056	1055	1054	1053	1053	1054	1054	1050	1040	1030	1022	**1020**	1023	1029	1037	1041	1046	1053	1057	1058	1057	1058	**1061**	1059	1056	1047

TERRESTRIAL MAGNETIC FORCE: WEST COMPONENT.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

302. Eskdalemuir. (—Y.) 4,000 γ (·04 C.G.S. unit) + **September, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	158	196	167	155	148	168	148	149	142	147	143	157	178	191	196	194	188	176	169	167	164	165	164	169	163	167
2 Q	163	156	153	157	156	159	153	149	140	141	152	169	184	195	196	193	184	177	175	175	173	169	169	163	163	167
3	164	162	161	162	159	157	149	139	142	149	167	185	197	209	213	212	199	198	188	187	184	178	174	163	142	**174**
4 D	142	159	111	137	177	162	152	154	150	150	169	182	195	212	188	186	186	156	146	164	149	157	161	164	172	163
5	172	176	170	178	161	160	152	145	144	143	147	172	195	197	193	189	177	170	164	154	144	144	156	163	164	165
6 D	164	177	174	172	177	150	149	144	149	170	185	183	190	192	194	190	164	144	163	169	169	129	161	148	164	167
7	164	163	156	185	148	150	141	144	148	156	158	170	169	178	182	176	172	168	146	146	158	158	163	162	163	161
8	163	163	162	160	157	152	162	162	154	162	164	170	182	193	199	195	187	162	148	144	144	117	122	137	152	161
9	152	131	131	146	141	146	145	146	156	168	170	178	188	191	192	176	168	164	142	122	145	144	139	139	172	155
10	172	164	152	148	151	159	145	144	143	144	160	182	190	197	190	184	178	162	137	157	164	164	164	164	161	163
11	161	170	162	157	148	151	151	150	151	161	170	184	188	195	186	178	170	165	166	170	167	160	163	163	164	166
12	164	164	149	148	151	151	151	148	144	150	164	177	192	204	197	179	170	168	168	144	156	160	158	157	157	163
13	157	163	163	164	157	162	160	162	159	155	165	176	188	189	182	178	174	166	156	167	167	165	161	163	164	167
14	164	162	166	167	171	160	162	152	150	156	165	176	191	206	200	192	196	179	151	161	157	137	134	136	151	166
15 D	151	138	163	184	154	157	152	146	145	150	160	179	199	209	217	211	205	185	172	111	137	156	123	145	137	164
16 D	137	154	143	125	150	144	149	154	150	158	167	166	178	172	177	186	168	172	174	169	165	145	121	117	112	**155**
17 D	112	143	174	162	184	212	174	170	169	157	157	156	154	169	181	179	169	168	160	148	143	144	146	150	162	163
18 Q	162	157	157	158	158	159	157	150	143	143	150	157	166	176	169	170	169	169	168	164	164	151	152	157	164	159
19 Q	164	156	157	162	163	162	158	154	150	149	157	166	177	184	188	182	177	172	170	159	165	164	150	151	157	164
20	157	168	160	151	152	150	150	150	148	148	151	162	172	184	191	186	179	184	169	127	156	150	162	142	184	161
21	185	147	104	124	151	145	144	145	152	139	152	177	186	185	183	178	167	165	167	168	155	158	164	165	155	158
22	155	144	145	134	133	149	163	153	143	143	155	167	190	192	185	181	173	173	170	158	172	133	170	152	152	160
23	152	152	153	148	142	140	153	148	144	150	155	163	178	187	202	185	171	173	170	166	165	159	164	151	159	161
24	159	123	124	141	146	165	157	151	148	145	157	166	185	185	185	169	165	171	166	164	163	149	158	157	160	158
25	160	173	159	161	163	159	159	152	149	145	157	166	179	189	178	175	172	171	171	171	165	157	170	137	151	164
26	151	157	159	164	155	153	157	151	149	151	153	165	171	173	171	172	173	169	166	151	153	157	158	159	153	160
27	153	158	131	124	140	145	147	145	146	145	151	164	178	179	185	178	175	171	169	140	152	159	159	157	161	156
28 Q	161	158	159	155	157	158	157	152	146	145	152	161	171	179	180	180	179	178	177	168	162	164	162	158	153	163
29 Q	153	157	158	159	159	158	157	152	146	144	151	164	173	181	182	181	179	178	180	171	158	171	170	166	163	165
30	163	159	165	160	159	159	159	155	148	143	154	166	193	202	213	204	181	171	166	162	165	155	147	158	122	166
Mean	158	158	153	155	156	157	154	150	**148**	150	159	170	183	**190**	**190**	185	177	171	164	157	159	154	155	154	157	163

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

303. Eskdalemuir. (Z.) 44,000 γ (·44 C.G.S. unit) + **September, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	906	895	877	894	898	895	898	902	903	904	898	893	889	890	895	898	905	908	911	909	908	908	907	898	895	899
2 Q	895	898	902	902	903	904	907	908	909	908	903	898	893	891	894	898	903	904	903	904	904	904	903	904	903	902
3	903	903	903	903	903	904	904	903	896	884	883	883	881	885	896	911	923	925	923	914	909	909	909	906	888	902
4 D	888	868	850	817	819	861	874	883	890	894	896	899	899	909	925	921	918	933	937	930	927	912	907	899	892	**894**
5	892	891	895	871	871	883	896	902	901	903	904	893	891	899	903	908	909	909	912	919	915	913	904	895	889	899
6 D	889	888	874	858	853	884	899	905	908	910	905	905	905	911	917	926	954	953	935	922	921	918	882	876	867	904
7	867	871	880	844	845	865	883	892	900	901	902	901	903	906	909	913	917	917	923	919	913	912	910	907	907	897
8	907	906	905	904	901	900	904	900	901	903	904	905	904	901	905	909	913	926	936	940	933	923	907	905	896	910
9	896	892	891	886	875	880	885	892	895	895	896	896	892	893	906	915	913	919	932	937	926	917	907	902	882	901
10	882	876	894	901	901	901	906	910	910	905	901	898	897	903	910	918	923	924	932	923	919	915	914	911	910	908
11	910	906	904	899	901	901	905	906	906	906	906	905	906	911	915	917	914	914	914	911	913	914	911	910	910	909
12	910	891	892	901	903	906	908	910	908	883	899	897	894	898	910	920	914	914	914	918	914	913	911	910	910	906
13	910	910	910	910	910	910	907	907	906	903	896	891	892	898	906	911	915	918	919	914	911	911	911	911	910	908
14	910	911	911	907	902	902	903	903	902	899	896	895	894	897	903	911	923	931	937	929	929	922	902	899	885	909
15 D	885	886	890	868	878	897	904	907	906	906	908	907	907	915	932	954	963	972	976	971	947	932	925	912	898	**919**
16 D	898	841	810	843	863	876	892	896	907	907	907	904	903	913	924	927	935	933	925	920	920	923	909	864	829	896
17 D	829	830	838	860	842	839	868	888	895	903	915	917	921	917	912	915	916	921	925	924	920	916	915	909	908	895
18 Q	908	908	911	912	913	914	915	919	918	915	914	912	911	911	912	915	915	915	915	916	916	917	915	908	898	913
19 Q	898	904	907	909	909	911	912	913	912	910	903	899	899	900	905	909	912	916	916	922	920	916	916	916	912	910
20	912	904	897	899	900	903	907	908	909	908	905	903	899	899	903	908	908	908	922	946	950	938	922	910	890	911
21	890	850	877	887	891	899	906	912	912	913	910	908	908	910	908	911	913	916	914	916	919	921	922	913	902	905
22	902	895	891	885	901	901	901	905	911	912	905	904	901	904	909	910	913	913	918	926	922	924	904	898	909	907
23	909	913	908	908	908	908	908	907	908	905	908	904	902	905	910	926	926	921	917	917	917	917	917	910	890	911
24	890	889	891	899	892	881	885	894	901	905	905	901	901	909	917	931	930	922	915	914	914	913	911	911	911	905
25	911	905	908	909	909	909	909	912	913	910	904	904	903	904	910	913	914	914	913	914	917	921	911	904	910	910
26	910	911	910	897	896	903	905	908	908	909	909	908	905	908	911	914	918	917	917	917	917	920	918	917	913	911
27	913	897	868	867	870	883	893	898	902	901	904	904	900	904	908	911	914	913	914	918	918	914	913	914	913	902
28 Q	913	912	910	910	910	910	910	913	913	911	908	903	900	901	908	910	909	909	909	910	909	909	910	911	911	909
29 Q	911	910	910	909	908	905	905	908	909	908	904	898	895	893	896	904	909	910	912	910	909	906	905	907	908	906
30	908	905	904	904	904	904	904	905	904	902	901	897	898	907	923	937	932	927	922	921	919	917	916	874	862	909
Mean	898	892	891	**889**	889	895	900	904	905	904	903	901	900	903	909	916	919	921	**922**	922	919	917	910	904	897	906

DAILY EXTREMES OF EACH COMPONENT OF TERRESTRIAL MAGNETIC FORCE:

304. Eskdalemuir. MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **September, 1931.**

Day.	Terrestrial Magnetic Force. North Component. Maximum 15000 γ +		Minimum 15000 γ +		Range.	West Component. Maximum 4000 γ +		Minimum 4000 γ +		Range.	Vertical Component. Maximum 44000 γ +		Minimum 44000 γ +		Range.	Character Figure Σ R² / 100γ² §	Magnetic Character of Day (0–2).	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ			°A.
1	22 45	1084	1016	11 35	68	0 17	220	139	8 7	81	18 22	911	873	1 38	38	126	1	85·5
2 Q	18 41	1072	1020	11 47	52	13 29	197	136	8 30	61	7 49	909	890	12 56	19	68	0	85·5
3	23 26	1104	1014	16 10	90	13 19	223	135	7 6	88	16 30	928	878	9 23	50	183	1	85·5
4 D	17 37	**1140**	965	10 55	**175**	13 13	221	102	2 5	119	17 26	942	795	3 6	147	664	2	85·5
5	19 50	1097	1005	9 21	92	11 55	204	129	19 40	75	19 6	921	864	3 11	57	173	1	85·5
6 D	21 48	1126	**955**	9 18	171	13 51	210	109	21 0	101	16 16	904	849	3 40	115	527	2	85·4
7	18 33	1111	994	2 26	117	2 52	211	109	18 23	102	18 20	927	831	3 15	96	333	1	85·5
8	21 29	1086	990	11 0	96	13 20	204	**63**	21 20	**141**	18 52	943	895	24 0	48	314	1	85·5
9	21 22	1087	1016	8 33	71	13 52	198	97	18 28	101	11 27	940	874	4 10	66	196	1	85·5
10	18 0	1072	1004	11 25	68	13 20	201	122	17 40	79	17 50	933	871	0 40	62	147	1	85·4
11	17 50	1076	991	10 38	85	13 14	197	137	3 30	60	15 6	918	897	3 18	21	113	1	85·4
12	1 0	1077	1010	10 20	67	12 34	213	129	19 12	84	15 6	921	886	1 0	35	128	1	85·4
13	20 39	1067	1012	11 41	55	13 3	197	144	9 0	53	17 27	920	889	11 22	31	68	0	85·4
14	21 20	1124	1005	11 19	119	12 59	212	107	21 12	105	17 54	941	882	23 52	59	287	1	85·4
15 D	23 1	1073	956	9 54	117	14 44	231	97	19 20	134	18 12	**986**	864	3 10	122	465	2	85·4
16 D	22 30	1112	987	9 10	125	1 12	199	95	23 12	104	16 10	938	**790**	1 29	**148**	483	2	85·4
17 D	19 30	1068	976	11 43	92	4 51	**232**	89	0 20	143	17 32	928	816	1 33	112	415	1	85·4
18 Q	23 32	1073	1002	10 40	71	23 30	193	135	7 52	58	7 52	919	796	23 49	123	235	0	85·4
19 Q	21 50	1067	1007	11 31	60	13 52	196	139	22 21	57	19 20	924	797	0 1 11 38	127	230	0	85·4
20	17 20	1079	987	24 0	92	14 34	198	103	19 0	95	19 50	951	891	24 0	60	211	1	85·4
21	23 32	1088	974	0 16	114	0 5	211	84	1 55	127	21 38	924	843	1 26	81	357	1	85·4
22	17 7	1079	1016	12 32	63	12 16	205	104	21 23	101	21 18	930	881	2 49	49	166	1	85·4
23	23 40	1107	972	15 7	135	14 48	224	135	23 20	89	15 8	931	887	24 0	44	281	1	85·4
24	20 35	1087	996	12 39	91	12 12	206	110	1 24	96	15 22	936	878	5 11	58	209	1	85·4
25	22 18	1081	1023	13 47	58	13 25	196	124	22 49	72	21 20	922	901	11 50	21	90	0	85·4
26	19 18	1082	1024	13 33	58	13 13	181	132	19 2	49	21 3	921	895	3 41	26	64	1	85·4
27	1 18 19 10	1086	1026	12 58	60	14 17	186	112	2 58	74	19 38	921	865	3 30	56	122	1	85·4
28 Q	19 32	1077	1028	12 12	**49**	14 35	185	143	8 20	**42**	7 50	913	900	12 54	**13**	43	0	85·4
29 Q	19 47	1088	1027	11 58	61	13 19	185	143	8 35	**42**	17 49	913	892	12 59	21	59	0	85·4
30	23 41	1082	990	14 59	92	14 16	225	120	24 0	105	15 1	939	846	23 17	93	281	1	85·4
Mean	—	1088	1000	—	89	—	205	117	—	88	—	930	864	—	67	235	0·90	85·4
No. of Days used.	—	30	30	—	30	—	30	30	—	30	—	30	30	—	30	30	30	30

§ For explanation *see* p. 169. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

305. Eskdalemuir. (X.) 15,000 γ (·15 C.G.S. unit) + **October, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1072	1042	1012	1064	1064	1063	1068	1022	1022	1045	1032	1021	1012	1022	1024	1047	1047	1063	1061	1057	1042	1047	1059	1053	1064	1044
2 D	1064	1038	1028	1040	1042	1048	1053	1054	1055	1052	1013	990	1009	1029	1035	1023	1069	1047	1042	1032	1025	1052	1030	1027	1031	1037
3	1031	1022	1034	1011	1042	1033	1028	1036	1024	1032	1027	1024	1024	1038	1037	1043	1047	1057	1060	1057	1054	1053	1061	1058	1057	1039
4	1057	1052	1053	1051	1042	1046	1055	1063	1052	1040	1028	1025	1023	1007	1021	1029	1042	1052	1029	1042	1022	1036	1057	1054	1024	1040
5 D	1024	1062	1055	1048	1059	1031	1017	1037	987	967	1021	1007	967	987	1012	1032	1043	1048	1047	1037	1057	1039	1037	1043	1064	1029
6	1064	1057	1048	1025	1038	1050	1052	1052	1052	1026	1012	1009	1017	1029	1032	1035	1038	1042	1044	1047	1050	1050	1057	1072	1058	1041
7	1058	1057	1052	1047	1049	1057	1057	1056	1050	1045	1033	1025	1017	1021	1028	1040	1041	1047	1054	1054	1056	1057	1054	1052	1051	1046
8	1051	1049	1050	1051	1055	1064	1066	1057	1044	1042	1032	1028	1025	1028	1036	1040	1038	1048	1052	1053	1057	1052	1056	1051	1052	1047
9 Q	1052	1051	1052	1038	1054	1062	1062	1059	1054	1046	1042	1036	1031	1026	1028	1029	1043	1047	1053	1054	1054	1053	1055	1054	1057	1047
10 Q	1057	1054	1055	1053	1052	1053	1055	1052	1048	1040	1032	1029	1018	1031	1045	1055	1058	1048	1042	1053	1062	1055	1069	1059	1057	**1049**
11 Q	1057	1055	1048	1051	1052	1053	1054	1053	1042	1031	1016	1018	1029	1033	1042	1045	1052	1057	1062	1063	1063	1062	1057	1074	1063	1049
12 D	1063	1056	1052	1054	1057	1058	1058	1057	1052	1043	1020	1017	1028	1042	1038	1032	1034	1020	1028	1027	1032	1012	1012	1066	987	1038
13	987	1039	992	1028	1002	1011	1023	1038	1008	1017	1018	1013	1011	1017	1028	1056	1042	1037	1043	1045	1047	1047	1048	1055	1057	1029
14	1057	1035	1042	1041	1034	1042	1043	1043	1042	1036	1022	1008	1008	1016	1027	1037	1028	1052	1047	1046	1052	1047	1047	1046	1050	1037
15	1050	1047	1052	1056	1044	1062	1062	1056	1031	1017	1011	1011	1016	1005	1027	1031	1036	1032	1055	1050	1050	1052	1051	1066	1052	1040
16 Q	1052	1041	1050	1047	1048	1056	1055	1055	1046	1040	1031	1020	1016	1012	1026	1028	1033	1035	1045	1052	1055	1056	1056	1053	1052	1042
17	1052	1066	1057	1053	1070	1061	1056	1053	1046	1037	1026	1017	1011	1021	1034	1042	1051	1056	1059	1062	1047	1056	1040	1052	1056	1047
18	1056	1052	1061	1048	1052	1056	1062	1056	1052	1042	1025	1021	991	1031	1031	1036	1042	1020	1041	1043	1046	1041	1045	1042	1054	1041
19	1054	1051	1046	1036	1051	1057	1046	1042	1044	1020	1027	1016	1022	1040	1038	1043	1031	1031	1046	1046	1084	1042	1037	1051	1046	1042
20	1046	1045	1042	1046	1046	1045	1051	1044	1041	1039	1025	1020	1026	1031	1035	1041	1050	1054	1050	1045	1065	1048	1055	1046	1056	1043
21	1056	1048	1055	1049	1048	1051	1055	1050	1044	1035	1012	1022	1028	1036	1044	1047	1041	1046	1046	1069	1060	1055	1055	1062	1055	1046
22	1055	1070	1049	1055	1040	1042	1052	1045	1045	1027	1020	1021	1011	1031	1037	1050	1036	1039	1052	1055	1045	1050	1065	1055	1054	1044
23	1054	1050	1050	1050	1050	1051	1051	1048	1043	1039	1033	1029	1030	1039	1046	1050	1045	1055	1057	1056	1061	1070	1076	1030	1030	1048
24	1030	1043	1033	1047	1045	1045	1049	1045	1043	1024	1020	1036	1045	1046	1044	1046	1045	1046	1050	1053	1050	1052	1060	1053	1052	1042
25 Q	1052	1048	1047	1049	1052	1054	1053	1049	1045	1039	1031	1029	1030	1038	1040	1040	1032	1043	1049	1055	1057	1059	1063	1056	1051	1046
26	1051	1044	1054	1053	1054	1055	1054	1051	1045	1034	1034	1036	1038	1040	1044	1049	1049	1055	1059	1048	1044	1039	1054	1055	1057	1048
27	1057	1064	1058	1052	1057	1055	1062	1064	1054	1039	1024	1018	1013	1016	1015	1034	1029	1020	1019	1034	1041	1049	1052	1050	1047	1040
28	1047	1047	1045	1041	1055	1052	1052	1047	1044	1033	999	1022	1030	1014	1019	1039	1029	1024	1034	986	1009	1026	1036	1039	1043	1032
29 D	1043	1037	1039	1043	1044	1043	1048	1041	1021	1008	983	990	963	938	1023	1041	1113	979	987	984	993	992	988	1003	1029	1014
30 D	1029	1022	1020	1024	993	984	1017	973	1006	1004	947	978	999	1008	987	991	1003	1007	1039	1075	1008	1033	1039	1026	1033	**1009**
31	1033	1030	1032	1028	1048	1023	1035	1018	996	1010	1008	1009	1001	1013	1022	1037	1038	1052	1057	1052	1042	1046	1053	1044	1044	1031
Mean	1049	1048	1044	1044	1046	1047	1050	1046	1038	1031	1019	1018	**1016**	1022	1030	1038	1043	1041	1045	1046	1046	1046	1049	**1050**	1048	1040

TERRESTRIAL MAGNETIC FORCE: WEST COMPONENT.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

306. Eskdalemuir. (—Y.) 4,000 γ (·04 C.G.S. unit) + **October, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	122	127	180	150	149	151	157	169	186	166	164	170	185	190	194	177	162	159	138	133	154	151	165	159	145	161
2 D	145	113	145	162	160	158	153	151	150	153	164	179	183	198	186	207	118	153	124	77	140	159	124	123	139	151
3	139	158	143	152	158	159	157	163	149	155	159	166	175	179	179	173	166	155	153	164	165	159	155	158	157	160
4	157	165	130	143	155	157	155	159	151	148	155	171	186	177	178	176	172	173	159	152	123	112	117	143	191	155
5 D	191	158	142	173	161	179	177	165	159	159	149	166	164	178	179	173	169	124	117	142	155	140	153	149	167	159
6	167	158	135	153	153	153	155	152	151	153	158	159	167	173	173	173	171	163	151	144	159	159	159	153	146	158
7	146	149	139	145	153	153	156	160	164	153	153	158	168	173	175	171	169	150	163	164	163	159	159	158	158	159
8	158	158	157	157	160	159	171	162	153	152	151	158	171	177	177	175	169	166	165	163	161	151	124	149	155	160
9 Q	155	158	159	165	166	153	157	152	145	143	145	157	172	178	183	177	167	167	165	160	159	158	158	159	159	161
10 Q	159	160	160	159	157	161	157	152	147	145	154	173	181	184	180	175	171	165	167	167	165	155	143	145	154	162
11 Q	154	154	165	163	159	158	157	151	145	146	155	170	186	191	189	179	173	167	166	165	165	162	159	157	157	**164**
12 D	157	145	151	153	157	157	155	154	151	145	150	173	185	200	196	192	191	172	114	132	128	111	84	165	118	154
13	118	85	126	136	167	185	211	163	178	151	155	169	171	172	185	139	157	158	153	151	151	154	157	155	165	157
14	165	151	163	154	159	159	157	151	143	140	150	162	173	179	178	177	158	144	159	157	138	138	146	154	157	156
15	157	165	164	150	162	170	162	158	157	157	157	170	185	191	187	180	178	152	137	159	157	150	144	158	151	163
16 Q	151	157	167	152	158	163	160	163	151	145	146	159	171	173	173	177	177	171	165	160	158	157	157	153	151	161
17	151	163	160	153	163	151	159	146	151	151	151	158	169	170	177	177	171	169	171	171	163	89	132	143	145	157
18	145	151	156	138	143	151	151	146	142	143	147	173	173	167	190	189	201	178	166	163	153	140	135	145	152	158
19	152	147	146	165	173	156	147	151	151	149	158	168	166	177	177	183	171	152	164	171	110	131	151	150	167	157
20	167	145	153	154	152	155	152	147	144	139	150	155	166	173	177	169	165	164	163	146	125	151	159	175	164	156
21	164	157	144	152	147	151	149	144	147	148	151	160	181	175	183	173	160	157	164	132	141	153	157	155	151	156
22	151	192	171	135	143	152	142	145	145	147	151	170	169	173	173	169	158	152	157	149	154	155	167	159	152	157
23	152	151	153	154	152	155	154	150	151	151	163	172	177	177	173	166	162	143	146	157	145	133	136	96	143	153
24	143	143	154	157	166	186	161	157	152	151	153	170	177	179	171	167	165	164	159	158	157	158	152	151	152	161
25 Q	151	152	156	157	156	155	152	150	147	143	149	164	176	177	171	159	154	157	163	158	157	150	156	147	146	156
26	146	152	157	156	157	157	154	150	149	147	154	170	176	183	180	176	172	171	170	168	103	150	151	150	151	158
27	151	152	149	146	150	156	156	152	148	144	150	164	180	191	197	170	197	186	170	123	137	150	156	150	150	159
28	150	152	149	177	156	150	152	149	141	138	141	157	178	183	172	182	184	141	119	107	112	101	138	152	154	149
29 D	154	156	154	156	157	164	169	170	179	171	154	158	186	169	224	264	199	162	156	97	82	83	50	66	103	152
30 D	103	113	131	124	139	199	166	164	166	147	129	149	157	172	170	156	148	125	123	78	107	120	117	133	145	**140**
31	145	157	156	164	161	162	187	170	170	162	166	163	174	164	172	164	156	148	127	144	143	156	141	150	148	158
Mean	151	150	152	153	156	160	160	155	154	150	153	165	175	179	**181**	177	169	158	152	145	143	**142**	142	147	151	157

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

307. Eskdalemuir. (Z.) 44,000 γ (·44 C.G.S. unit) + **October, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	861	870	861	869	888	899	899	904	896	896	902	903	906	908	914	936	936	935	934	926	922	920	904	880	871	903
2 D	871	864	861	869	885	900	906	908	908	905	909	909	909	915	934	954	990	968	977	968	946	912	889	857	826	913
3	826	835	862	866	884	887	899	908	908	908	908	908	909	913	913	914	917	924	922	918	917	916	916	912	911	901
4	911	899	874	895	900	903	906	908	912	911	908	904	904	913	917	916	917	925	941	942	912	920	901	900	874	909
5 D	874	856	887	886	849	857	867	889	903	909	908	908	917	925	922	924	929	947	952	942	914	916	913	912	887	904
6	887	869	883	888	891	902	905	908	909	912	909	912	911	912	916	917	917	920	925	922	918	916	915	901	895	907
7	895	891	898	900	900	900	900	904	905	908	908	909	908	908	909	908	914	917	916	913	913	913	913	913	912	907
8	912	912	912	911	908	903	899	898	903	904	907	908	904	904	908	912	914	912	912	913	913	917	916	909	909	909
9 Q	909	911	909	908	897	899	899	902	907	908	908	908	907	911	912	917	918	916	915	913	912	912	912	912	912	909
10 Q	912	912	910	910	909	908	908	912	913	912	913	907	908	908	909	911	913	916	917	915	912	913	912	910	906	911
11 Q	906	903	907	907	907	908	908	911	912	911	906	903	903	906	911	915	916	912	911	909	908	907	910	903	901	908
12 D	901	898	901	904	906	907	907	907	907	904	903	899	899	902	908	916	929	960	994	964	955	941	900	792	795	910
13	795	799	808	860	850	833	847	875	891	898	903	909	919	933	930	951	944	931	924	923	919	918	914	914	904	**894**
14	904	900	901	906	906	906	910	911	913	912	906	906	918	919	920	927	932	933	927	924	924	920	917	914	914	915
15	914	911	910	909	910	906	906	906	910	911	912	910	910	920	923	923	928	933	933	923	920	919	917	903	896	915
16 Q	896	899	897	906	909	907	907	907	911	914	912	910	910	915	923	923	926	924	922	919	918	915	914	914	914	913
17	914	902	895	901	901	899	902	906	907	907	908	910	910	911	912	914	915	912	911	911	918	931	928	919	912	910
18	912	910	897	901	905	907	907	908	908	908	905	900	905	911	910	911	914	930	927	923	923	927	926	923	911	912
19	911	909	909	897	888	896	899	904	905	906	905	904	908	909	910	917	920	930	923	919	924	914	898	895	877	908
20	877	891	901	905	905	906	908	910	911	913	909	905	905	906	909	913	913	912	911	915	917	912	909	896	881	907
21	881	896	898	901	905	905	905	909	909	910	908	908	902	905	906	909	914	916	913	914	909	906	905	905	902	906
22	902	865	864	877	883	885	891	898	900	900	900	900	904	905	908	909	917	923	918	912	912	912	904	902	900	900
23	900	904	904	904	904	904	904	904	904	901	895	895	897	900	904	905	912	912	909	905	907	900	878	878	876	901
24	876	884	890	887	882	878	876	887	891	891	890	889	891	896	900	904	905	904	904	904	904	904	904	904	904	894
25 Q	904	904	904	904	904	903	902	901	904	900	899	896	897	900	906	913	912	909	908	905	904	905	900	899	901	903
26	901	901	898	900	900	900	900	901	904	904	900	898	899	904	907	907	905	901	902	907	929	919	909	907	904	904
27	904	893	883	887	891	895	897	899	899	905	899	896	899	904	913	934	932	944	974	961	930	917	909	908	908	911
28	908	908	905	882	878	888	895	901	908	904	904	902	901	907	913	910	918	934	943	948	945	936	914	907	902	911
29 D	902	904	904	904	904	904	899	898	897	895	902	908	922	965	1007	1063	1107	1064	1062	1024	969	849	868	869	872	**941**
30 D	872	884	881	853	832	815	852	877	896	907	921	930	925	927	952	984	994	1008	969	930	908	908	903	904	904	910
31	904	901	900	900	898	892	883	892	903	904	907	913	921	925	926	931	925	921	920	914	913	909	901	901	901	908
Mean	892	**890**	891	894	893	894	897	902	905	906	906	905	907	913	918	925	930	932	**933**	927	921	914	907	899	893	908

DAILY EXTREMES OF EACH COMPONENT OF TERRESTRIAL MAGNETIC FORCE: MAGNETIC CHARACTER FIGURES: TEMPERATURE OF MAGNET HOUSE.

308. Eskdalemuir. **October, 1931.**

Day.	Terrestrial Magnetic Elements. North Component. Maximum 15000 γ +		Minimum 15000 γ +		Range.	West Component. Maximum 4000 γ +		Minimum 4000 γ +		Range.	Vertical Component. Maximum 46000 γ +		Minimum 46000 γ +		Range.	Character Figure ΣR² / 100γ² §	Magnetic Character of Day (0–2).	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ			°A
1	18 20	1121	982	1 50	139	14 3	211	94	18 12	117	15 18	942	857	2 26	85	402	1	85·4
2 D	15 59	1112	954	15 21	158	14 34	232	48	18 51	184	15 49	1002	817	23 21	185	930	2	85·4
3	18 10	1077	971	2 34	106	12 48	184	106	0 4	78	17 10	926	825	0 32	101	275	1	85·4
4	19 33	1089	971	20 18	118	1 10 / 24 0	205	84	20 26	121	19 11	954	865	0 35	89	365	1	85·4
5 D	23 46	1106	946	8 50	160	0 10	218	49	17 17	169	17 17	960	844	3 39	116	676	1	85·4
6	22 28	1090	997	10 32	93	0 6	191	108	18 55	83	17 50	927	866	1 0	61	193	1	85·4
7	0 12	1065	1007	12 40	58	13 26	184	137	2 19	47	17 23	921	888	0 44	33	67	0	85·4
8	21 58	1071	1017	12 0	54	13 51	179	113	21 26	66	21 37	922	896	6 27	26	79	0	85·4
9 Q	4 39	1067	1014	15 0	53	14 20	190	138	8 49	52	15 40	920	896	4 40	24	61	0	85·4
10 Q	21 59	1081	1006	11 36	75	12 42	188	125	22 31	63	17 28	921	906	10 59 / 24 0	**15**	98	1	85·4
11 Q	22 45	1088	1010	10 23	78	13 7	193	130	23 38	63	16 4	916	901	23 5	**15**	103	1	85·4
12 D	22 42	1203	950	23 50	253	13 32	210	65	22 33	145	18 0	1015	**742**	23 6	273	1596	2	85·4
13	15 19	1077	949	1 49	128	6 12	224	50	1 23	174	14 59	957	782	1 56	175	773	1	85·4
14	17 0	1072	1001	11 41	71	12 45	184	123	16 39	61	16 47	936	897	0 32	39	103	1	85·4
15	23 22	1072	995	13 6	77	12 36	199	105	17 36	94	17 18	941	893	23 32	48	171	1	85·4
16 Q	0 20	1058	1005	13 0	53	1 30	184	138	9 26	**46**	15 50	927	895	1 42	32	59	0	85·4
17	4 25	1080	993	12 12	87	14 9	181	65	20 44	116	20 52	933	893	1 41	40	226	1	85·4
18	5 50	1077	961	12 12	116	16 17	210	124	21 44	86	17 22	931	893	2 10	38	223	1	85·4
19	19 59	1112	985	11 22	127	13 42	191	98	19 49	93	19 43	931	875	24 0	56	279	1	85·4
20	19 46	1087	1010	10 36	77	13 17	185	96	19 40	89	19 34	923	875	0 1	48	162	1	85·3
21	19 15	1080	1005	10 9	75	11 45	192	112	19 9	80	16 58	918	882	0 1	36	133	1	85·3
22	18 15	1096	995	12 0	101	0 50	222	124	3 30	98	16 32	925	853	1 21	72	250	1	85·2
23	21 33	1114	1000	23 38	114	13 48	191	71	23 12	120	15 45	913	873	22 40	40	290	1	85·2
24	21 37	1078	1004	9 49	74	5 18	198	131	0 37	67	20 30	906	871	0 16	35	112	0	85·1
25 Q	21 23	1081	1027	11 5	54	12 6	178	129	21 20	49	15 2	913	895	11 30	18	56	0	85·0
26	17 52	1064	1014	19 29	**50**	13 36	184	82	19 58	102	19 58	933	896	11 16	37	143	1	85·0
27	1 22	1073	989	14 12	84	15 41	213	64	18 33	149	18 28	1020	883	2 10	137	480	1	84·9
28	18 21	1072	977	19 13	95	2 37	197	57	18 8	140	18 5	953	874	3 57	79	349	1	84·9
29 D	15 50	**1370**	**899**	21 11	**471**	15 47	**379**	**3**	20 49	**376**	Between 15 42 & 16 8	**>1147**	783	21 4	**>364**	4957	2	84·9
30 D	17 59	1227	924	10 0	303	4 58	213	15	17 53	198	16 57	1028	810	4 40	218	1785	2	84·8
31	17 49	1073	989	7 51 / 10 25	84	5 52	192	110	17 41	82	14 38	935	880	6 5	55	168	1	84·8
Mean	—	1101	985	—	116	—	203	93	—	110	—	948	865	—	84	502	0·94	85·3
No. of Days used.	—	31	31	—	31	—	31	31	—	31	—	31	31	—	31	31	31	31

§ For explanation *see* page 169. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

309. Eskdalemuir. (X.) 15,000 γ (·15 C.G.S. unit) + **November, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1044	1039	1041	1039	1047	1050	1051	1052	1045	1020	1017	1013	1021	1023	1033	1043	1044	1028	1043	1045	1048	1050	1053	1078	1043	1040
2	1043	1043	1048	1049	1053	1056	1061	1054	1049	1045	1024	1015	1018	1028	1032	1030	1017	1037	1037	1043	1046	1048	1047	1060	1049	1041
3	1049	1043	1039	1047	1056	1059	1067	1053	1055	1031	1010	1017	1027	1028	1025	1024	1031	1037	1051	1039	1047	1042	1043	1035	1045	1040
4	1045	1067	1047	1058	1055	1048	1046	1027	1042	1021	992	984	1000	1036	1022	1028	1036	1041	1042	1045	1051	1047	1047	1046	1045	1036
5 D	1045	1046	1046	1052	1041	1061	1066	1067	1036	1006	1022	1021	1026	1036	1041	1036	1031	1029	1036	1036	1046	1062	1032	1043	1046	1040
6 D	1046	1036	1020	1035	1036	1052	1056	1053	1046	1034	1021	986	1004	1027	1027	1051	1051	1051	1037	1044	1053	1056	1063	1038	1036	1038
7	1036	1051	1026	1033	1041	1045	1042	1039	1034	1033	1020	1027	1022	1014	1039	1041	1049	1055	1054	1046	1047	1050	1075	1052	1049	1041
8 D	1049	1040	1044	1050	1053	1060	1029	1035	1033	1012	985	990	1011	999	1016	1036	1045	1040	1070	1061	1045	1066	1029	1045	1045	1035
9	1045	1039	1023	1046	1018	1040	1050	1050	1044	1037	1034	1024	1004	1010	1014	1020	1042	1047	1044	1049	1060	1064	1055	1048	1044	1038
10	1044	1016	1025	1040	1036	1037	1029	1050	1044	1034	1022	1024	1028	1030	1033	1034	1042	1044	1054	1043	1059	1044	1049	1046	1044	1038
11	1044	1045	1044	1047	1049	1049	1049	1050	1052	1045	1024	1024	1023	1024	1033	1032	1047	1045	1038	1041	1043	1053	1059	1049	1048	1042
12 Q	1048	1045	1047	1048	1051	1054	1054	1049	1051	1042	1034	1030	1029	1033	1040	1045	1045	1049	1053	1055	1058	1054	1054	1053	1053	1047
13	1053	1053	1053	1059	1063	1062	1064	1063	1059	1055	1053	1033	1039	1044	1045	1048	1049	1057	1058	1058	1032	1043	1044	1072	1037	**1052**
14	1037	1044	1044	1042	1047	1049	1059	1062	1058	1047	1035	1032	1014	1002	1033	1037	1041	1037	1037	1048	1079	1041	1050	1053	1048	1043
15	1048	1047	1048	1051	1053	1047	1049	1052	1047	1042	1038	1033	1027	1020	1032	1045	1048	1067	1022	1032	1042	1042	1077	1029	1043	1043
16 D	1043	1062	1042	1042	1037	1051	1056	1055	1049	1044	1037	1029	1036	1040	1031	1027	1022	1026	1044	1026	1041	1046	1026	1032	1036	1039
17	1036	1042	1031	1037	1037	1042	1046	1044	1031	1038	1039	1041	1044	1051	1031	1041	1041	1046	1080	1031	1046	1051	1052	1046	1057	1043
18	1057	1042	1039	1033	1026	1036	1039	1037	1032	1025	1031	1033	1026	1025	1016	1049	1038	1045	1050	1035	1029	1040	1040	1046	1040	1036
19	1040	1039	1050	1042	1050	1055	1045	1044	1040	1034	1021	1031	1031	1046	1041	1045	1040	1045	1045	1071	1095	1049	1030	1035	1031	1044
20	1031	1035	1031	1034	1041	1040	1042	1030	1040	1036	1033	1034	1035	1036	1035	1043	1045	1049	1068	1043	1044	1045	1049	1050	1044	1041
21 Q	1044	1043	1042	1044	1042	1044	1047	1043	1049	1049	1044	1042	1041	1037	1029	1044	1049	1049	1055	1050	1049	1049	1049	1047	1046	1045
22 Q	1046	1044	1045	1045	1047	1049	1051	1050	1051	1045	1039	1038	1035	1037	1042	1044	1048	1049	1050	1054	1055	1055	1052	1049	1050	1047
23	1050	1047	1047	1048	1048	1049	1052	1051	1049	1044	1039	1040	1042	1045	1048	1049	1049	1050	1048	1044	1041	1044	1063	1045	1048	1047
24	1048	1049	1044	1048	1048	1052	1055	1054	1055	1048	1042	1038	1036	1034	1037	1040	1040	1043	1047	1051	1049	1072	1049	1050	1051	1047
25	1051	1052	1049	1056	1065	1068	1059	1059	1057	1048	1042	1045	1041	1042	1042	1037	1043	1050	1052	1054	1062	1057	1056	1055	1063	1052
26 D	1063	1054	1056	1063	1060	1058	1058	1058	1057	1054	1047	1047	1030	988	990	996	1011	1017	1032	1018	1017	1022	1027	1023	1051	**1035**
27	1051	1037	1033	1020	998	1052	1057	1042	1037	1032	1038	1039	1032	1032	1034	1035	1034	1036	1017	1028	1063	1040	1036	1052	1036	1036
28 Q	1036	1038	1041	1041	1041	1046	1045	1045	1046	1040	1038	1026	1017	1022	1028	1026	1021	1027	1031	1041	1041	1046	1053	1047	1043	1037
29	1043	1042	1043	1045	1052	1051	1057	1055	1050	1046	1041	1039	1041	1037	1038	1034	1034	1036	1038	1043	1045	1041	1040	1043	1070	1044
30 Q	1070	1041	1041	1045	1045	1054	1051	1046	1051	1049	1045	1040	1040	1038	1040	1040	1045	1047	1051	1051	1054	1050	1047	1045	1046	1046
Mean	1046	1044	1041	1045	1045	1051	**1051**	1049	1046	1038	1030	**1027**	1027	1029	1032	1037	1039	1043	1046	1044	1050	1049	1048	1047	1046	1042

TERRESTRIAL MAGNETIC FORCE: WEST COMPONENT.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

310. Eskdalemuir. (—Y.) 4,000 γ (·04 C.G.S. unit) + **November, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	148	152	159	162	150	150	150	146	143	137	151	152	165	170	170	164	164	145	148	151	150	150	137	130	146	152
2	146	158	162	150	152	156	157	158	152	144	150	155	165	174	170	164	156	146	145	150	150	150	148	137	139	154
3	139	151	164	164	150	150	152	152	154	150	161	170	182	184	178	181	164	152	123	143	139	103	86	123	153	151
4	153	181	138	136	148	156	190	157	155	159	157	173	184	171	176	164	167	155	155	137	149	151	151	149	149	**159**
5 D	149	146	152	143	157	151	156	162	153	151	165	173	163	171	170	163	160	130	129	116	123	106	122	149	147	148
6 D	147	150	175	155	156	185	176	163	157	151	164	149	178	164	168	161	162	81	130	156	145	142	122	122	136	152
7	136	151	155	151	150	149	156	156	162	155	149	160	164	150	161	157	156	148	152	154	142	136	108	132	132	149
8 D	132	146	156	155	163	161	164	183	155	148	149	157	166	143	167	136	155	149	116	109	116	128	118	151	149	147
9	149	163	142	151	149	161	157	149	141	140	145	157	159	163	163	157	147	155	151	147	122	128	124	109	124	147
10	124	145	164	151	155	164	172	151	147	143	143	150	161	165	168	157	142	142	124	136	147	141	143	151	160	150
11	160	155	150	153	155	155	156	155	149	149	143	153	166	156	165	165	136	145	153	148	143	141	157	146	149	152
12 Q	149	149	151	155	155	155	152	151	148	142	143	150	157	163	164	165	162	161	157	155	155	151	150	148	146	154
13	146	149	149	155	157	161	157	155	150	145	156	156	171	173	171	169	163	163	162	165	155	136	143	149	123	156
14	123	135	135	153	148	147	155	153	149	148	148	162	170	174	183	154	188	181	175	155	115	142	143	146	142	154
15	142	148	149	148	148	154	152	154	149	148	156	162	168	164	165	167	161	114	132	137	146	143	168	161	128	151
16 D	128	168	135	128	142	144	154	154	152	149	155	161	167	181	165	162	156	122	128	108	95	115	95	121	135	**141**
17	135	136	155	148	148	148	146	156	156	162	158	168	168	170	164	155	161	142	114	130	143	150	152	121	129	149
18	129	143	142	141	144	150	150	152	155	150	152	171	162	170	178	141	150	145	135	154	115	135	147	162	152	149
19	152	135	149	136	138	149	148	150	151	153	154	162	155	162	168	143	160	155	144	122	88	117	123	129	136	143
20	136	146	146	148	143	142	143	144	148	143	146	154	164	168	156	161	156	135	128	154	151	148	141	148	152	148
21 Q	152	147	149	148	147	150	149	148	148	147	148	155	162	162	156	158	161	157	139	156	154	148	148	148	148	151
22 Q	148	149	152	150	151	149	150	150	155	154	155	162	162	166	167	158	156	157	154	154	150	149	148	143	146	154
23	146	150	151	153	153	153	153	149	147	146	149	154	160	167	163	161	160	160	153	153	145	137	126	143	147	151
24	147	146	140	141	146	151	153	154	155	147	153	156	164	167	168	168	171	167	163	155	148	127	134	147	147	153
25	147	151	153	160	158	153	151	153	149	146	150	158	161	167	165	162	160	163	162	159	159	154	142	139	147	155
26 D	147	141	161	143	132	153	155	151	151	149	147	160	166	169	182	181	193	167	148	141	134	108	80	134	127	149
27	127	101	122	153	174	161	147	147	145	142	144	149	155	161	161	155	153	155	149	147	136	122	133	135	134	145
28 Q	134	140	148	148	153	154	155	153	149	142	147	149	153	161	167	159	161	151	154	148	142	141	140	142	147	150
29	147	148	149	153	155	155	147	148	147	147	148	153	161	161	162	156	159	141	148	147	147	140	134	128	121	149
30 Q	121	129	141	141	148	149	153	154	154	153	155	159	156	159	158	153	153	153	153	149	151	148	147	147	147	150
Mean	141	147	150	149	151	154	155	154	151	148	151	158	165	166	**167**	160	160	148	144	145	139	136	**134**	140	141	150

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

311. Eskdalemuir. (Z.) 44,000 γ (·44 C.G.S. unit) + **November, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	900	900	898	896	900	903	904	907	908	911	907	907	907	907	907	908	911	919	919	913	909	907	907	895	895	**906**
2	895	897	895	898	900	899	899	901	903	903	901	900	899	903	907	916	921	924	920	916	912	907	905	899	895	905
3	895	895	895	890	891	894	891	894	893	898	895	892	890	895	900	904	907	909	914	910	910	912	907	894	878	899
4	878	849	858	868	877	878	870	878	882	886	890	891	896	908	916	921	911	909	907	907	904	903	901	900	898	892
5 D	898	895	895	894	890	879	882	883	887	895	895	894	898	899	899	906	911	947	934	933	912	902	903	895	887	901
6 D	887	886	866	865	878	868	861	873	882	887	891	899	903	907	912	912	905	920	913	899	898	895	892	887	887	891
7	887	877	881	874	874	882	884	886	887	890	894	892	898	912	906	901	899	898	895	896	899	899	892	884	883	891
8 D	883	890	884	878	877	866	869	865	878	887	895	899	903	919	917	925	912	907	904	898	896	853	861	856	844	888
9	844	839	848	842	861	870	876	879	882	885	884	884	890	896	903	907	907	900	895	894	894	886	883	878	865	881
10	865	848	856	868	870	869	869	872	878	881	885	886	886	888	891	900	904	902	901	896	885	882	885	882	878	881
11	878	881	883	883	883	883	882	880	882	879	883	884	887	893	894	895	899	896	892	891	891	887	880	881	882	886
12 Q	882	879	882	882	882	880	879	879	879	879	879	879	879	879	882	884	886	885	884	883	883	882	882	880	880	881
13	880	879	879	877	874	875	875	874	875	878	874	875	871	870	873	879	882	880	879	882	892	895	891	882	879	879
14	879	879	879	879	879	879	878	875	875	875	875	874	877	884	888	899	892	891	896	894	892	887	884	881	881	883
15	881	880	879	879	877	876	876	877	879	875	873	875	879	884	885	883	885	893	896	893	885	884	872	842	860	879
16 D	860	841	853	864	866	863	867	869	871	871	868	870	870	872	878	893	902	916	905	905	891	870	837	863	867	874
17	867	863	869	870	875	875	875	874	872	872	875	874	875	875	880	889	884	889	888	888	887	878	845	848	846	874
18	846	845	862	868	869	866	860	867	867	872	875	872	873	879	887	904	898	889	885	884	890	887	880	859	864	875
19	864	872	868	860	864	867	867	868	868	869	869	872	875	875	876	884	881	878	882	877	873	861	869	873	875	872
20	875	874	874	873	873	873	873	873	873	873	873	873	873	873	875	878	877	883	882	874	876	877	877	874	862	875
21 Q	862	869	871	871	871	870	870	870	870	869	865	866	868	869	873	873	873	873	876	873	873	873	874	873	873	871
22 Q	873	873	873	872	871	870	870	870	869	868	865	865	869	872	870	872	873	873	873	873	874	874	874	874	874	871
23	874	873	871	870	870	869	869	869	868	867	865	864	862	864	866	867	868	869	870	871	877	878	872	871	870	869
24	870	868	866	866	866	866	866	866	866	866	866	863	863	866	870	872	872	871	871	872	874	872	871	870	870	868
25	870	868	867	863	859	858	861	862	863	866	862	861	861	863	866	868	870	867	867	866	865	866	870	870	867	865
26 D	867	864	860	846	850	854	856	859	860	859	860	860	863	880	893	923	923	906	891	890	893	898	885	872	853	875
27	853	850	841	826	812	825	842	853	859	860	859	860	860	864	868	874	877	877	882	882	873	872	872	846	861	**858**
28 Q	861	868	868	868	869	868	868	868	867	869	869	869	870	873	877	879	883	886	886	882	882	878	875	873	873	873
29	873	872	871	870	869	866	867	867	867	867	866	865	866	869	871	875	876	882	882	879	877	876	877	875	863	872
30 Q	863	862	867	868	870	868	869	868	870	868	866	866	867	871	872	875	876	876	875	874	872	872	871	871	871	870
Mean	874	871	872	**871**	872	872	872	874	876	877	877	878	879	884	887	892	892	**894**	892	890	888	884	880	875	873	880

DAILY EXTREMES OF EACH COMPONENT OF TERRESTRIAL MAGNETIC FORCE:

312. Eskdalemuir. MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **November, 1931.**

Day.	Terrestrial Magnetic Force. North Component. Maximum 15000γ +		North Component. Minimum 15000 γ +		North Range.	West Component. Maximum 4000 γ +		West Minimum 4000 γ +		West Range.	Vertical Component. Maximum 44000 γ +		Vertical Minimum 44000 γ +		Vertical Range.	Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2)	Temperatur in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ			°A.
1	22 52	1113	1008	10 50	105	12 42	176	116	23 19	60	17 33	925	892	23 5	33	157	1	84·8
2	23 5	1072	1001	16 5	71	12 54	180	127	17 24	53	16 27	928	891	1 51	37	92	1	84·8
3	5 47	1071	1007	10 13	64	12 49	190	64	21 16	126	18 0	916	879	24 0	37	213	1	84·8
4	0 41	1077	974	10 44	103	0 46	200	126	2 20	74	14 44	924	821	1 9	**103**	267	1	84·8
5 D	20 45	1087	989	18 30	98	4 21	177	68	18 48	109	16 8	**967**	877	4 50	90	296	1	84·8
6 D	22 0	1076	**961**	11 9	115	12 58	202	48	17 9	154	17 10	924	856	5 21	68	416	1	84·8
7	21 55	1120	985	12 35	135	12 18	176	84	21 51	92	13 8	916	873	3 50	43	285	1	84·8
8 D	21 10	1115	967	10 43	**148**	6 23	194	69	17 37	125	14 47	929	836	21 20	93	462	1	84·7
9	20 9	1095	983	12 18	112	0 41	183	82	20 0	101	16 9	911	834	1 11	77	287	1	84·7
10	17 36	1088	999	1 12	89	6 21	184	88	17 25	96	16 10	905	847	1 0	58	205	1	84·6
11	22 18	1074	1015	13 0	59	14 6	171	116	16 4	55	16 12	900	874	22 22	26	72	1	84·6
12 Q	19 49	1059	1028	12 30	**31**	14 49	172	136	9 15	36	16 9	887	878	0 1	**9**	23	0	84·6
13	23 2	1094	1018	20 9	76	13 37	183	115	24 0	68	20 25	902	870	13 0	32	114	1	84·6
14	19 40	1117	992	12 49	125	16 22	192	87	19 31	105	14 49	900	873	23 25	27	274	1	84·6
15	22 6	**1122**	987	22 46	135	22 30	**217**	74	16 38	143	16 33	900	833	22 40	67	432	1	84·6
16 D	19 49	1110	976	21 48	134	13 29	195	60	19 43	135	17 4	925	823	21 40	102	466	1	84·6
17	17 32	1096	1012	1 56	84	13 30	178	96	17 22	82	17 17	895	842	22 21	53	166	1	84·6
18	22 44	1101	999	13 40	102	22 52	196	107	20 0	89	14 50	907	837	0 22	70	232	1	84·5
19	20 20	1118	1004	21 31	114	13 50	175	60	20 11	115	15 12	885	859	20 51	26	269	1	84·5
20	17 29	1090	1015	17 5	75	23 22	183	80	17 22	103	17 21	890	860	23 47	30	171	1	84·4
21 Q	18 5	1060	1020	13 58	40	13 1	168	128	18 4	40	18 0	877	864	0 1	13	34	0	84·4
22 Q	21 38	1057	1025	11 43	32	13 50	169	142	22 59	**27**	23 2	875	864	9 50	11	19	0	84·4
23	21 32	1088	1031	20 53	57	13 9	167	100	21 16	67	21 17	879	862	11 41	17	80	0	84·4
24	20 10	1089	1033	12 21	56	16 10	173	115	21 18	58	20 38	875	863	12 0	12	66	0	84·3
25	19 49	1077	1032	14 20	45	13 7	171	130	22 44	41	22 32	871	857	5 0	14	39	0	84·3
26 D	2 42	1073	965	13 30	108	16 4	208	**47**	22 9	**161**	15 26	940	845	2 49	95	466	1	84·3
27	19 53	1107	975	3 37	132	3 33	192	94	1 12	98	17 58	884	**809**	3 49	75	327	1	84·3
28 Q	21 50	1062	1012	11 31	50	14 4	169	127	21 43	42	17 50	887	861	0 1	26	49	0	84·3
29	23 39	1092	1021	16 40	71	12 10	167	111	23 23	56	17 39	883	862	24 0	21	86	0	84·3
30 Q	0 1	1069	1035	14 18	34	13 53	161	115	0 1	46	15 53	877	859	0 38	18	36	0	84·3
Mean	—	1089	1002	—	87	—	182	97	—	85	—	903	857	—	46	203	0·70	84·5
No. of Days used.	—	30	30	—	30	—	30	30	—	30	—	30	30	—	30	30	30	30

§ For explanation see page 169. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

TERRESTRIAL MAGNETIC FORCE: NORTH COMPONENT.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

313. Eskdalemuir. (X.) 15,000 γ (·15 C.G.S. unit) + **December, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	1046	1045	1046	1047	1050	1054	1056	1048	1054	1048	1048	1045	1038	1011	1014	1021	1026	1034	1015	1035	1046	1036	1035	1040	1036	1039
2 D	1036	1045	1048	1049	1040	1043	1048	1050	1046	1030	1036	1028	988	1011	1020	1025	1031	1035	1041	1050	1090	1053	1011	1049	1055	1038
3 D	1055	1054	1028	1034	1034	1025	1041	1054	1044	1009	1013	1018	1023	1016	1019	1029	1045	1034	1045	1053	1074	1069	1036	1039	1033	1037
4 D	1033	1033	1034	1029	1035	1041	1030	1053	1021	1018	1029	1019	1010	1014	1029	1014	1023	1028	1048	1039	1033	1049	1063	1047	1020	1032
5 D	1020	1042	1038	1033	1035	1044	1029	1045	1045	1025	1018	1018	1009	998	1004	1018	1019	1038	1043	1040	1039	1070	1058	1040	1035	1032
6	1035	1037	1034	1023	1018	1038	1049	1043	1041	1038	1030	1028	999	1002	1007	1033	1042	1038	1034	1048	1046	1040	1040	1052	1043	1033
7	1043	1040	1039	1037	1033	1043	1048	1049	1048	1037	1025	1019	1019	1026	1033	1036	1032	1028	1028	1038	1043	1056	1050	1041	1042	1037
8	1042	1043	1054	1039	1045	1045	1049	1048	1048	1047	1039	1037	1039	1038	1040	1040	1041	1044	1046	1041	1040	1036	1035	1047	1046	1043
9	1046	1045	1045	1046	1047	1050	1051	1056	1055	1049	1044	1045	1046	1044	1040	1027	1034	1044	1033	1031	1021	1031	1036	1037	1037	1042
10	1037	1052	1050	1052	1048	1055	1060	1051	1011	1032	1015	1010	1026	1038	1036	1035	1039	1041	1043	1044	1044	1043	1055	1045	1036	1040
11 D	1036	1031	1035	1034	1039	1041	1046	1041	1043	1043	1034	1031	1037	1053	1054	1050	1051	1035	1041	1045	1065	1040	1036	1037	1043	1042
12	1043	1025	1021	1026	1034	1030	1037	1041	1041	1035	1029	1024	992	1024	1035	1026	1036	1042	1036	1074	1045	1037	1038	1048	1027	1034
13	1027	1034	1032	1028	1030	1034	1039	1040	1044	1040	1037	1037	1039	1040	1030	1013	1025	1029	1045	1039	1035	1049	1044	1041	1042	1036
14	1042	1027	1034	1033	1034	1039	1039	1039	1042	1040	1036	1034	1037	1036	1042	1037	1039	1037	1031	1038	1039	1053	1043	1060	1028	1039
15	1028	1031	1031	1031	1037	1043	1045	1048	1041	1035	1033	1028	1033	1036	1038	1040	1035	1033	1047	1036	1048	1067	1032	1028	1032	1038
16	1032	1035	1029	1033	1035	1042	1040	1043	1037	1041	1036	1031	1029	1032	1028	1037	1032	1025	1027	1047	1042	1027	1038	1025	1033	1034
17	1033	1037	1047	1035	1041	1043	1054	1047	1052	1051	1047	1041	1038	1021	1033	1035	1042	1039	1042	1040	1036	1039	1041	1037	1036	1041
18	1036	1037	1033	1036	1036	1039	1041	1042	1045	1047	1043	1041	1039	1041	1043	1043	1034	1037	1039	1041	1043	1040	1041	1040	1041	1040
19 Q	1041	1043	1040	1040	1041	1042	1045	1046	1048	1046	1044	1038	1039	1036	1039	1040	1041	1044	1045	1040	1045	1041	1043	1041	1040	1042
20 Q	1040	1039	1038	1040	1040	1042	1045	1046	1045	1045	1044	1042	1039	1034	1035	1041	1041	1044	1044	1044	1045	1045	1044	1040	1039	1042
21 Q	1039	1036	1036	1039	1041	1045	1046	1043	1043	1042	1039	1039	1042	1043	1043	1042	1044	1046	1046	1047	1047	1044	1044	1041	1039	1042
22	1039	1040	1039	1040	1041	1065	1058	1049	1049	1049	1047	1040	1037	1036	1039	1048	1049	1050	1049	1048	1047	1045	1042	1038	1037	**1045**
23	1037	1039	1037	1038	1042	1043	1046	1050	1050	1048	1042	1037	1038	1038	1039	1028	1011	1015	1021	1013	1023	1018	1026	1029	1028	1033
24	1028	1031	1031	1034	1035	1042	1041	1043	1043	1043	1038	1034	1033	1034	1038	1039	1040	1042	1043	1043	1043	1041	1040	1037	1036	1038
25	1036	1038	1036	1038	1042	1042	1043	1045	1043	1032	1037	1032	1025	1032	1037	1037	1040	1028	1018	1049	1033	1027	1024	1027	1033	1035
26 Q	1033	1032	1032	1032	1035	1037	1042	1043	1043	1042	1038	1032	1029	1033	1034	1037	1038	1039	1035	1035	1033	1031	1042	1038	1036	1036
27 Q	1036	1037	1036	1034	1033	1039	1041	1043	1046	1043	1037	1033	1033	1032	1033	1032	1040	1042	1045	1044	1041	1041	1039	1040	1040	1038
28	1040	1039	1040	1038	1041	1046	1046	1047	1041	1044	1042	1045	1047	1048	1035	1025	1027	1015	1002	1001	1027	1031	1023	1015	1056	1034
29	1056	1026	1033	1036	1031	1034	1030	1040	1040	1038	1010	996	996	1025	1003	1032	1020	1011	1025	1031	1035	1033	1032	1030	1025	**1026**
30	1025	1031	1036	1040	1035	1043	1040	1027	1033	1033	1007	1012	1007	1014	1006	1017	1018	1024	1032	1031	1027	1042	1049	1054	1032	1029
31	1032	1037	1026	1029	1029	1035	1038	1022	1020	1024	1018	1022	1021	1025	1034	1030	1021	1039	1026	1059	1049	1025	1039	1037	1025	1031
Mean	1037	1037	1037	1036	1037	1042	1044	**1045**	1042	1039	1033	1030	**1027**	1029	1031	1032	1034	1035	1036	1041	1043	1042	1039	1040	1036	1037

TERRESTRIAL MAGNETIC FORCE: WEST COMPONENT.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

314. Eskdalemuir. (—Y.) 4,000 γ (·04 C.G.S. unit) + **December, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Mean.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	147	147	153	151	156	156	153	155	167	150	149	153	161	165	157	153	151	147	145	134	115	114	115	134	138	147
2 D	138	135	140	139	147	150	155	155	166	182	167	173	158	169	174	148	155	161	153	140	87	67	112	135	161	147
3 D	161	155	107	134	147	167	158	160	158	154	163	158	154	161	155	129	135	147	120	133	87	100	105	141	148	141
4 D	148	150	153	152	157	156	165	173	160	166	161	160	158	161	144	145	128	143	113	139	138	121	108	118	146	147
5 D	146	154	141	146	146	150	146	152	158	148	145	154	148	133	159	133	146	148	146	147	140	134	106	107	121	143
6	121	140	146	158	166	153	148	146	146	152	153	154	141	154	160	145	132	139	146	119	140	140	131	128	134	144
7	134	141	146	152	152	158	148	146	146	140	146	148	150	154	160	153	147	147	137	145	140	138	131	138	141	146
8	141	141	163	148	152	152	148	147	147	146	147	152	158	159	159	153	150	148	147	146	140	140	136	146	134	148
9	134	140	147	152	152	152	152	152	152	152	148	148	150	156	158	154	154	153	150	135	132	126	134	139	140	147
10	140	154	133	148	135	147	153	150	146	172	154	165	154	154	152	148	150	147	147	146	144	139	134	126	125	147
11 D	125	128	133	141	146	146	140	146	146	146	150	155	158	157	159	163	174	174	165	165	119	140	128	110	118	146
12	118	132	150	145	137	146	145	146	146	146	146	154	150	160	160	161	113	154	154	109	115	119	133	118	124	140
13	124	137	133	143	151	145	144	145	145	141	145	157	158	156	156	142	146	159	134	147	136	119	125	132	130	143
14	130	147	145	140	145	145	146	145	145	145	151	156	159	153	158	156	138	151	153	139	129	145	132	101	130	144
15	130	134	141	146	145	146	151	151	151	140	145	143	153	163	156	151	147	126	139	147	137	110	111	132	132	141
16	132	139	146	157	153	145	145	145	139	145	149	146	158	160	158	152	156	159	148	141	132	127	137	141	132	146
17	132	171	136	130	139	153	146	145	145	145	152	151	167	151	159	163	161	164	159	158	146	125	138	134	138	**149**
18	138	145	144	145	146	148	148	149	146	146	144	145	150	153	158	159	156	158	155	153	145	144	138	139	142	148
19 Q	142	138	138	145	150	144	150	146	146	146	146	145	147	152	153	152	151	151	151	150	148	148	146	144	145	147
20 Q	145	145	145	148	146	150	150	149	146	147	148	148	150	152	152	152	151	150	150	146	146	144	142	144	144	148
21 Q	144	144	145	145	145	145	145	145	145	146	148	150	151	152	152	151	151	150	150	150	150	146	133	137	135	146
22	135	138	138	145	145	150	138	143	144	144	148	151	152	157	157	158	157	152	152	151	150	144	131	123	132	146
23	132	145	144	147	147	144	145	145	143	144	145	150	161	162	163	163	170	171	171	154	135	111	117	135	137	148
24	137	130	132	137	143	143	143	143	143	143	145	150	152	156	152	150	147	144	143	142	138	137	137	132	137	142
25	137	142	135	132	118	130	137	143	142	139	145	151	157	157	157	157	154	156	157	97	120	123	122	130	137	139
26 Q	137	139	145	144	145	145	144	143	139	137	139	143	145	152	154	151	147	145	144	143	141	136	137	136	143	143
27 Q	143	144	143	144	147	144	143	143	143	143	143	145	150	154	157	155	150	145	145	143	143	141	139	143	143	145
28	143	141	145	138	143	145	144	143	143	149	151	156	163	164	159	158	158	161	157	142	136	137	131	116	110	146
29	110	129	136	138	136	143	156	160	150	150	150	156	162	169	166	172	148	144	140	137	136	136	137	134	122	146
30	122	101	171	122	135	174	138	151	149	153	155	154	160	156	146	138	143	143	145	136	126	131	121	91	106	140
31	106	131	139	133	137	146	149	162	172	166	148	148	150	150	148	138	142	127	125	111	108	125	123	119	117	**138**
Mean	134	141	142	143	145	149	148	149	149	149	149	152	154	157	**157**	152	149	150	146	140	132	129	**128**	129	134	145

Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

Mean values for periods of sixty minutes centred at the Hours of Greenwich Mean Time.

315. Eskdalemuir. (Z.) 44,000 γ (·44 C.G.S. unit) + **December, 1931.**

Hour. G.M.T.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.
Day.	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	872	872	872	871	870	868	868	868	864	864	864	864	864	873	884	888	891	894	895	894	887	882	879	874	872	876
2 D	872	860	853	852	860	867	868	869	868	865	865	867	874	877	880	902	897	888	887	887	886	865	874	863	840	872
3 D	840	827	837	848	852	845	844	857	861	867	867	870	874	878	882	892	894	887	889	883	880	871	870	861	861	**866**
4 D	861	866	867	858	855	862	865	864	870	875	875	876	879	883	890	901	909	902	904	891	890	881	871	862	863	877
5 D	863	825	833	851	863	865	869	871	871	876	880	880	882	897	897	906	903	890	885	885	884	873	864	864	868	874
6	868	869	869	868	857	860	865	869	869	869	872	869	877	883	886	891	890	886	884	885	879	879	881	873	870	874
7	870	871	872	870	872	869	870	871	870	873	872	875	878	879	881	882	884	885	887	883	882	876	874	874	875	876
8	875	874	865	867	868	870	870	871	871	874	872	871	871	872	875	877	878	875	875	876	877	880	880	876	870	873
9	870	872	872	872	872	871	871	868	868	868	871	871	871	872	877	882	882	881	881	887	892	893	889	882	882	877
10	882	876	866	857	861	865	865	866	873	866	873	873	873	877	879	883	883	882	882	881	881	880	879	878	880	874
11 D	880	880	882	879	878	878	876	875	874	872	872	874	874	875	876	879	880	884	890	892	920	896	892	891	883	882
12	883	880	879	864	866	874	877	879	878	876	876	876	880	881	884	889	906	893	891	891	881	884	871	867	877	880
13	877	877	880	881	880	881	881	882	882	881	878	878	878	881	887	898	895	892	893	890	891	891	887	879	880	884
14	880	881	879	880	883	883	883	882	880	879	877	876	878	879	881	883	888	887	888	891	892	880	879	879	879	882
15	879	877	879	880	882	880	877	876	878	880	880	883	882	880	885	889	890	897	893	890	889	887	884	885	884	884
16	884	883	882	878	879	881	881	880	881	881	878	878	881	882	887	890	894	895	899	902	899	900	895	886	885	887
17	885	873	864	874	877	876	866	873	877	879	877	878	881	883	883	883	883	888	888	888	890	891	888	884	883	880
18 Q	883	880	880	879	879	879	879	879	876	875	872	873	876	876	876	879	881	881	882	883	884	885	885	884	881	879
19 Q	881	880	879	877	877	876	876	876	877	877	877	877	877	876	876	878	881	880	880	881	881	881	881	881	881	878
20	881	880	881	878	878	878	878	878	878	878	877	876	875	875	875	878	878	879	879	881	881	880	882	882	881	879
21 Q	881	882	882	880	879	879	879	879	880	880	881	881	880	880	880	881	881	880	880	880	880	882	885	884	884	881
22	884	882	881	881	880	872	873	876	876	875	873	877	880	882	881	881	882	882	882	882	882	885	887	890	886	880
23	886	882	882	882	880	879	878	878	878	878	883	879	880	880	880	886	891	896	901	914	913	913	909	899	894	889
24	894	893	892	888	885	884	884	882	882	882	883	882	885	885	885	885	885	885	885	886	886	885	885	885	885	885
25	885	883	882	877	877	878	878	878	878	879	881	880	882	882	883	887	887	891	896	905	900	894	892	891	887	885
26 Q	887	888	887	888	887	885	884	884	883	883	882	884	884	883	884	888	889	888	888	887	887	889	885	882	883	886
27 Q	883	884	885	886	885	885	885	885	883	882	881	883	885	885	885	886	886	886	886	886	885	883	884	883	882	884
28	882	884	883	883	883	883	883	882	882	882	881	879	878	879	883	887	891	897	917	927	909	898	896	898	880	889
29	880	883	883	883	884	885	880	876	879	880	885	888	884	890	897	905	914	919	921	908	902	894	895	894	894	**892**
30	894	878	857	873	868	853	861	872	880	881	886	890	890	892	896	905	904	904	900	899	901	896	895	888	879	886
31	879	870	871	883	887	887	886	887	887	887	888	893	896	893	898	901	905	907	909	903	901	902	898	889	888	892
Mean	878	875	**873**	874	874	874	874	875	876	876	877	877	879	881	884	889	890	890	891	**891**	890	886	884	881	879	881

DAILY EXTREMES OF EACH COMPONENT OF TERRESTRIAL MAGNETIC FORCE:

316. Eskdalemuir. MAGNETIC CHARACTER FIGURES: TEMPERATURE IN MAGNET HOUSE. **December, 1931.**

Day.	Terrestrial Magnetic Force. North Component. Maximum 15000 γ +		Minimum 15000 γ +		Range.	West Component. Maximum 4000 γ +		Minimum 4000 γ +		Range.	Vertical Component. Maximum 44000 γ +		Minimum 44000 γ +		Range.	Character Figure $\frac{\Sigma R^2}{100\gamma^2}$ §	Magnetic Character of Day (0–2)	Temperature in Magnet House 200 +
	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ	h. m.	γ	γ	h. m.	γ			°A.
1	19 50	1065	994	13 5	71	7 56	173	94	19 42	79	18 28	903	863	10 12	40	129	1	84·3
2 D	20 8	1142	974	12 7	**168**	9 19	193	**0**	21 4	**193**	15 32	910	843	24 0	67	700	1	84·1
3 D	20 4	1112	989	9 43	123	5 42	187	68	19 53	119	15 32	901	823	0 53	78	354	1	84·1
4 D	22 3	1109	983	15 11	126	7 13	187	72	17 58	115	15 23	918	853	3 39	65	333	1	84·1
5 D	21 0	1118	**967**	12 30	151	14 18	180	85	22 10	95	15 43	910	**821**	1 20	**89**	397	1	84·1
6	22 42	1075	987	11 59	88	3 39	170	100	18 44	70	15 8	894	856	4 5	38	141	1	84·1
7	21 12	1072	1016	12 20	56	4 48	166	125	17 53	41	17 54	890	868	5 7	22	53	0	84·0
8	23 9	1077	1033	10 39	44	1 54	182	131	24 0	51	22 0	881	862	2 10	19	49	0	83·9
9	7 13	1059	1016	19 59	43	13 20	160	115	20 23	45	20 49	895	868	7 51	27	46	0	84·0
10	1 7	1076	988	7 50	88	1 7	184	112	21 31	72	15 23	886	852	3 20	34	141	1	84·0
11 D	20 29	1086	1010	19 59	76	16 18	187	66	20 9	121	19 42	**943**	871	9 30	72	256	1	83·9
12	19 30	1115	983	12 0	132	2 19	180	85	19 24	95	15 47	909	860	22 26	49	289	1	83·9
13	22 15	1084	999	14 59	85	16 58	165	111	21 30	54	14 58	900	877	11 30	23	107	1	83·9
14	20 38	1099	1018	1 11	81	20 47	178	97	22 48	81	20 10	895	875	11 10	20	135	1	83·9
15	21 7	**1146**	997	17 3	149	12 58	165	65	21 1	100	17 23	901	876	7 23	25	328	1	83·8
16	19 20	1104	1017	14 19	87	19 31	167	98	19 11	69	19 10	907	876	2 58	31	133	1	83·8
17	22 10	1062	1008	12 40	54	0 52	179	116	21 22	63	21 32	892	861	1 49	31	78	1	83·8
18	14 38	1051	1029	3 31	22	14 33	163	137	21 31	26	21 10	886	871	10 0	15	14	0	83·8
19 Q	9 48	1052	1034	13 9	18	14 23	156	137	1 33	19	22 20	882	875	13 30	7	7	0	83·7
20 Q	21 23	1050	1032	13 2	18	14 4	153	140	21 58	**13**	0 40	882	874	13 10	8	6	0	83·7
21 Q	21 51	1051	1034	0 32	**17**	12 20	152	123	22 6	29	22 20	886	879	12 0	7	12	0	83·7
22	4 55	1070	1030	23 32	40	14 50	164	114	22 31	50	22 30	891	872	4 55	19	45	0	83·7
23	8 0	1052	983	21 7	69	16 46	187	102	20 14	85	19 12	918	878	10 0	40	136	1	83·7
24	21 23	1048	1025	0 28	23	12 52	157	123	1 42	34	0 1	896	881	8 0	15	19	0	83·7
25	19 5	1083	996	20 8	87	18 30	164	57	18 54	107	18 53	911	872	3 18	39	205	1	83·6
26 Q	21 52	1053	1029	1 27	24	13 16	156	129	22 29	27	21 33	889	881	22 20	8	14	0	83·6
27 Q	8 38	1047	1027	3 40	20	13 24	158	138	7 22	20	16 3	887	881	10 0	**6**	8	0	83·6
28	23 38	1115	985	18 35	130	18 23	178	102	23 32	76	18 50	930	878	23 58	52	254	1	83·6
29	8 50	1046	985	10 59	61	14 32	178	103	0 1	75	17 58	925	876	6 52	49	117	1	83·5
30	0 37	1086	973	1 19	113	1 40	**217**	48	0 52	169	15 37	907	850	5 0	57	446	1	83·3
31	19 4	1104	1004	16 21	100	8 31	177	84	18 56	93	17 34	910	866	1 15	44	206	1	83·3
Mean	—	1081	1005	—	76	—	173	99	—	74	—	901	866	—	35	166	0·65	83·8
No. of Days used.	—	31	31	—	31	—	31	31	—	31	—	31	31	—	31	31	31	31

§ For explanation *see* page 169. Q denotes an "International Quiet Day," while D denotes a disturbed day used for the computation of Tables 323–334.

(Not corrected for the effect of the North Force on the West Magnetograph, or *vice versa*, or for the effect of the Horizontal Force on the V.F. Balance).

Departures from the mean of the day adjusted for non-cyclic change.

NORTH COMPONENT (*all days*).

317. Eskdalemuir. **1931.**

Month and Season.	Hour. 1.	GMT. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	−3.8	−1.2	−0.1	+1.7	+4.0	**+6.1**	+5.7	+4.1	+0.2	−1.7	−4.3	**−5.1**	−2.3	−0.1	−2.2	−1.7	−1.0	+1.4	+1.1	+1.8	−0.1	−0.8	−2.2	+0.5
Feb.	+3.2	+1.0	+0.9	+0.2	+4.0	+7.4	**+7.6**	+3.8	−1.2	−5.7	−10.0	**−10.8**	−8.8	−5.5	−2.4	−2.3	0.0	+0.8	+2.4	+3.5	+3.4	+4.8	+1.9	+1.8
Mar.	+6.2	+4.3	+5.5	+5.4	+8.0	+8.3	+8.4	+3.6	−6.1	−15.2	−22.3	**−24.8**	−21.0	−14.1	−5.1	+0.8	+1.9	+5.8	+7.9	+8.2	+7.9	**+9.6**	+8.5	+8.3
April	+9.4	+7.3	+6.9	+8.0	+7.6	+6.4	+3.7	−1.9	−11.4	−24.4	**−30.1**	−29.8	−22.8	−14.8	−4.9	+1.5	+7.7	+12.4	+11.6	+12.0	+10.5	+10.9	+11.6	**+12.6**
May	+4.8	+4.3	+4.9	+6.7	+4.9	+0.8	−2.6	−7.6	−13.6	−23.2	**−28.4**	−25.0	−17.8	−9.3	−2.8	+6.5	+14.5	**+18.4**	+17.2	+15.2	+9.7	+8.5	+7.2	+6.7
June	+7.2	+5.8	+6.9	+3.6	+5.1	+1.7	−3.1	−10.1	−19.1	−26.2	**−29.3**	−25.2	−19.0	−13.4	−2.0	+3.6	+13.4	+19.6	**+22.2**	+19.5	+14.3	+9.7	+8.2	+6.6
July	+6.0	+6.6	+6.0	+6.8	+7.8	+4.4	−1.9	−8.9	−17.9	−26.4	**−31.2**	−29.2	−21.1	−11.6	−2.0	+5.9	+12.2	+14.8	+17.5	**+17.9**	+15.4	+11.5	+9.6	+7.8
Aug.	+7.6	+5.6	+5.1	+4.6	+5.6	+3.1	−2.8	−9.2	−16.2	−21.5	**−26.9**	−24.4	−14.9	−6.9	−2.6	+4.5	+7.6	+11.5	+13.9	**+14.8**	+13.5	+11.0	+8.0	+9.0
Sept.	+8.3	+7.2	+6.6	+6.4	+7.2	+7.6	+3.3	−6.4	−16.5	−24.8	**−26.4**	−23.4	−17.8	−9.7	−5.6	−0.7	+6.1	+10.1	+11.0	+10.6	+11.7	**+14.1**	+12.0	+9.1
Oct.	+7.4	+4.0	+4.5	+6.4	+7.2	+10.1	+5.9	−1.8	−9.2	−20.3	−22.1	**−23.8**	−17.6	−9.1	−1.3	+3.1	+1.2	+6.0	+6.8	+6.7	+6.7	+10.0	**+10.6**	+8.6
Nov.	+2.2	−0.8	+2.8	+2.7	+8.7	**+9.4**	+7.2	+4.5	−3.9	−11.6	**−14.6**	−14.5	−13.0	−10.2	−5.1	−2.5	+0.8	+4.4	+2.4	+7.8	+7.2	+6.4	+5.3	+4.4
Dec.	+0.2	−0.6	−1.1	+0.1	+4.9	+6.8	**+7.5**	+4.9	+1.4	−4.0	−6.8	**−10.3**	−7.6	−5.9	−4.4	−2.8	−2.1	−0.8	+4.0	+5.9	+5.2	+2.6	+3.0	−0.1
Year	+4.9	+3.6	+4.1	+4.4	+6.3	+6.0	+3.2	−2.1	−9.5	−17.1	**−21.0**	−20.5	−15.3	−9.2	−3.4	+1.3	+5.4	+8.7	+9.8	**+10.3**	+8.8	+8.2	+7.0	+6.3
Winter... ...	+0.5	−0.4	+0.6	+1.2	+5.4	**+7.4**	+7.0	+4.3	−0.9	−5.7	−8.9	**−10.2**	−7.9	−5.4	−3.5	−2.3	−0.6	+1.5	+2.5	+4.7	+3.9	+3.3	+2.0	+1.7
Equinox ...	+7.8	+5.7	+5.9	+6.5	+7.5	+8.1	+5.3	−1.6	−10.8	−21.2	−25.2	**−25.5**	−19.8	−11.9	−4.2	+1.2	+4.2	+8.6	+9.3	+9.4	+9.2	**+11.1**	+10.7	+9.7
Summer ...	+6.4	+5.6	+5.7	+5.4	+5.8	+2.5	−2.6	−8.9	−16.7	−24.3	**−28.9**	−25.9	−18.2	−10.3	−2.3	+5.1	+11.9	+16.1	**+17.7**	+16.9	+13.2	+10.2	+8.3	+7.5

WEST COMPONENT (*all days*).

318. Eskdalemuir. **1931.**

Month and Season.	Hour. 1.	GMT. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	−7.7	−4.3	−4.3	−3.4	−0.7	−0.1	+0.7	+1.8	+3.6	+6.4	+8.1	+10.8	**+11.8**	+9.4	+4.8	+4.2	+3.9	0.0	−3.4	−5.4	−6.7	**−11.0**	−10.9	−7.6
Feb.	−7.6	−7.1	−7.8	−5.5	−4.6	−2.9	−3.7	−3.4	−3.7	−1.7	+4.7	+10.5	+16.1	**+17.9**	+15.1	+11.8	+7.0	+5.0	+1.1	−1.6	−7.5	**−12.5**	−10.4	−9.2
Mar.	−5.1	−6.2	−7.7	−4.9	−5.8	−7.3	−9.8	−12.9	**−14.1**	−8.7	+1.6	+14.0	+22.9	**+24.9**	+20.8	+13.8	+5.5	+3.7	+0.1	−1.1	−4.3	−5.7	−6.1	−7.6
April	−3.5	−4.3	−6.5	−8.5	−12.0	−13.2	−16.9	−19.8	**−20.3**	−13.6	−2.5	+10.2	+23.3	**+25.9**	+21.9	+17.3	+12.6	+8.5	+4.3	+1.5	−0.6	−0.4	−1.2	−2.2
May	−3.9	−2.0	−5.2	−9.7	−15.4	−22.9	−24.9	**−25.0**	−19.1	−9.4	+2.8	+17.4	+24.9	**+27.0**	+22.5	+18.3	+15.0	+11.6	+6.9	+2.7	−0.7	−2.6	−3.4	−4.9
June	−7.9	−7.7	−8.7	−12.0	−15.5	−22.9	−26.3	**−26.7**	−24.6	−13.0	−1.9	+12.7	+22.1	+25.5	**+26.9**	+24.1	+20.9	+17.9	+12.5	+7.9	+3.3	+1.4	−4.6	−3.4
July	−5.6	−8.7	−9.0	−11.3	−15.6	−22.4	−24.6	**−25.1**	−21.2	−14.1	−1.7	+13.0	+24.5	**+28.9**	+27.6	+22.8	+16.1	+11.5	+8.7	+5.3	+3.7	+1.2	−0.5	−3.5
Aug.	−7.6	−8.6	−10.2	−9.7	−13.3	−17.8	−17.1	**−19.0**	−18.9	−9.1	+4.8	+18.9	+29.1	**+31.8**	+23.9	+16.3	+10.4	+6.4	+4.1	+0.1	−0.9	−3.3	−5.2	−5.1
Sept.	−5.0	−10.4	−8.4	−7.5	−6.4	−9.3	−12.6	**−14.7**	−12.7	−4.4	+7.3	+19.9	**+27.1**	**+27.1**	+21.9	+14.9	+8.3	+2.0	−5.0	−2.9	−8.3	−6.8	−8.5	−5.6
Oct.	−6.8	−4.6	−3.3	−0.4	+3.7	+2.8	−1.5	−3.4	−7.2	−4.4	+7.9	+18.0	+21.8	**+24.1**	+19.8	+11.5	+1.0	−5.1	−11.9	−14.5	**−15.5**	**−15.5**	−10.3	−6.2
Nov.	−3.5	−0.7	−1.3	+0.3	+3.4	+4.8	+3.1	+0.4	−2.4	+0.9	+7.8	+14.1	+15.4	**+16.8**	+9.5	+9.3	−2.6	−6.3	−6.0	−12.0	−14.2	**−16.8**	−10.8	−9.2
Dec.	−4.6	−2.6	−1.7	+0.5	+4.0	+2.6	+4.3	+4.0	+4.2	+4.4	+7.4	+9.6	+11.7	**+12.1**	+7.0	+3.9	+5.8	+2.0	−4.4	−12.4	−15.2	**−16.3**	−15.4	−10.9
Year	−5.7	−5.6	−6.2	−6.0	−6.5	−9.1	−10.8	**−12.0**	−11.4	−5.6	+3.9	+14.1	+20.9	**+22.6**	+18.5	+14.0	+8.7	+4.8	+0.6	−2.7	−5.6	−7.4	−7.3	−6.3
Winter... ...	−5.9	−3.7	−3.8	−2.0	+0.5	+1.1	+1.1	+0.7	+0.4	+2.5	+7.0	+11.3	+13.7	**+14.1**	+9.1	+7.3	+3.5	+0.2	−3.2	−7.9	−10.9	**−14.1**	−11.9	−9.2
Equinox ...	−5.1	−6.4	−6.5	−5.3	−5.1	−6.7	−10.2	−12.7	**−13.6**	−7.8	+3.6	+15.5	+23.8	**+25.5**	+21.1	+14.4	+6.9	+2.3	−3.1	−4.3	−7.2	−7.1	−6.5	−5.4
Summer ...	−6.3	−6.7	−8.3	−10.7	−14.9	−21.5	−23.2	**−23.9**	−20.9	−11.4	+1.0	+15.5	+25.1	**+28.3**	+25.2	+20.4	+15.6	+11.9	+8.1	+4.0	+1.3	−0.8	−3.4	−4.2

VERTICAL COMPONENT (*all days*).

319. Eskdalemuir. **1931.**

Month and Season.	Hour. 1.	GMT. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	−1.5	−1.8	−2.7	−2.8	−3.9	−4.2	−4.1	**−4.4**	**−4.4**	−2.6	−1.3	−0.8	0.0	+1.6	+3.1	+4.3	+4.7	**+4.8**	+4.2	+3.6	+3.0	+3.5	+2.6	−0.9
Feb.	−5.0	−4.4	−4.3	−3.7	−4.6	−5.8	**−6.3**	−5.4	−3.9	−4.3	−4.1	−3.3	−2.8	−1.3	+3.6	+7.2	+8.7	+10.1	**+10.9**	+9.6	+7.2	+3.2	+1.1	−2.4
Mar.	−4.9	−4.5	−2.5	−2.2	−3.8	−2.7	−1.5	−0.3	−0.5	−3.0	−5.9	**−7.7**	−6.2	−3.1	+2.3	+6.5	**+8.3**	+7.6	+7.5	+7.3	+6.3	+4.1	+0.4	−1.5
April	−1.4	−1.1	−1.0	−1.4	−0.5	+0.8	+1.7	+0.5	−2.2	−5.1	−7.9	**−11.7**	**−11.7**	−7.1	−1.2	+2.6	+5.9	+8.7	**+9.7**	+8.7	+6.9	+4.7	+2.2	−0.1
May	+1.2	−1.8	−2.7	−4.0	−2.4	−1.1	−1.6	−2.9	−5.7	−10.2	−12.7	**−13.6**	−10.2	−3.8	+2.1	+5.3	+8.8	+11.7	**+12.2**	+11.8	+9.4	+5.0	+3.5	+1.7
June	−3.7	−4.3	−4.6	−3.6	−1.9	−1.4	−0.9	−1.6	−3.7	−8.3	−11.0	**−11.4**	−8.0	−4.0	0.0	+5.4	+10.5	+12.3	**+13.2**	+12.4	+10.1	+6.3	+1.1	−2.9
July	−3.4	−2.4	−1.8	−0.5	+0.4	+0.4	−1.1	−2.2	−4.5	−6.9	−9.7	**−12.0**	−10.6	−5.5	−0.7	+5.6	+10.0	**+11.7**	+11.2	+10.1	+7.8	+4.5	+1.9	−2.3
Aug.	−6.7	−5.1	−4.8	−4.9	−4.6	−3.3	−2.6	−3.0	−4.2	−7.4	−10.3	**−11.7**	−9.5	−1.7	+7.0	+11.3	+13.7	**+14.3**	+13.0	+11.1	+8.2	+3.7	−0.2	−2.3
Sept.	−14.0	−15.5	**−17.3**	−16.8	−11.3	−5.8	−1.9	−0.4	−1.6	−2.3	−4.5	−5.8	−2.3	+4.0	+10.4	+13.8	+15.5	**+16.8**	+16.6	+14.1	+11.6	+5.6	−1.1	−7.8
Oct.	**−17.9**	−16.9	−14.3	−14.9	−14.2	−11.5	−6.2	−3.0	−2.4	−2.5	−2.8	−0.8	+4.1	+9.5	+16.9	+22.0	+23.5	**+24.2**	+18.0	+11.9	+4.9	−1.6	−10.1	−15.9
Nov.	−9.4	−8.6	**−9.6**	−8.2	−8.4	−8.1	−6.1	−4.3	−2.7	−2.8	−2.5	−0.8	+3.6	+6.6	+12.2	+12.3	**+13.9**	+12.2	+10.0	+8.2	+4.1	0.0	−4.7	−6.9
Dec.	−6.1	**−7.2**	−6.8	−6.4	−6.6	−6.5	−5.5	−4.8	−4.4	−4.2	−3.3	−1.9	+0.2	+2.7	+7.6	+9.5	+8.7	**+10.0**	**+10.0**	+9.0	+5.3	+3.4	−0.2	−2.5
Year	−6.1	−6.1	−6.0	−5.8	−5.1	−4.1	−3.0	−2.7	−3.4	−5.0	−6.3	**−6.8**	−4.5	−0.2	+5.3	+8.8	+11.0	**+12.0**	+11.4	+9.8	+7.1	+3.5	−0.3	−3.7
Winter... ...	−5.5	−5.5	−5.9	−5.3	−5.9	**−6.1**	−5.5	−4.7	−3.9	−3.5	−2.8	−1.7	+0.3	+2.4	+6.6	+8.3	+9.0	**+9.3**	+8.8	+7.6	+4.9	+2.5	−0.3	−3.2
Equinox ...	**−9.5**	−9.5	−8.8	−8.8	−7.5	−4.8	−2.0	−0.8	−1.7	−3.2	−5.3	−6.5	−4.0	+0.8	+7.1	+11.2	+13.3	**+14.3**	+12.9	+10.5	+7.4	+3.2	−2.1	−6.3
Summer ...	−3.1	−3.4	−3.5	−3.3	−2.1	−1.3	−1.5	−2.4	−4.5	−8.2	−10.9	**−12.2**	−9.6	−3.7	+2.1	+6.9	+10.7	**+12.5**	+12.4	+11.3	+8.9	+4.9	+1.6	−1.5

DIURNAL INEQUALITIES OF THE MAGNETIC COMPONENTS, DECLINATION, INCLINATION, AND HORIZONTAL FORCE. ALL DAYS.

Departures from mean of the day adjusted for non-cyclic change.

DECLINATION (measured positive towards the West) (*all days*).

320. Eskdalemuir. **1931.**

Month and Season.	Hour. 1.	G.M.T. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
Jan.	−1·34	−0·80	−0·85	−0·77	−0·35	−0·34	−0·16	+0·15	+0·71	+1·37	+1·84	+2·43	+**2·48**	+1·89	+1·07	+0·93	+0·83	−0·07	−0·74	−1·17	−1·33	−**2·16**	−2·07	−1·55
Feb.	−1·69	−1·47	−1·61	−1·11	−1·13	−0·97	−1·14	−0·88	−0·68	−0·04	+1·46	+2·66	+3·68	+**3·87**	+3·15	+2·48	+1·40	+0·96	+0·09	−0·50	−1·68	−**2·75**	−2·18	−1·93
Mar.	−1·34	−1·46	−1·83	−1·26	−1·58	−1·89	−2·40	−**2·77**	−2·50	−0·95	+1·48	+4·09	+5·68	+**5·72**	+4·43	+2·72	+1·00	+0·44	−0·39	−0·65	−1·27	−1·64	−1·66	−1·95
April	−1·19	−1·24	−1·66	−2·12	−2·80	−2·97	−3·57	−**3·86**	−3·46	−1·45	+1·07	+3·60	+5·85	+**5·95**	+4·64	+3·38	+2·12	+1·05	+0·25	−0·33	−0·67	−0·65	−0·85	−1·10
May	−1·03	−0·62	−1·30	−2·29	−3·34	−4·62	−**4·84**	−4·60	−3·11	−0·67	+2·04	+4·79	+**5·91**	+5·89	+4·65	+3·32	+2·24	+1·36	+0·48	−0·25	−0·65	−0·96	−1·06	−1·33
June	−1·96	−1·84	−2·10	−2·59	−3·37	−4·67	−**5·10**	−4·81	−3·92	−1·23	+1·15	+3·86	+5·41	+**5·80**	+5·48	+4·63	+3·48	+2·56	+1·34	+0·56	−0·09	−0·23	−1·35	−1·02
July	−1·43	−2·10	−2·11	−2·61	−3·53	−4·71	−**4·82**	−4·56	−3·31	−1·44	+1·29	+4·12	+6·00	+**6·39**	+5·62	+4·25	+2·58	+1·53	+0·83	+0·13	−0·06	−0·34	−0·60	−1·11
Aug.	−1·92	−2·01	−2·31	−2·18	−2·95	−**3·72**	−3·27	−3·32	−2·93	−0·70	+2·36	+5·05	+6·60	+**6·72**	+4·92	+30·3	+1·68	+0·68	+0·09	−0·75	−0·88	−1·23	−1·46	−1·49
Sept.	−1·43	−2·46	−2·02	−1·83	−1·66	−2·26	−**2·69**	−2·61	−1·68	+0·41	+2·84	+5·20	+**6·35**	+5·93	+4·67	+3·02	+1·34	−0·13	−1·57	−1·13	−2·27	−2·10	−2·33	−1·60
Oct.	−1·75	−1·13	−0·89	−0·41	+0·35	+0·03	−0·61	−0·59	−0·96	+0·18	+2·73	+4·84	+5·28	+**5·30**	+4·03	+2·14	+0·14	−1·33	−2·73	−3·25	−3·45	−**3·62**	−2·61	−1·69
Nov.	−0·81	−0·10	−0·41	−0·08	+0·23	+0·47	+0·24	−0·15	−0·28	+0·79	+2·32	+3·58	+3·76	+**3·89**	+2·17	+1·99	−0·56	−1·49	−1·33	−2·81	−3·22	−**3·69**	−2·44	−2·07
Dec.	−0·93	−0·49	−0·28	+0·09	+0·54	+0·17	+0·47	+0·54	+0·77	+1·09	+1·83	+2·46	+**2·74**	+2·73	+1·63	+0·93	+1·27	+0·44	−1·09	−2·79	−3·31	−**3·40**	−3·24	−2·17
Year	−1·40	−1·31	−1·45	−1·43	−1·63	−2·12	−**2·32**	−2·29	−1·78	−0·22	+1·87	+3·89	+4·98	+**5·01**	+3·87	+2·73	+1·46	+0·50	−0·40	−1·08	−1·57	−1·90	−1·82	−1·58
Winter... ...	−1·19	−0·71	−0·79	−0·47	−0·18	−0·17	−0·15	−0·09	+0·13	+0·80	+1·86	+2·78	+**3·17**	+3·09	+2·01	+1·58	+0·73	−0·04	−0·77	−1·82	−2·39	−**3·00**	−2·48	−1·93
Equinox ...	−1·43	−1·57	−1·60	−1·41	−1·42	−1·77	−2·32	−**2·46**	−2·15	−0·45	+2·03	+4·43	+**5·79**	+5·73	+4·44	+2·81	+1·15	+0·01	−1·11	−1·34	−1·91	−2·00	−1·86	−1·59
Summer ...	−1·59	−1·64	−1·95	−2·42	−3·30	−4·43	−**4·51**	−4·32	−3·32	−1·01	+1·71	+4·45	+5·98	+**6·20**	+5·17	+3·81	+2·49	+1·53	+0·69	−0·08	−0·42	−0·69	−1·12	−1·24

INCLINATION (*all days*).

321. Eskdalemuir. **1931.**

Month and Season.	Hour. 1.	G.M.T. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
Jan.	+0·35	+0·10	+0·03	−0·12	−0·33	−**0·52**	−0·50	−0·40	−0·19	−0·07	+0·11	+0·13	−0·06	−0·11	+0·13	+0·15	+0·12	+0·01	+0·09	+0·05	+0·20	+0·33	+**0·40**	+0·08
Feb.	−0·20	−0·05	−0·01	−0·01	−0·30	−0·60	−**0·61**	−0·32	+0·05	+0·29	+**0·48**	+0·45	+0·22	+0·02	−0·01	+0·12	+0·10	+0·10	+0·09	+0·04	+0·09	−0·02	+0·09	−0·01
Mar.	−0·42	−0·30	−0·29	−0·32	−**0·51**	−0·50	−0·42	−0·02	+0·63	+1·06	+**1·29**	+1·19	+0·83	+0·40	+0·03	−0·12	−0·01	−0·25	−0·34	−0·35	−0·29	−0·43	−0·44	−0·45
April	−0·60	−0·43	−0·38	−0·42	−0·30	−0·16	+0·10	+0·49	+1·04	+1·70	+**1·81**	+1·49	+0·80	+0·35	−0·09	−0·33	−0·59	−0·74	−0·59	−0·59	−0·51	−0·59	−0·68	−**0·80**
May	−0·22	−0·30	−0·30	−0·38	−0·12	+0·29	+0·54	+0·87	+1·07	+1·42	+**1·50**	+1·00	+0·49	+0·07	−0·16	−0·60	−1·00	−**1·10**	−0·92	−0·74	−0·38	−0·39	−0·33	−0·31
June	−0·43	−0·35	−0·41	−0·13	−0·11	+0·24	+0·63	+1·06	+1·58	+**1·72**	+1·68	+1·14	+0·68	+0·35	−0·33	−0·52	−0·98	−1·29	−**1·34**	−1·10	−0·74	−0·50	−0·42	−0·43
July	−0·38	−0·35	−0·29	−0·27	−0·24	+0·10	+0·51	+0·95	+1·41	+1·80	+**1·81**	+1·39	+0·70	+0·12	−0·32	−0·63	−0·82	−0·88	−**1·01**	−1·00	−0·87	−0·65	−0·58	−0·51
Aug.	−0·54	−0·34	−0·26	−0·26	−0·26	+0·01	+0·40	+0·85	+1·29	+1·39	+**1·41**	+0·98	+0·25	−0·12	−0·07	−0·30	−0·34	−0·51	−0·66	−**0·69**	−0·66	−0·58	−0·43	−0·56
Sept.	−**0·80**	−0·71	−0·70	−0·71	−0·63	−0·50	−0·04	+0·65	+1·26	+**1·65**	+1·50	+1·06	+0·65	+0·28	+0·24	+0·13	−0·16	−0·28	−0·20	−0·30	−0·33	−0·67	−0·68	−0·70
Oct.	−0·82	−0·61	−0·60	−0·79	−0·89	−**1·00**	−0·51	+0·10	+0·67	+**1·34**	+1·23	+1·22	+0·89	+0·43	+0·16	+0·16	+0·50	+0·30	+0·19	+0·11	−0·07	−0·43	−0·76	−0·86
Nov.	−0·32	−0·15	−0·40	−0·38	−0·84	−**0·90**	−0·69	−0·40	+0·22	+0·68	+**0·77**	+0·68	+0·69	+0·55	+0·47	+0·31	+0·34	+0·12	+0·20	−0·11	−0·12	−0·14	−0·28	−0·28
Dec.	−0·09	−0·09	−0·07	−0·17	−0·55	−0·64	−**0·70**	−0·51	−0·28	+0·08	+0·23	+**0·48**	+0·30	+0·25	+0·35	+0·34	+0·25	+0·26	+0·05	+0·05	+0·05	+0·20	+0·07	+0·14
Year	−0·37	−0·30	−0·31	−0·33	−**0·42**	−0·35	−0·11	+0·28	+0·73	+1·09	+**1·15**	+0·93	+0·54	+0·22	+0·03	−0·11	−0·22	−0·35	−0·37	−0·39	−0·30	−0·32	−0·34	−0·39
Winter... ...	−0·07	−0·05	−0·11	−0·17	−0·51	−**0·67**	−0·63	−0·41	−0·05	+0·25	+0·40	+**0·43**	+0·29	+0·18	+0·23	+0·23	+0·20	+0·12	+0·11	+0·01	+0·05	+0·09	+0·07	−0·02
Equinox ...	−0·66	−0·51	−0·49	−0·56	−0·58	−0·54	−0·22	+0·31	+0·90	+1·44	+**1·46**	+1·24	+0·79	+0·37	+0·09	−0·04	−0·07	−0·24	−0·23	−0·28	−0·30	−0·53	−0·64	−**0·70**
Summer ...	−0·39	−0·33	−0·31	−0·26	−0·18	+0·16	+0·52	+0·93	+1·34	+1·58	+**1·60**	+1·13	+0·53	+0·11	−0·22	−0·51	−0·79	−0·95	−**0·98**	−0·88	−0·66	−0·53	−0·44	−0·45

HORIZONTAL FORCE (*all days*).

322. Eskdalemuir. **1931.**

Month and Season.	Hour. 1.	G.M.T. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	− **5·6**	− 2·3	− 1·2	+ 0·7	+ 3·7	+ **5·9**	+ 5·7	+ 4·5	+ 1·1	0·0	− 2·2	− 2·2	+ 0·8	+ 2·3	− 0·9	− 0·5	0·0	+ 1·4	+ 0·2	+ 0·3	− 1·8	− 3·6	− 4·8	− 1·4
Feb.	+ 1·2	− 0·8	− 1·1	− 1·2	+ 2·7	+ **6·5**	+ **6·5**	+ 2·8	− 2·1	− 5·9	− **8·5**	− 7·9	− 4·4	− 0·8	+ 1·5	+ 0·8	+ 1·8	+ 2·1	+ 2·6	+ 3·0	+ 1·4	+ 1·5	− 0·8	− 0·6
Mar.	+ 4·7	+ 2·6	+ 3·4	+ 4·0	+ 6·2	+ 6·2	+ 5·6	+ 0·2	− 9·5	−16·9	−**21·2**	−20·5	−14·5	− 7·3	+ 0·3	+ 4·3	+ 3·2	+ 6·5	+ 7·6	+ 7·6	+ 6·5	+ **7·9**	+ 6·7	+ 6·1
April	+ 8·2	+ 6·0	+ 5·1	+ 5·6	+ 4·4	+ 2·9	− 0·7	− 6·8	−16·1	−27·0	−**29·7**	−26·2	−16·2	− 7·8	+ 0·8	+ 5·9	+10·7	+**14·1**	+12·3	+12·0	+10·0	+10·5	+10·9	+11·6
May	+ 3·6	+ 3·7	+ 3·4	+ 4·1	+ 0·8	− 5·0	− 8·8	−13·7	−18·0	−24·9	−**26·8**	−19·8	−10·9	− 2·2	+ 3·0	+10·9	+17·8	+**20·7**	+18·3	+15·4	+ 9·2	+ 7·5	+ 6·1	+ 5·3
June	+ 5·0	+ 3·7	+ 4·5	+ 0·5	+ 1·0	− 4·2	− 9·6	−16·5	−24·7	−28·7	−**28·9**	−21·2	−12·8	− 6·6	+ 4·9	+ 9·6	+18·3	+23·5	+**24·6**	+20·9	+14·6	+ 9·8	+ 6·7	+ 5·5
July	+ 4·4	+ 4·2	+ 3·5	− 3·8	+ 3·7	− 1·3	− 8·0	−14·9	−22·6	−29·2	−**30·6**	−25·0	−14·2	− 3·9	+ 5·1	+11·4	+15·9	+17·2	+**19·1**	+18·6	+15·8	+11·4	+ 9·2	+ 6·7
Aug.	+ 5·5	+ 3·2	+ 2·3	+ 2·1	+ 2·0	− 1·5	− 7·0	−13·7	−20·5	−23·1	−**24·8**	−18·8	− 7·1	+ 1·3	+ 3·5	+ 8·5	+10·0	+12·7	+**14·5**	+14·3	+12·9	+ 9·8	+ 6·4	+ 7·4
Sept.	+ 6·7	+ 4·4	+ 4·3	+ 4·3	+ 5·4	+ 5·1	0·0	− 9·9	−19·2	−**25·1**	−23·8	−17·7	−10·4	− 2·6	+ 0·1	+ 3·1	+ 8·0	+10·3	+ 9·3	+ 9·6	+ 9·2	+**11·9**	+ 9·5	+ 7·4
Oct.	+ 5·5	+ 2·7	+ 3·6	+ 6·1	+ 7·9	+**10·5**	+ 5·3	− 2·6	−10·7	−**20·8**	−19·4	−18·5	−11·5	− 2·7	+ 3·7	+ 5·9	+ 1·5	+ 4·5	+ 3·9	+ 2·8	+ 2·6	+ 5·8	+ 7·7	+ 6·7
Nov.	+ 1·2	− 1·0	+ 2·4	+ 2·7	+ 9·3	+**10·3**	+ 7·8	+ 4·5	− 4·4	−11·0	−**12·1**	−10·4	− 8·7	− 5·7	− 2·5	− 0·1	+ 0·1	+ 2·7	+ 0·8	+ 4·6	+ 3·4	+ 2·0	+ 2·4	+ 2·0
Dec.	− 1·0	− 1·3	− 1·5	+ 0·2	+ 5·7	+ 7·3	+ **8·4**	+ 5·7	+ 2·5	− 2·7	− 4·7	− **7·6**	− 4·5	− 2·7	− 2·5	− 1·7	− 0·5	− 0·3	+ 2·8	+ 2·6	+ 1·2	− 1·6	− 1·0	− 2·8
Year	+ 3·3	+ 2·1	+ 2·4	+ 2·7	+ 4·4	+ 3·6	+ 0·4	− 5·0	−12·0	−17·9	−**19·4**	−16·3	− 9·5	− 3·2	+ 1·4	+ 4·8	+ 7·2	+ 9·6	+ **9·7**	+ 9·3	+ 7·1	+ 6·1	+ 4·9	+ 4·5
Winter... ...	− 1·1	− 1·3	− 0·3	+ 0·6	+ 5·3	+ **7·5**	+ 7·1	+ 4·4	− 0·7	− 4·9	− 6·9	− **7·0**	− 4·2	− 1·7	− 1·1	− 0·4	+ 0·3	+ 1·5	+ 1·6	+ 2·6	+ 1·1	− 0·4	− 1·1	− 0·7
Equinox ...	+ 6·3	+ 3·9	+ 4·1	+ 5·0	+ 6·0	+ 6·2	+ 2·5	− 4·8	−13·9	−22·5	−**23·5**	−20·7	−13·1	− 5·1	+ 1·2	+ 4·8	+ 5·9	+ 8·9	+ 8·3	+ 8·0	+ 7·1	+ **9·0**	+ 8·7	+ 7·9
Summer ...	+ 4·6	+ 3·7	+ 3·4	+ 2·6	+ 1·9	− 3·0	− 8·3	−14·7	−21·5	−26·5	−**27·8**	−21·2	−11·3	− 2·9	+ 4·1	+10·1	+15·5	+18·5	+**19·1**	+17·3	+13·1	+ 9·6	+ 7·1	+ 6·2

DIURNAL INEQUALITIES OF THE GEOGRAPHICAL COMPONENTS OF MAGNETIC FORCE.—INTERNATIONAL QUIET DAYS.

Departures from the mean of the day adjusted for non-cyclic change.

NORTH COMPONENT (*Quiet Days*).

323. Eskdalemuir. **1931.**

Month and Season.	Hour. 1.	G.M.T. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	− 3·4	− 2·3	− 2·5	− 0·2	+ 2·3	+ 5·3	+ 4·0	+ 1·9	+ 0·2	− 1·3	− 2·9	− 2·9	− 1·1	+ 1·1	+ 1·6	− 1·3	− 0·4	+ 0·9	+ 2·5	+ 3·0	+ 0·7	− 1·1	− 1·6	− 2·5
Feb.	+ 3·1	+ 1·1	− 1·5	+ 1·4	+ 1·7	+ 3·3	+ 3·7	+ 3·2	− 0·3	− 5·5	− 7·9	− 8·0	− 5·3	− 2·5	− 1·1	− 0·4	+ 0·1	+ 1·7	+ 3·3	+ 2·8	+ 1·9	+ 1·3	+ 1·7	+ 2·2
Mar.	+ 7·0	+ 6·3	+ 6·6	+ 7·1	+ 8·4	+ 9·5	+ 7·0	+ 5·5	− 6·8	−17·9	−24·4	−26·9	−21·8	−13·1	− 4·2	+ 2·5	+ 3·6	+ 5·9	+ 7·2	+ 6·9	+ 7·8	+ 7·7	+ 7·8	+ 8·3
April	+ 7·2	+ 6·8	+ 7·0	+ 6·7	+ 6·3	+ 7·0	+ 5·9	+ 1·5	− 6·5	−18·8	−25·0	−28·4	−22·4	−16·6	− 7·7	− 3·7	+ 2·9	+ 9·4	+12·3	+12·1	+10·8	+11·4	+11·6	+10·2
May	+ 7·8	+ 6·3	+ 4·0	+ 5·4	+ 7·6	+ 4·9	− 2·0	− 8·4	−15·9	−23·9	−28·0	−23·9	−14·4	− 7·5	+ 1·7	+ 7·4	+10·4	+12·9	+12·6	+10·9	+ 7·9	+ 7·5	+ 8·8	+ 7·9
June	+ 4·8	+ 3·8	+ 4·6	+ 4·7	+ 3·0	+ 2·2	− 1·8	− 8·1	−15·1	−20·6	−23·0	−22·2	−17·4	−10·2	− 3·3	+ 4·5	+ 8·2	+12·0	+14·4	+16·3	+13·6	+10·4	+ 9·0	+10·2
July	+ 5·1	+ 5·5	+ 7·7	+ 7·9	+10·0	+ 5·6	+ 1·8	− 4·9	−14·0	−22·1	−26·5	−27·6	−23·5	−12·1	− 8·0	+ 3·1	+ 9·0	+12·8	+15·8	+14·5	+14·5	+10·3	+ 7·9	+ 7·2
Aug.	+ 6·9	+ 6·8	+ 6·5	+ 6·8	+ 7·5	+ 4·5	− 1·7	− 7·8	−13·9	−24·4	−27·9	−23·1	−17·1	− 8·4	− 1·9	+ 4·6	+ 7·7	+ 9·3	+10·7	+12·6	+11·7	+ 9·8	+10·5	+10·3
Sept.	+ 7·4	+ 6·5	+ 5·8	+ 5·7	+ 7·2	+ 6·7	+ 4·6	− 0·3	−10·0	−21·5	−26·2	−23·7	−17·4	−11·9	− 5·4	− 1·7	+ 3·4	+ 5·9	+ 8·2	+11·9	+11·2	+11·7	+11·2	+10·7
Oct.	+ 4·0	+ 4·5	+ 1·7	+ 5·6	+ 9·5	+ 9·6	+ 7·3	+ 0·6	− 7·2	−16·1	−20·2	−21·9	−18·8	−10·7	− 7·4	− 3·4	− 1·1	+ 3·0	+ 8·1	+10·8	+ 9·7	+12·5	+11·6	+ 8·3
Nov.	− 2·7	− 1·7	− 0·3	+ 0·4	+ 4·7	+ 4·9	+ 1·9	+ 5·0	+ 0·5	− 4·5	− 9·3	−12·0	−10·9	− 8·5	− 4·5	− 2·6	+ 0·1	+ 4·9	+ 6·1	+ 7·4	+ 6·9	+ 6·1	+ 4·3	+ 3·8
Dec.	− 2·2	− 3·4	− 2·7	− 1·8	+ 1·2	+ 4·0	+ 4·2	+ 5·1	+ 3·6	+ 0·4	− 3·3	− 3·8	− 4·5	− 3·4	− 1·8	+ 0·5	+ 2·6	+ 2·6	+ 1·6	+ 1·8	− 0·1	+ 1·8	− 0·6	− 1·8
Year	+ 3·7	+ 3·3	+ 3·1	+ 4·1	+ 5·8	+ 5·6	+ 2·9	− 0·6	− 7·1	−14·7	−18·7	−18·7	−14·5	− 8·7	− 3·5	+ 0·8	+ 3·9	+ 6·8	+ 8·6	+ 9·3	+ 8·1	+ 7·5	+ 6·9	+ 6·2
Winter... ...	− 1·3	− 1·6	− 1·7	− 0·1	+ 2·5	+ 4·4	+ 3·5	+ 3·8	+ 1·0	− 2·7	− 5·9	− 6·7	− 5·5	− 3·3	− 1·5	− 0·9	+ 0·6	+ 2·5	+ 3·4	+ 3·7	+ 2·3	+ 2·0	+ 0·9	+ 0·4
Equinox ...	+ 6·4	+ 6·0	+ 5·3	+ 6·3	+ 7·9	+ 8·2	+ 6·2	+ 1·8	− 7·6	−18·6	−23·9	−25·2	−20·1	−13·1	− 6·2	− 1·6	+ 2·2	+ 6·1	+ 8·9	+10·4	+ 9·9	+10·8	+10·5	+ 9·4
Summer ...	+ 6·1	+ 5·6	+ 5·7	+ 6·2	+ 7·0	+ 4·3	− 0·9	− 7·3	−14·7	−22·7	−26·3	−24·2	−18·1	− 9·6	− 2·9	+ 4·9	+ 8·8	+11·7	+13·4	+13·6	+11·9	+ 9·5	+ 9·1	+ 8·9

WEST COMPONENT (*Quiet Days*).

324. Eskdalemuir. **1931.**

Month and Season.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	− 3·0	− 0·6	− 0·5	+ 0·2	0·0	− 1·1	− 1·2	− 2·0	− 0·3	+ 2·2	+ 3·2	+ 5·1	+ 6·8	+ 6·0	+ 1·5	+ 1·4	+ 1·0	+ 0·3	− 1·0	− 2·2	− 3·5	− 4·0	− 4·0	− 4·3
Feb.	− 4·5	− 8·3	− 6·4	− 4·3	− 5·0	− 5·8	− 5·4	− 5·6	− 5·3	− 3·6	+ 2·8	+ 8·0	+13·0	+14·6	+12·1	+ 6·6	+ 5·4	+ 4·0	+ 2·6	+ 1·5	− 1·8	− 4·3	− 4·5	− 5·8
Mar.	+ 0·9	+ 1·0	+ 0·6	− 1·0	− 1·9	− 5·6	−10·3	−14·8	−17·4	−11·8	− 1·3	+11·6	+19·7	+21·0	+16·4	+ 7·4	− 0·5	− 1·0	− 3·1	− 3·0	− 1·4	− 2·6	− 1·1	− 1·8
April	0·0	− 1·6	− 2·8	− 4·8	− 8·2	− 9·5	−15·9	−21·3	−20·9	−15·5	− 5·5	+ 6·3	+18·1	+19·7	+16·1	+12·1	+ 8·5	+ 6·1	+ 5·0	+ 3·6	+ 3·4	+ 2·8	+ 3·0	+ 1·3
May	+ 2·7	+ 0·5	− 3·4	− 7·6	−14·9	−21·4	−26·0	−27·9	−22·3	−11·2	+ 0·4	+13·0	+21·8	+21·4	+18·3	+12·7	+ 8·4	+ 7·4	+ 5·9	+ 5·8	+ 5·8	+ 4·5	+ 2·9	+ 3·2
June	− 6·4	− 6·0	− 8·8	−12·5	−15·2	−20·9	−24·7	−27·7	−25·1	−13·9	− 0·3	+11·4	+21·7	+26·1	+22·5	+18·5	+15·3	+14·5	+12·4	+10·1	+ 5·4	+ 4·2	+ 1·8	− 2·4
July	− 4·5	− 4·6	− 6·5	− 8·4	−12·3	−20·1	−26·3	−28·8	−26·3	−16·2	− 0·3	+13·0	+20·3	+25·6	+24·1	+20·8	+14·5	+11·9	+ 8·1	+ 7·2	+ 5·9	+ 3·6	+ 1·7	− 2·4
Aug.	− 2·6	− 2·4	− 6·6	− 7·2	−13·7	−19·7	−21·5	−24·4	−22·7	−13·2	+ 1·0	+17·3	+27·8	+31·0	+24·9	+17·0	+ 9·9	+ 5·7	+ 3·5	+ 1·4	+ 1·6	− 1·0	− 0·8	− 5·3
Sept.	− 7·1	− 7·0	− 5·6	− 5·2	− 4·6	− 7·3	−12·2	−18·7	−19·3	−11·3	− 0·2	+10·7	+19·4	+19·5	+17·7	+14·1	+11·4	+10·5	+ 4·0	+ 1·0	+ 0·4	− 2·6	− 4·3	− 3·3
Oct.	− 4·9	+ 0·3	− 1·8	− 1·8	− 3·0	− 4·3	− 7·3	−13·9	−16·5	−11·1	+ 3·8	+16·5	+19·8	+18·5	+12·7	+ 7·7	+ 4·7	+ 4·5	+ 1·4	+ 0·2	− 4·2	− 5·9	− 8·3	− 7·1
Nov.	− 6·2	− 1·0	− 1·0	+ 1·1	+ 1·4	+ 1·6	+ 0·8	+ 0·1	− 3·4	− 1·6	+ 3·6	+ 6·3	+10·2	+10·2	+ 6·2	+ 5·9	+ 2·8	− 1·8	− 1·0	− 3·3	− 6·6	− 7·6	− 8·8	− 7·9
Dec.	− 4·0	− 2·9	− 0·9	+ 0·6	− 0·5	+ 0·4	− 0·7	− 2·2	− 2·2	− 1·1	+ 0·2	+ 2·7	+ 6·4	+ 7·7	+ 6·2	+ 4·0	+ 2·3	+ 2·0	+ 0·5	− 0·2	− 2·9	− 6·5	− 5·0	− 3·9
Year	− 3·3	− 2·7	− 3·6	− 4·2	− 6·5	− 9·5	−12·6	−15·6	−15·1	− 9·0	+ 0·6	+10·2	+17·1	+18·4	+14·9	+10·7	+ 7·0	+ 5·3	+ 3·2	+ 1·9	+ 0·2	− 1·6	− 2·3	− 3·3
Winter... ...	− 4·4	− 3·2	− 2·2	− 0·6	− 1·0	− 1·2	− 1·6	− 2·4	− 2·8	− 1·0	+ 2·5	+ 5·5	+ 9·1	+ 9·6	+ 6·5	+ 4·5	+ 2·9	+ 1·1	+ 0·3	− 1·1	− 3·7	− 5·6	− 5·6	− 5·7
Equinox ...	− 2·8	− 1·9	− 2·4	− 3·2	− 4·4	− 6·7	−11·4	−17·2	−18·5	−12·4	− 0·8	+11·3	+19·3	+19·7	+15·7	+10·3	+ 6·0	+ 5·0	+ 1·8	+ 0·5	− 0·5	− 2·1	− 2·7	− 2·7
Summer...	− 2·7	− 3·1	− 6·3	− 8·9	−14·0	−20·5	−24·6	−27·2	−24·1	−13·6	+ 0·2	+13·7	+22·9	+26·0	+22·5	+17·3	+12·0	+ 9·9	+ 7·5	+ 6·1	+ 4·7	+ 2·8	+ 1·4	− 1·7

VERTICAL COMPONENT (*Quiet Days*).

325. Eskdalemuir. **1931.**

Month and Season.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	+ 0·9	+ 0·5	+ 0·7	0·0	− 0·3	− 1·3	− 1·1	− 0·9	− 1·4	− 0·1	+ 0·2	+ 0·8	− 0·2	+ 0·3	+ 0·2	+ 0·1	+ 0·7	+ 0·7	+ 0·7	− 0·2	+ 0·3	− 0·1	− 0·1	− 0·4
Feb.	− 0·2	− 0·6	+ 0·4	+ 0·1	− 0·4	− 0·4	− 1·4	− 1·9	− 1·9	− 2·2	− 2·8	− 2·4	− 2·4	− 2·4	+ 1·1	+ 2·1	+ 2·2	+ 2·0	+ 1·8	+ 1·5	+ 2·2	+ 2·6	+ 2·0	+ 1·0
Mar.	+ 0·1	+ 0·2	− 0·2	− 0·2	+ 0·1	0·0	+ 1·1	+ 1·8	+ 1·2	− 1·2	− 4·7	− 8·3	− 8·1	− 4·4	+ 0·6	+ 3·0	+ 4·3	+ 2·8	+ 2·5	+ 2·6	+ 2·6	+ 2·2	+ 1·1	+ 0·9
April	+ 1·2	+ 1·6	+ 1·7	+ 2·3	+ 2·8	+ 2·2	+ 4·4	+ 1·7	− 1·7	− 6·0	− 8·2	−10·7	−10·4	− 6·2	− 0·9	+ 1·9	+ 3·4	+ 4·8	+ 4·0	+ 3·5	+ 3·5	+ 2·8	+ 1·2	+ 1·1
May	+ 1·7	+ 1·1	+ 2·0	+ 3·7	+ 5·7	+ 5·1	+ 3·5	+ 1·5	− 2·2	− 8·3	−11·1	−12·4	−10·5	− 5·5	− 1·0	+ 1·5	+ 3·7	+ 4·3	+ 5·1	+ 3·9	+ 3·0	+ 2·5	+ 1·7	+ 1·0
June	+ 1·5	+ 1·6	+ 2·2	+ 3·5	+ 5·2	+ 4·2	+ 2·1	− 1·2	− 4·3	− 7·6	−11·8	−13·2	−10·4	− 6·8	− 3·3	+ 1·4	+ 5·3	+ 5·8	+ 5·4	− 5·5	+ 5·4	+ 4·4	+ 3·3	+ 1·8
July	+ 0·7	+ 0·9	+ 1·3	+ 2·3	+ 2·9	+ 3·2	+ 1·4	0·0	− 2·8	− 5·0	− 9·6	−12·9	−12·2	− 8·8	− 2·8	+ 3·0	+ 6·0	+ 6·6	+ 7·5	+ 5·9	+ 4·9	+ 4·3	+ 2·7	+ 0·5
Aug.	+ 0·2	+ 0·3	+ 1·3	+ 3·3	+ 4·1	+ 5·3	+ 5·0	+ 3·3	− 2·4	− 8·1	−12·7	−15·9	−14·9	− 8·3	+ 0·8	+ 5·1	+ 7·4	+ 8·3	+ 6·3	+ 4·7	+ 3·7	+ 2·9	+ 0·6	− 0·3
Sept.	− 1·0	+ 0·6	+ 0·8	+ 1·1	+ 1·2	+ 2·0	+ 4·5	+ 4·4	+ 2·5	− 1·5	− 5·9	− 8·5	− 8·9	− 5·1	− 1·1	+ 1·4	+ 2·5	+ 2·6	+ 4·0	+ 3·1	+ 1·8	+ 1·2	+ 0·6	− 2·3
Oct.	− 2·6	− 3·0	− 1·4	− 3·3	− 3·6	− 3·8	− 2·1	+ 0·6	+ 0·3	− 1·3	− 4·1	− 3·9	− 1·1	+ 3·1	+ 6·7	+ 7·8	+ 6·1	+ 5·4	+ 2·8	+ 1·3	+ 1·0	0·0	− 2·0	− 2·9
Nov.	− 0·5	+ 1·4	+ 1·1	+ 1·3	− 0·4	− 1·1	− 1·0	− 1·3	− 2·1	− 4·0	− 4·1	− 2·7	− 0·9	+ 1·0	+ 2·5	+ 3·9	+ 4·0	+ 3·9	+ 2·0	+ 1·5	+ 0·1	− 0·6	− 1·9	− 2·1
Dec.	+ 1·1	+ 1·0	+ 0·1	− 0·5	− 1·1	− 1·2	− 1·3	− 1·5	− 1·6	− 2·0	− 1·3	− 1·4	− 1·7	− 1·6	+ 0·8	+ 1·5	+ 1·1	+ 1·2	+ 1·5	+ 1·3	+ 1·7	+ 2·0	+ 1·1	+ 0·8
Year	+ 0·3	+ 0·5	+ 0·8	+ 1·1	+ 1·3	+ 1·2	+ 1·3	+ 0·5	− 1·4	− 3·9	− 6·3	− 7·6	− 6·8	− 3·7	+ 0·3	+ 2·7	+ 3·9	+ 4·0	+ 3·6	+ 2·9	+ 2·5	+ 2·0	+ 0·9	− 0·1
Winter... ...	+ 0·3	+ 0·6	+ 0·6	+ 0·2	− 0·5	− 1·0	− 1·2	− 1·4	− 1·7	− 2·1	− 2·0	− 1·4	− 1·3	− 0·7	+ 1·1	+ 1·9	+ 2·0	+ 1·9	+ 1·5	+ 1·0	+ 1·1	+ 1·0	+ 0·3	− 0·2
Equinox ...	− 0·6	− 0·1	+ 0·2	0·0	+ 0·1	+ 0·1	+ 2·0	+ 2·1	+ 0·6	− 2·5	− 5·7	− 7·9	− 7·1	− 3·1	+ 1·3	+ 3·5	+ 4·1	+ 3·9	+ 3·3	+ 2·6	+ 2·2	+ 1·5	+ 0·2	− 0·8
Summer ...	+ 1·0	+ 1·0	+ 1·7	+ 3·2	+ 4·5	+ 4·5	+ 3·0	+ 0·9	− 2·9	− 7·3	−11·3	−13·6	−12·0	− 7·3	− 1·6	+ 2·7	+ 5·6	+ 6·3	+ 6·1	+ 5·0	+ 4·3	+ 3·5	+ 2·1	+ 0·7

DIURNAL INEQUALITIES OF THE MAGNETIC COMPONENTS, DECLINATION, INCLINATION, AND HORIZONTAL FORCE.—INTERNATIONAL QUIET DAYS.

Departures from mean of the day adjusted for non-cyclic change.

DECLINATION (measured positive towards the West) (*Quiet Days*).

326. Eskdalemuir. **1931.**

Month and Season.	Hour. G.M.T. 1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
Jan.	−0·42	0·00	+0·03	+0·05	−0·12	−0·50	−0·45	−0·50	−0·07	+0·51	+0·79	+1·17	**+1·42**	+1·14	+0·22	+0·35	+0·22	+0·01	−0·33	−0·60	**−0·74**	**−0·74**	−0·72	−0·73
Feb.	−1·06	**−1·72**	−1·20	−0·93	−1·09	−1·33	−1·27	−1·29	−1·04	−0·43	+0·97	+2·02	+2·88	**+3·05**	+2·48	+1·34	+1·07	+0·71	+0·35	+0·15	−0·46	−0·93	−0·99	−1·27
Mar.	−0·19	−0·13	−0·22	−0·57	−0·82	−1·62	−2·43	**−3·25**	−3·13	−1·43	+1·01	+3·72	**+5·08**	+4·88	+3·50	+1·35	−0·29	−0·51	−1·00	−0·96	−0·69	−0·92	−0·63	−0·79
Apr.	−0·38	−0·67	−0·93	−1·31	−1·97	−2·27	−3·49	**−4·34**	−3·84	−2·12	+0·21	+2·74	+4·79	**+4·81**	+3·62	+2·61	+1·55	+0·73	+0·36	+0·09	+0·12	−0·04	−0·01	−0·27
May	+0·13	−0·23	−0·89	−1·80	−3·38	−4·54	−5·10	**−5·14**	−3·63	−0·99	+1·54	+3·85	**+5·11**	+4·67	+3·57	+2·15	+1·14	+0·81	+0·52	+0·59	+0·75	+0·51	+0·12	+0·23
June	−1·53	−1·40	−2·00	−2·75	−3·20	−4·29	−4·85	**−5·12**	−4·23	−1·70	+1·14	+3·44	+5·25	**+5·75**	+4·67	+3·47	+2·63	+2·27	+1·73	+1·17	+0·37	+0·30	−0·11	−1·01
July	−1·17	−1·21	−1·70	−2·09	−2·98	−4·30	−5·35	**−5·50**	−4·53	−2·09	+1·32	+4·04	+5·29	**+5·75**	+5·24	+4·00	+2·43	+1·71	+0·80	+0·68	+0·42	+0·18	−0·07	−0·86
Aug.	−0·88	−0·83	−1·66	−1·79	−3·13	−4·17	−4·21	**−4·47**	−3·81	−1·37	+1·66	+4·67	+6·45	**+6·64**	+5·08	+3·16	+1·58	+0·65	+0·14	−0·38	−0·29	−0·71	−0·71	−1·60
Sept.	−1·81	−1·74	−1·42	−1·34	−1·30	−1·81	−2·68	**−3·72**	−3·34	−1·14	+1·33	+3·38	**+4·79**	+4·52	+3·82	+2·91	+2·10	+1·79	+0·37	−0·42	−0·50	−1·13	−1·44	−1·22
Oct.	−1·19	−0·17	−0·45	−0·65	−1·10	−1·36	−1·84	−2·81	**−2·92**	−1·38	+1·81	+4·44	**+4·96**	+4·26	+2·93	+1·72	+1·00	+0·74	−0·14	−0·52	−1·35	−1·83	−2·27	−1·85
Nov.	−1·10	−0·11	−0·18	+0·20	+0·03	+0·06	+0·06	−0·24	−0·71	−0·09	+1·21	+1·89	**+2·61**	+2·48	+1·47	+1·32	+0·55	−0·62	−0·52	−1·05	−1·68	−1·84	**−1·98**	−1·77
Dec.	−0·69	−0·40	−0·04	+0·21	−0·16	−0·13	−0·36	−0·71	−0·63	−0·24	+0·21	+0·74	+1·51	**+1·72**	+1·33	+0·77	+0·32	+0·26	+0·02	−0·13	−0·57	**−1·39**	−0·97	−0·69
Year	−0·86	−0·72	−0·89	−1·06	−1·60	−2·19	−2·66	**−3·09**	−2·66	−1·04	+1·10	+3·01	**+4·18**	+4·14	+3·16	+2·10	+1·19	+0·71	+0·19	−0·11	−0·38	−0·71	−0·81	−0·99
Winter ...	−0·82	−0·56	−0·35	−0·12	−0·33	−0·47	−0·51	−0·69	−0·61	−0·06	+0·79	+1·45	**+2·11**	+2·10	+1·37	+0·95	+0·54	+0·09	−0·12	−0·41	−0·86	**−1·23**	−1·17	−1·11
Equinox ...	−0·89	−0·68	−0·75	−0·97	−1·30	−1·77	−2·61	**−3·53**	−3·31	−1·52	+1·09	+3·57	**+4·91**	+4·62	+3·47	+2·15	+1·09	+0·69	−0·10	−0·45	−0·61	−0·98	−1·09	−1·03
Summer ...	−0·86	−0·92	−1·56	−2·10	−3·17	−4·33	−4·88	**−5·06**	−4·05	−1·54	+1·41	+4·00	+5·53	**+5·70**	+4·64	+3·19	+1·95	+1·36	+0·80	+0·51	+0·31	+0·07	−0·19	−0·81

INCLINATION (*Quiet Days*).

327. Eskdalemuir. **1931.**

Month and Season.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
Jan.	**+0·30**	+0·18	+0·20	+0·01	−0·16	**−0·36**	−0·29	−0·11	−0·04	+0·05	+0·14	+0·11	−0·05	−0·18	−0·12	+0·07	+0·03	−0·05	−0·13	−0·17	+0·02	+0·14	+0·18	+0·23
Feb.	−0·13	+0·06	+0·23	−0·01	−0·02	−0·13	−0·20	−0·17	+0·07	+0·38	**+0·42**	+0·33	+0·08	−0·16	−0·09	−0·03	−0·05	−0·14	**−0·21**	−0·18	−0·02	0·00	+0·01	−0·02
Mar.	−0·48	−0·41	−0·45	−0·45	−0·50	**−0·53**	−0·29	−0·07	+0·79	+1·35	**+1·50**	+1·35	+0·90	+0·39	+0·02	−0·21	−0·13	−0·30	−0·35	−0·34	−0·43	−0·40	−0·48	−0·50
April	−0·45	−0·38	−0·38	−0·30	−0·20	−0·24	−0·01	+0·30	+0·76	+1·36	**+1·53**	+1·48	+0·90	+0·60	+0·20	+0·10	−0·25	−0·60	**−0·80**	−0·78	−0·68	−0·72	−0·79	−0·68
May	−0·52	−0·39	−0·16	−0·14	−0·10	+0·18	+0·68	+1·07	+1·38	+1·55	**+1·56**	+1·03	+0·32	0·00	−0·54	−0·66	−0·73	**−0·86**	−0·80	−0·72	−0·55	−0·50	−0·57	−0·53
June	−0·17	−0·10	−0·10	0·00	+0·20	+0·31	+0·60	+0·98	+1·30	**+1·39**	+1·21	+0·90	+0·50	+0·05	−0·25	−0·58	−0·66	−0·88	−1·00	**−1·09**	−0·86	−0·65	−0·54	−0·57
July	−0·24	−0·27	−0·37	−0·32	−0·38	+0·05	+0·37	+0·80	+1·30	**+1·60**	+1·50	+1·29	+0·90	+0·13	+0·04	−0·50	−0·68	−0·87	**−0·98**	−0·91	−0·92	−0·63	−0·48	−0·41
Aug.	−0·32	−0·40	−0·29	−0·24	−0·16	+0·19	+0·60	+1·00	+1·24	**+1·60**	+1·49	+0·83	+0·28	−0·20	−0·29	−0·48	−0·50	−0·50	−0·61	**−0·74**	−0·71	−0·55	−0·66	−0·58
Sept.	−0·38	−0·30	−0·27	−0·27	−0·37	−0·27	+0·02	+0·45	+1·04	+1·56	**+1·59**	+1·15	+0·59	+0·31	+0·01	−0·11	−0·36	−0·50	−0·51	**−0·72**	−0·69	−0·70	−0·64	−0·61
Oct	−0·24	−0·38	−0·12	−0·40	−0·67	−0·64	−0·40	+0·22	+0·77	**+1·20**	+1·17	+1·05	+0·89	+0·46	+0·43	+0·29	+0·14	−0·14	−0·50	−0·70	−0·55	**−0·72**	−0·67	−0·51
Nov.	+0·28	+0·16	+0·08	−0·01	−0·34	**−0·38**	−0·18	−0·35	−0·02	+0·22	+0·45	**+0·60**	+0·52	+0·41	+0·25	+0·16	+0·05	−0·19	−0·34	**−0·38**	−0·32	−0·30	−0·20	−0·16
Dec.	+0·24	**+0·29**	+0·20	+0·09	−0·10	−0·30	−0·30	**−0·32**	−0·24	−0·06	+0·19	+0·18	+0·15	+0·05	+0·03	−0·06	−0·19	−0·18	−0·07	−0·09	+0·10	+0·06	+0·15	+0·20
Year	−0·18	−0·16	−0·12	−0·17	−0·23	−0·18	+0·05	+0·32	+0·70	+1·02	**+1·06**	+0·86	+0·50	+0·15	−0·03	−0·17	−0·28	−0·43	−0·53	**−0·57**	−0·47	−0·41	−0·39	−0·36
Winter ...	+0·17	+0·17	+0·18	+0·02	−0·15	**−0·29**	−0·24	−0·24	−0·06	+0·15	+0·30	**+0·31**	+0·17	+0·03	+0·02	+0·03	−0·04	−0·14	−0·19	−0·21	−0·05	−0·01	+0·03	+0·06
Equinox ...	−0·39	−0·37	−0·31	−0·35	−0·43	−0·42	−0·17	+0·23	+0·84	+1·37	**+1·45**	+1·26	+0·82	+0·44	+0·17	+0·02	−0·15	−0·39	−0·54	−0·63	−0·59	−0·63	**−0·65**	−0·57
Summer ...	−0·31	−0·29	−0·23	−0·17	−0·11	+0·18	+0·56	+0·96	+1·31	**+1·53**	+1·44	+1·01	+0·50	−0·01	−0·26	−0·55	−0·64	−0·78	−0·85	**−0·87**	−0·76	−0·58	−0·56	−0·52

HORIZONTAL FORCE (*Quiet Days*).

328. Eskdalemuir. **1931.**

Month and Season.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	− **4·1**	− 2·4	− 2·5	− 0·1	+ 2·2	+ **4·8**	+ 3·6	+ 1·3	+ 0·1	− 0·7	− 2·0	− 1·5	+ 0·6	+ 2·6	+ 1·9	− 0·9	− 0·1	+ 1·0	+ 2·1	+ 2·3	− 0·2	− 2·1	− 2·5	− 3·5
Feb.	+ 1·9	− 1·0	− 3·1	+ 0·3	+ 0·3	+ 1·7	+ 2·2	+ 1·7	− 1·6	− 6·2	− **6·9**	− 5·7	− 1·8	+ 1·3	+ 1·9	+ 1·3	+ 1·5	+ 2·6	+ **3·9**	+ 3·1	+ 1·3	+ 0·1	+ 0·5	+ 0·6
Mar.	+ 7·0	+ 6·4	+ 6·6	+ 6·6	+ 7·6	+ **7·8**	+ 4·2	+ 1·6	−11·0	−20·3	**−23·9**	−23·1	−16·1	− 7·4	0·0	+ 4·3	+ 3·4	+ 5·4	+ 6·2	− 5·9	+ 7·2	+ 6·8	+ 7·3	+ 7·5
April	+ 7·0	+ 6·2	+ 6·1	+ 5·3	+ 4·0	+ 4·4	+ 1·7	− 3·9	−11·6	−22·1	−25·6	**−25·9**	−17·1	−11·1	− 3·4	− 0·6	+ 4·9	+10·6	**+13·2**	+12·6	+11·4	+11·7	+12·0	+10·3
May	+ 8·3	+ 6·2	+ 3·0	+ 3·3	+ 3·6	− 0·7	− 8·6	−15·1	−21·0	−25·9	**−27·0**	−19·8	− 8·4	− 1·9	+ 6·2	+10·4	+12·2	**+14·4**	+13·7	+12·1	+ 9·1	+ 8·4	+ 9·2	+ 8·4
June	+ 3·0	+ 2·2	+ 2·3	+ 1·4	− 0·9	− 3·2	− 7·9	−14·8	−20·9	**−23·4**	−22·4	−18·6	−11·3	− 3·3	+ 2·5	+ 9·1	+11·8	+15·3	+17·0	**+18·3**	+14·6	+11·2	+ 9·2	+ 9·3
July	+ 3·8	+ 4·1	+ 5·9	+ 5·5	+ 6·6	+ 0·4	− 4·9	−12·0	−20·2	−25·5	**−25·8**	−23·4	−17·6	− 5·2	− 1·6	+ 8·2	+12·4	+15·4	**+17·3**	+15·8	+15·5	+10·9	+ 8·0	+ 6·4
Aug.	+ 6·0	+ 6·0	+ 4·6	+ 4·8	+ 3·8	− 0·6	− 7·0	−13·7	−19·2	**−26·9**	−26·7	−18·0	− 9·6	− 0·3	+ 4·5	+ 8·8	+10·0	+10·4	+11·3	**+12·6**	+11·7	+ 9·2	+10·0	+ 8·7
Sept.	+ 5·4	+ 4·5	+ 4·2	+ 4·2	+ 5·8	+ 4·7	+ 1·4	− 5·0	−14·6	−23·6	**−25·5**	−20·2	−11·9	− 6·6	− 0·7	+ 2·0	+ 6·2	+ 8·3	+ 8·9	**+11·8**	+10·9	+10·6	+ 9·7	+ 9·6
Oct.	+ 2·7	+ 4·5	+ 1·1	+ 4·9	+ 8·4	+ 8·2	+ 5·3	− 2·9	−11·2	−18·4	**−18·6**	−17·0	−13·2	− 5·7	− 4·0	− 1·4	+ 0·1	+ 4·0	+ 8·2	**+10·6**	+ 8·3	**+10·6**	+ 9·1	+ 6·2
Nov.	− 4·2	− 1·9	− 0·6	+ 0·7	+ 4·9	+ 5·1	+ 2·0	+ 4·8	− 0·4	− 4·8	− 8·1	**−10·0**	− 8·0	− 5·6	− 2·8	− 1·0	+ 0·8	+ 4·2	+ 5·6	+ **6·4**	+ 5·0	+ 4·0	+ 2·0	+ 1·5
Dec.	− 3·1	− **4·0**	− 2·8	− 1·5	+ 1·1	+ 4·0	+ 3·9	+ **4·3**	+ 2·9	+ 0·1	− 3·1	− 3·0	− 2·8	− 1·4	− 0·1	+ 1·5	+ 3·1	+ 3·0	+ 1·6	+ 1·6	− 0·8	+ 0·1	− 1·9	− 2·7
Year	+ 2·8	+ 2·6	+ 2·1	+ 2·9	+ 3·9	+ 3·1	− 0·3	− 4·5	−10·7	−16·5	**−18·0**	−15·5	− 9·8	− 3·7	+ 0·4	+ 3·5	+ 5·5	+ 7·9	+ 9·1	+ **9·4**	+ 7·8	+ 6·8	+ 6·1	+ 5·2
Winter ...	− 2·4	− 2·3	− 2·3	− 0·1	+ 2·1	+ **3·9**	+ 2·9	+ 3·0	+ 0·3	− 2·9	− 5·0	− **5·1**	− 3·0	− 0·8	+ 0·2	+ 0·2	+ 1·3	+ 2·7	+ 3·3	+ 3·3	+ 1·3	+ 0·5	− 0·5	− 1·0
Equinox ...	+ 5·5	+ 5·4	+ 4·5	+ 5·3	+ 6·5	+ 6·3	+ 3·1	− 2·5	−12·1	−21·1	**−23·4**	−21·5	−14·6	− 7·7	− 2·0	+ 1·1	+ 3·7	+ 7·1	+ 9·1	**+10·2**	+ 9·5	+ 9·9	+ 9·5	+ 8·4
Summer ...	+ 5·3	+ 4·6	+ 3·9	+ 3·7	+ 3·3	− 1·0	− 7·1	−13·9	−20·3	−25·4	**−25·5**	−19·9	−11·7	− 2·7	+ 2·9	+ 9·1	+11·6	+13·9	**+14·8**	+14·7	+12·7	+ 9·9	+ 9·1	+ 8·2

DIURNAL INEQUALITIES OF THE GEOGRAPHICAL COMPONENTS OF MAGNETIC FORCE.—SELECTED DISTURBED DAYS.

Departures from mean of the day adjusted for non-cyclic change.

NORTH COMPONENT (*Disturbed Days*).

329. Eskdalemuir. **1931.**

Month and Season.	Hour. G.M.T. 1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	− 5·8	− 4·3	+ 0·9	+ 6·1	+ 6·4	+ 6·7	+ 5·0	+ 4·8	− 4·4	− 3·5	−11·5	**−13·3**	− 6·3	+ 0·1	− 5·0	0·0	+ 2·0	**+ 9·9**	+ 5·2	+ 7·5	− 3·3	+ 2·1	− 3·8	+ 4·5
Feb.	+ 7·7	− 0·6	+ 2·7	− 1·9	+ 5·3	+ 9·8	**+10·5**	+ 6·8	+ 0·6	+ 0·6	− 8·4	**−10·5**	−10·2	− 8·2	− 5·0	− 5·4	− 2·5	− 2·2	− 2·7	− 2·5	+ 2·9	+10·2	+ 2·5	+ 0·5
Mar.	+ 6·6	+ 4·2	+ 5·8	+ 7·3	+ 9·6	+ 8·0	+ 6·4	+ 6·6	− 5·3	−16·0	−22·3	**−27·9**	−24·7	−15·6	− 7·1	+ 1·8	+ 0·4	+ 8·0	**+14·2**	+ 9·5	+ 6·0	+ 7·6	+13·4	+ 3·5
April	+10·5	+ 8·0	+ 5·0	+ 9·8	+ 9·4	+ 5·9	+ 2·4	− 8·3	−20·5	−30·7	**−36·4**	−28·5	−21·4	− 7·1	+ 3·1	+ 6·1	+12·4	**+16·5**	+ 9·6	+12·8	+ 8·4	+10·6	+10·1	+12·3
May	− 1·3	+ 1·7	+12·6	+16·3	+ 6·8	− 1·1	− 0·5	−11·0	−16·8	−26·6	**−39·0**	−36·2	−23·5	−16·1	−10·4	+ 5·5	+17·0	**+26·5**	+25·1	+24·4	+15·8	+14·8	+ 8·4	+ 7·6
June	+ 5·4	+ 6·4	+12·0	− 7·5	+ 3·9	− 3·3	− 0·2	−11·0	−24·7	**−37·4**	−33·5	−29·8	−11·7	−15·6	+ 2·5	− 2·0	+21·4	+28·9	**+30·3**	+27·5	+15·8	+ 8·4	+ 9·6	+ 4·6
July	+ 4·6	+13·3	+11·7	+ 5·8	+ 7·1	+12·0	+ 1·1	− 6·0	−20·6	−37·5	**−39·6**	−33·7	−26·2	− 8·1	+ 4·0	+13·6	**+17·1**	+12·4	+15·5	+14·8	+15·1	+10·9	+ 6·6	+ 6·1
Aug.	+ 7·2	+ 8·1	+ 2·3	+ 1·0	− 0·2	− 1·4	−16·8	−14·0	−11·5	−19·5	−37·4	**−40·1**	−17·2	− 2·5	− 3·9	+17·0	+13·6	+18·8	+22·0	**+22·8**	+18·9	+16·1	+ 7·6	+ 9·1
Sept.	+ 4·9	+11·4	+ 6·2	− 1·4	+ 9·5	+ 8·2	− 1·5	−13·0	−32·4	**−47·8**	−39·7	−34·7	−25·9	− 6·4	− 4·2	+ 6·0	+12·7	+21·0	+18·1	+18·8	+25·6	**+29·2**	+23·7	+11·7
Oct.	+10·5	+ 6·9	+10·6	+ 8·4	+ 2·9	+ 9·4	+ 3·8	− 3·7	−12·5	−29·8	−29·6	**−32·0**	−23·8	− 5·0	+ 0·5	**+29·7**	− 1·8	+ 7·2	+10·3	+ 3·0	+ 6·2	+ 2·5	+14·9	+11·4
Nov.	+ 7·2	+ 1·3	+ 8·5	+ 5·8	**+17·0**	+13·8	+14·8	+ 5·6	− 8·3	**−15·7**	**−23·2**	−16·1	−19·2	−16·1	− 7·5	− 4·4	− 3·6	+ 7·8	+ 1·4	+ 5·0	+15·3	+ 0·5	+ 1·6	+ 8·5
Dec.	+ 5·4	+ 0·9	+ 0·2	+ 0·9	+ 3·0	+ 2·9	+12·8	+ 3·9	−11·0	−10·1	−13·2	**−22·7**	−17·8	−11·1	− 9·0	− 2·5	− 2·4	+ 7·1	+ 9·0	**+23·7**	+19·6	+ 4·1	+ 5·8	+ 0·5
Year	+ 5·2	+ 4·8	+ 6·5	+ 4·2	+ 6·7	+ 5·9	+ 3·1	− 3·3	−13·8	−22·8	**−27·8**	−27·1	−19·0	− 9·3	− 3·5	+ 5·5	+ 7·2	+13·5	+13·2	**+13·9**	+12·2	+ 9·7	+ 8·4	+ 6·7
Winter... ...	+ 3·6	− 0·7	+ 3·1	+ 2·7	+ 7·9	+ 8·3	**+10·8**	+ 5·3	− 5·8	− 7·2	**−14·1**	**−15·7**	−13·4	− 8·8	− 6·6	− 3·1	− 1·6	+ 5·7	+ 3·2	+ 8·4	+ 8·6	+ 4·2	+ 1·5	+ 3·5
Equinox ...	+ 8·1	+ 7·6	+ 6·9	+ 6·0	+ 7·9	+ 7·9	+ 2·8	− 4·6	−17·7	−31·1	**−32·0**	−30·8	−23·9	− 8·5	− 1·9	+10·9	+ 5·9	+13·2	+13·1	+11·0	+11·5	+12·5	**+15·5**	+ 9·7
Summer ...	+ 4·0	+ 7·4	+ 9·7	+ 3·9	+ 4·4	+ 1·5	− 4·1	−10·5	−18·4	−30·3	**−37·4**	−34·9	−19·7	−10·6	− 1·9	+ 8·5	+17·3	+21·7	**+23·2**	+22·4	+16·4	+12·5	+ 8·1	+ 6·9

WEST COMPONENT (*Disturbed Days*).

330. Eskdalemuir. **1931.**

Month and Season.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
Jan.	−13·7	− 9·0	+ 2·4	+ 1·4	+ 7·8	+ 9·7	+10·0	+14·7	+18·7	+18·9	+15·4	**+19·5**	+17·8	+14·5	+ 4·5	− 0·1	+ 2·8	−11·9	−18·6	−18·6	−19·4	**−33·0**	−18·1	−15·7
Feb.	−12·1	− 9·3	−10·9	−10·4	−10·7	− 1·0	− 5·1	− 3·8	− 4·5	− 2·3	+ 6·1	+11·2	+25·7	+25·7	+25·7	**+32·6**	+16·5	+13·2	+ 4·7	− 4·2	−22·9	**−30·7**	−16·7	−16·8
Mar.	− 7·5	−13·2	−10·6	− 6·1	− 3·3	− 1·2	− 4·1	− 7·5	−10·0	− 1·0	+10·9	+20·7	+31·1	**+33·6**	+25·0	+18·5	+ 9·1	+ 7·6	− 7·9	− 6·7	**−20·0**	−19·6	−18·5	−19·3
April	− 6·7	− 5·8	−10·3	− 9·3	−15·2	−16·1	−16·7	−18·4	**−21·2**	−10·8	+ 4·0	+18·0	+30·8	**+34·6**	+33·8	+27·0	+16·1	+13·1	− 1·2	− 9·9	−12·7	− 8·2	− 4·1	−10·8
May	− 7·4	− 3·5	− 2·5	− 7·2	−17·5	−32·0	**−33·6**	−29·9	−16·4	− 5·5	+ 5·2	+22·3	+28·4	**+30·5**	+25·4	+24·2	+22·9	+21·4	+12·1	− 1·2	− 9·5	− 2·7	− 8·4	−15·1
June	−19·4	−12·8	−11·7	− 4·3	− 1·8	−17·3	−21·8	−26·3	**−27·7**	−11·4	+ 1·4	+16·8	+28·0	+26·6	**+30·7**	+29·5	+22·4	+20·3	+14·2	+ 5·5	− 3·7	− 4·4	−22·2	−10·6
July	−11·6	−19·3	−12·3	−12·3	− 6·4	−13·7	**−20·4**	−18·7	−12·9	−12·7	− 2·0	+14·5	+24·6	**+26·1**	+24·1	+22·5	+12·8	+11·9	+ 9·6	− 3·1	+ 1·7	− 0·5	+ 2·8	− 4·7
Aug.	−13·5	**−17·0**	−15·9	− 6·7	− 8·6	−14·7	+ 0·6	− 4·5	−11·6	− 8·0	+ 0·5	+15·4	+26·1	**+33·4**	+24·0	+ 9·3	+10·0	+ 8·5	+ 0·8	− 9·9	− 5·9	− 7·6	− 8·5	+ 3·8
Sept.	− 4·6	− 6·3	− 3·5	+ 8·4	+ 4·8	− 5·4	− 7·3	− 8·7	− 4·6	+ 5·6	+10·9	+20·5	+27·9	**+28·0**	+26·8	+16·3	+ 0·7	− 1·8	−12·8	−12·8	−19·5	**−23·7**	−21·6	−17·3
Oct	−21·3	−13·1	− 3·4	− 1·6	+15·7	+ 8·9	+ 6·3	+ 7·2	+ 2·0	− 3·3	+13·1	+23·8	+32·9	+41·1	**+49·2**	+16·4	− 0·7	−20·5	**−41·5**	−23·6	−22·6	−39·1	−16·9	− 9·0
Nov.	+ 1·8	+ 7·5	− 3·6	+ 1·8	+10·7	+12·8	+14·6	+ 5·7	+ 1·7	+ 8·3	+12·3	+20·3	+18·1	**+22·9**	+13·1	+17·9	−17·4	−17·0	−21·1	−24·4	−27·2	**−39·5**	−11·4	− 7·9
Dec.	− 2·3	−11·8	− 3·9	+ 2·4	+ 7·8	+ 7·1	+11·6	+12·2	+14·1	+12·2	**+15·3**	+10·6	+11·9	+14·0	− 0·3	+ 3·8	+11·0	− 3·9	+ 1·6	−28·8	−30·3	**−30·8**	−20·1	− 3·4
Year	− 9·9	− 9·5	− 7·2	− 3·7	− 1·4	− 5·2	− 5·5	− 6·5	− 6·0	− 0·8	+ 7·8	+17·8	+25·3	**+27·6**	+23·5	+18·2	+ 8·9	+ 3·4	− 5·0	−11·5	−16·0	**−20·0**	−13·6	−10·6
Winter... ...	− 6·6	− 5·7	− 4·0	− 1·2	+ 3·9	+ 7·1	+ 7·8	+ 7·2	+ 7·5	+ 9·3	+12·3	+15·4	+18·4	**+19·3**	+10·7	+13·5	+ 3·2	− 4·9	− 8·3	−19·0	−24·9	**−33·5**	−16·6	−10·9
Equinox ...	−10·0	− 9·6	− 6·9	− 2·1	+ 0·5	− 3·5	− 5·5	− 6·9	− 8·5	− 2·4	+ 9·7	+20·7	+30·7	**+34·3**	+33·7	+19·5	+ 6·3	− 0·4	−15·9	−13·3	−18·7	**−22·7**	−15·3	−14·1
Summer ...	−13·0	−13·1	−10·6	− 7·6	− 8·6	−19·4	−18·8	**−19·9**	−17·1	− 9·4	+ 1·3	+17·3	+26·8	**+29·1**	+26·1	+21·4	+17·0	+15·5	+ 9·2	− 2·2	− 4·3	− 3·8	− 9·1	− 6·7

VERTICAL COMPONENT (*Disturbed Days*).

331. Eskdalemuir. **1931.**

Month and Season.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan.	− 7·6	− 7·1	− 9·8	−11·7	−13·6	**−14·1**	−13·4	−13·3	−11·7	−10·0	− 2·2	− 0·3	+ 3·8	+ 7·6	+12·5	+18·1	**+18·8**	+17·5	+13·6	+ 9·9	+ 8·2	+ 8·7	+ 2·4	− 6·3
Feb.	−17·2	−19·0	−20·9	−20·5	−20·2	**−24·3**	−22·7	−18·8	−14·6	−13·9	−12·7	− 9·2	− 6·5	− 0·7	+ 9·4	+23·0	+32·3	+41·9	**+49·0**	+43·9	+30·7	+ 7·0	− 1·8	−14·2
Mar.	**−17·9**	−15·7	− 5·9	− 4·3	− 4·3	− 2·8	− 1·4	+ 1·0	+ 0·2	− 2·2	− 5·2	− 6·4	− 3·6	+ 1·8	+ 7·8	+10·8	+12·4	+12·4	**+13·3**	+12·1	+12·9	+ 4·1	− 8·7	−10·4
April	− 6·5	− 8·2	− 9·2	−12·5	**−12·9**	− 5·5	− 2·6	− 2·4	− 3·3	− 6·3	− 9·0	−10·9	−11·0	− 6·3	+ 1·5	+ 7·6	+15·0	+19·5	**+24·9**	+21·5	+14·4	+ 7·2	− 0·3	− 4·7
May	− 1·3	−10·0	−14·1	**−28·0**	−25·2	−11·3	− 4·4	− 4·0	− 8·2	−10·8	− 9·9	−10·1	− 4·3	+ 6·2	+11·0	+11·6	+14·2	+18·9	+23·6	**+26·8**	+20·3	+ 2·8	+ 4·1	+ 2·1
June	−11·4	−19·1	−23·1	**−27·3**	−24·5	−18·3	−10·7	− 5·1	− 2·3	− 8·5	− 8·8	− 5·2	+ 2·0	+ 6·1	+10·7	+16·5	+25·9	**+27·3**	+26·7	+24·1	+20·5	+13·9	+ 0·6	−10·0
July	**−17·6**	−14·1	−12·9	−11·5	−11·4	−10·7	− 8·7	− 8·8	−11·0	− 9·6	−10·3	−11·5	− 8·7	+ 3·2	+ 9·4	+19·6	+27·9	**+28·1**	+25·4	+24·9	+15·9	+ 8·1	− 0·2	−15·5
Aug.	**−19·0**	−11·8	−14·4	−16·3	−17·3	−13·9	−12·8	−12·2	−10·4	− 9·1	−10·1	− 7·9	− 3·6	+ 8·0	+23·2	**+30·1**	+26·9	+24·9	+25·6	+21·4	+11·4	− 1·5	− 3·9	− 7·3
Sept.	−38·4	−48·7	**−51·9**	−50·2	−29·8	−13·8	− 5·5	− 0·1	+ 2·6	+ 4·8	+ 4·9	+ 5·6	+11·5	+20·4	+27·0	+35·5	**+40·7**	+37·8	+31·6	+25·2	+18·3	+ 5·7	−10·0	−23·2
Oct.	−47·0	−40·1	−42·7	**−49·5**	−47·0	−36·2	−25·6	−17·9	−15·1	− 9·3	− 6·0	− 1·2	+12·2	+31·3	+55·9	+78·7	+79·4	**+82·0**	+57·8	+31·9	− 0·3	− 9·7	−36·4	−45·2
Nov.	−15·7	−18·8	−20·6	−17·2	**−23·0**	−21·6	−18·3	−12·0	− 7·3	− 4·8	− 1·8	+ 1·8	+10·2	+15·0	+27·5	+26·8	**+35·9**	+26·6	+22·6	+16·2	+ 2·2	− 5·4	− 5·9	−12·4
Dec.	**−22·9**	−20·1	−16·8	−12·9	−11·1	− 9·9	− 7·2	− 5·6	− 3·3	− 2·6	− 1·0	+ 2·3	+ 7·6	+10·6	+21·7	**+22·2**	+15·8	+16·7	+13·3	+17·7	+ 3·0	− 0·1	− 6·1	−11·3
Year	−18·5	−19·4	−20·2	**−21·8**	−20·0	−15·2	−11·1	− 8·3	− 7·0	− 6·9	− 6·0	− 4·4	+ 0·8	+ 8·6	+18·1	+25·0	+28·8	**+29·5**	+27·1	+23·0	+13·1	+ 3·4	− 5·5	−13·2
Winter... ...	−15·9	−16·3	−17·0	−15·6	−17·0	**−17·5**	−15·4	−12·4	− 9·2	− 7·8	− 4·4	− 1·3	+ 3·8	+ 8·1	+17·8	+22·5	**+25·7**	+25·7	+24·6	+21·9	+11·0	+ 2·5	− 2·9	−11·0
Equinox ...	−27·5	−28·2	−27·4	**−29·1**	−23·5	−14·6	− 8·8	− 4·9	− 3·9	− 3·3	− 3·8	− 3·2	+ 2·3	+11·8	+23·1	+33·1	+36·9	**+37·9**	+31·9	+22·7	+11·3	+ 1·8	−13·9	−20·9
Summer ...	−12·3	−13·7	−16·1	**−20·8**	−19·6	−13·5	− 9·1	− 7·5	− 8·0	− 9·5	− 9·8	− 8·7	− 3·7	+ 5·9	+13·6	+19·5	+23·7	+24·8	**+25·3**	+24·3	+17·0	+ 5·8	+ 0·1	− 7·7

DIURNAL INEQUALITIES OF THE MAGNETIC COMPONENTS, DECLINATION, INCLINATION AND HORIZONTAL FORCE.—SELECTED DISTURBED DAYS.

Departures from mean of the day adjusted for non-cyclic change.

DECLINATION (measured positive towards the West) (*Disturbed Days*).

332. Eskdalemuir. 1931.

Month and Season.	Hour. 1.	GMT. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
Jan. ...	−2·44	−1·58	+0·43	−0·04	+1·23	+1·59	+1·74	+2·69	+3·97	+3·96	+3·68	**+4·59**	+3·89	+2·89	+1·16	−0·02	+0·46	−2·90	−3·99	−4·11	−3·71	**−6·71**	−3·42	−3·37
Feb. ...	−2·82	−1·83	−2·32	−1·98	−2·42	−0·71	−1·57	−1·11	−0·93	−0·49	+1·66	+2·79	+5·67	+5·57	+5·40	**+6·80**	+3·43	+2·75	+1·08	−0·71	−4·73	**−6·67**	−3·47	−3·39
Mar. ...	−1·84	−2·86	−2·42	−1·60	−1·16	−0·66	−1·15	−1·84	−1·72	+0·64	+3·34	+5·60	+7·51	**+7·53**	+5·37	+3·61	+1·80	+1·10	−2·32	−1·84	−4·31	−4·32	**−4·40**	−4·04
April ...	−1·89	−1·58	−2·32	−2·37	**−3·53**	**−3·53**	−3·47	−3·25	−3·17	−0·56	+2·70	+5·09	**+7·30**	+7·29	+6·60	+5·08	+2·57	+1·76	−0·74	−2·65	−2·98	−2·19	−1·35	−2·80
May ...	−1·41	−0·79	−1·16	−2·29	−3·85	−6·34	**−6·69**	−5·41	−2·40	+0·29	+3·08	+6·35	+6·91	**+6·94**	+5·62	+4·55	+3·69	+2·90	+1·11	−1·51	−2·72	−1·31	−2·12	−3·42
June ...	−4·16	−2·89	−2·97	−0·47	−0·56	−3·29	−4·35	−4·69	−4·25	−0·33	+2·03	+4·92	**+6·21**	+6·13	+6·01	+6·00	+3·36	+2·55	+1·26	−0·34	−1·56	−1·32	**−4·94**	−2·36
July ...	−2·56	**−4·55**	−3·07	−2·76	−1·65	−3·37	−4·14	−3·43	−1·50	−0·58	+1·67	+4·66	**+6·29**	+5·64	+4·61	+3·79	+1·67	+1·73	+1·11	−1·39	−0·45	−0·67	+0·22	−1·26
Aug. ...	−3·08	**−3·82**	−3·30	−1·39	−1·71	−2·87	+1·00	−0·17	−1·72	−0·58	+2·05	+5·17	+6·12	**+6·81**	+5·00	+0·97	+1·29	+0·72	−0·99	−3·17	−2·17	−2·36	−2·10	+0·28
Sept. ...	−1·18	−1·86	−1·02	+1·75	+0·46	−1·51	−1·38	−1·06	+0·77	+3·62	+4·25	+5·91	**+6·93**	+5·93	+5·58	+2·95	−0·52	−1·46	−3·50	−3·54	−5·24	**−6·26**	−5·56	−4·07
Oct. ...	−4·81	−2·98	−1·23	−0·76	+2·99	+1·29	+1·06	+1·63	+1·05	+0·90	+4·17	+6·43	+7·82	+8·48	**+9·81**	+1·73	−0·05	−4·48	**−8·94**	−4·88	−4·84	−7·95	−4·16	−2·40
Nov. ...	−0·02	+1·43	−1·16	+0·06	+1·25	+1·84	+2·15	+0·85	+0·77	+2·48	+3·67	**+4·90**	+4·62	+5·42	+3·01	+3·81	−3·29	−3·81	−4·29	−5·15	−6·24	**−7·93**	−2·36	−2·02
Dec. ...	−0·74	−2·41	−0·79	+0·43	+1·40	+1·27	+1·65	+2·24	+3·39	+2·97	**+3·75**	+3·30	+3·31	+3·38	+0·41	+0·89	+2·33	−1·15	−0·16	−7·00	**−7·08**	−6·37	−4·32	−0·71
Year ...	−2·26	−2·14	−1·78	−0·95	−0·63	−1·36	−1·26	−1·13	−0·48	+1·03	+3·00	+4·98	**+6·05**	+6·00	+4·88	+3·35	+1·39	−0·02	−1·69	−3·02	−3·84	**−4·51**	−3·17	−2·46
Winter ...	−1·51	−1·10	−0·96	−0·38	+0·37	+1·00	+0·99	+1·17	+1·80	+2·23	+3·19	+3·89	**+4·37**	+4·31	+2·49	+2·87	+0·73	−1·28	−1·84	−4·24	−5·44	**−6·92**	−3·39	−2·37
Equinox ...	−2·43	−2·32	−1·75	−0·75	−0·31	−1·10	−1·23	−1·13	−0·77	+1·15	+3·61	+5·76	**+7·39**	+7·31	+6·84	+3·34	+0·95	−0·77	−3·85	−3·23	−4·34	**−5·18**	−3·87	−3·33
Summer ...	−2·80	−3·01	−2·63	−1·73	−1·94	**−3·97**	−3·55	−3·43	−2·47	−0·30	+2·21	+5·27	**+6·38**	+6·38	+5·31	+3·83	+2·50	+1·97	+0·62	−1·60	−1·73	−1·41	−2·23	−1·69

INCLINATION (*Disturbed Days*).

333. Eskdalemuir. 1931.

Month and Season.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
Jan. ...	+0·41	+0·25	−0·35	−0·72	−0·91	**−0·95**	−0·83	−0·90	−0·32	−0·34	+0·43	+0·54	+0·22	−0·06	+0·57	+0·45	+0·28	0·00	+0·32	+0·07	**+0·76**	+0·64	+0·62	−0·18
Feb. ...	−0·75	−0·27	−0·51	−0·22	−0·66	**−1·22**	−1·17	−0·85	−0·23	−0·35	+0·12	+0·30	+0·06	+0·09	+0·12	+0·38	+0·68	+0·95	+1·30	**+1·33**	+0·97	+0·02	+0·08	−0·19
Mar. ...	**−0·78**	−0·43	−0·32	−0·50	−0·69	−0·58	−0·39	−0·29	+0·52	+1·01	+1·15	**+1·32**	+1·00	+0·50	+0·25	−0·16	+0·12	−0·35	−0·47	−0·20	+0·28	−0·07	−0·78	−0·16
April ...	−0·75	−0·62	−0·37	−0·80	−0·69	−0·25	+0·06	+0·80	+1·63	+2·03	**+2·09**	+1·30	+0·60	−0·28	−0·73	−0·68	−0·71	**−0·82**	0·00	−0·14	+0·02	−0·38	−0·60	−0·72
May ...	+0·19	−0·30	−1·13	**−1·65**	−0·78	+0·32	+0·50	+1·11	+1·17	+1·58	**+2·22**	+1·72	+0·95	+0·69	+0·54	−0·50	−1·14	−1·64	−1·24	−0·90	−0·37	−0·82	−0·30	−0·20
June ...	−0·30	−0·68	−1·15	−0·11	−0·82	+0·07	+0·12	+1·02	+2·01	**+2·44**	+1·96	+1·52	+0·32	+0·73	−0·41	+0·04	−1·12	**−1·56**	−1·55	−1·29	−0·47	−0·14	−0·23	−0·37
July ...	−0·44	**−0·90**	−0·88	−0·47	−0·64	−0·83	+0·06	+0·49	+1·30	**+2·43**	+2·38	+1·69	+1·08	+0·15	−0·47	−0·78	−0·65	−0·32	−0·54	−0·31	−0·63	−0·51	−0·49	−0·70
Aug. ...	−0·73	−0·54	−0·23	−0·35	−0·28	+0·01	+0·78	+0·69	+0·70	+1·18	**+2·20**	+2·15	+0·58	−0·21	+0·41	−0·50	−0·41	−0·72	−0·82	−0·80	−0·85	**−0·93**	−0·46	−0·85
Sept. ...	−1·11	**−1·83**	−1·64	−1·31	−1·44	−0·80	+0·09	+1·00	+2·28	**+3·14**	+2·54	+2·08	+1·51	+0·45	+0·49	+0·23	+0·16	−0·53	−0·09	−0·40	−0·89	−1·43	−1·43	−1·04
Oct. ...	−1·50	−1·22	−1·72	**−1·76**	−1·64	−1·68	−1·00	−0·33	+0·40	+1·78	+1·58	+1·68	+1·30	+0·39	+0·52	−0·25	**+2·10**	+1·93	+1·49	+1·00	−0·01	+0·27	−1·60	−1·72
Nov. ...	−0·90	−0·68	−1·00	−0·85	**−1·87**	−1·67	−1·67	−0·77	+0·34	+0·78	+1·26	+0·75	+1·20	+1·03	+0·96	+0·65	**+1·42**	+0·44	+0·83	+0·49	−0·49	+0·50	−0·06	−0·72
Dec. ...	−0·88	−0·35	−0·36	−0·41	−0·61	−0·56	**−1·21**	−0·52	+0·31	+0·39	+0·58	+1·36	+1·14	+0·75	+1·13	+0·65	+0·35	+0·01	−0·30	−0·61	−0·70	+0·26	−0·20	−0·24
Year ...	−0·63	−0·63	−0·81	−0·76	**−0·92**	−0·68	−0·39	+0·12	+0·84	+1·34	**+1·54**	+1·37	+0·83	+0·35	+0·28	−0·04	+0·09	−0·22	−0·09	−0·15	−0·20	−0·22	−0·45	−0·59
Winter ...	−0·53	−0·26	−0·55	−0·55	−1·01	−1·10	**−1·22**	−0·76	+0·03	+0·12	+0·60	**+0·74**	+0·65	+0·45	+0·69	+0·53	+0·68	+0·35	+0·54	+0·32	+0·13	+0·35	+0·11	−0·33
Equinox ...	−1·03	−1·03	−1·01	−1·09	**−1·11**	−0·83	−0·31	+0·29	+1·21	**+1·99**	+1·84	+1·59	+1·10	+0·27	+0·13	−0·21	+0·42	+0·06	+0·23	+0·07	−0·15	−0·40	−1·10	−0·91
Summer ...	−0·32	−0·61	−0·85	−0·65	−0·63	−0·11	+0·37	+0·83	+1·29	+1·91	**+2·19**	+1·77	+0·74	+0·34	+0·02	−0·43	−0·83	**−1·06**	−1·04	−0·83	−0·58	−0·60	−0·37	−0·53

HORIZONTAL FORCE (*Disturbed Days*).

334. Eskdalemuir. 1931.

Month and Season.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan. ...	**−9·1**	−6·5	−1·5	+6·3	+8·2	**+8·9**	+7·3	+8·3	+0·4	+1·4	−7·2	−8·0	−1·6	+3·8	−3·7	0·0	+2·6	+6·6	+0·3	+2·6	−8·1	−6·3	−8·3	+0·4
Feb. ...	+4·5	−2·9	−0·1	−4·4	+2·4	**+9·2**	+8·9	+5·6	−0·5	0·0	−6·6	**−7·4**	−3·2	−1·5	+1·7	+3·0	+1·8	+1·2	−1·4	−3·5	−3·0	+2·2	−1·8	−3·7
Mar. ...	+4·5	+0·8	+2·9	+5·6	+8·5	+7·4	+5·2	+4·5	−7·6	−15·8	−18·9	**−21·8**	−16·1	−6·6	−0·6	+6·4	+2·7	+9·6	**+11·7**	+7·5	+0·8	+2·5	+8·3	−1·5
April ...	+8·5	+6·2	+2·2	+7·2	+5·3	+1·6	−1·9	−12·6	−25·1	−32·4	**−34·2**	−23·1	−12·9	+1·8	+11·5	+12·8	+16·1	**+19·3**	+9·0	+9·9	+4·9	+8·2	+8·8	+9·2
May ...	−3·2	+0·7	+11·6	+14·0	+2·2	−9·1	−9·0	−18·1	−20·4	−27·1	**−36·5**	−29·4	−15·5	−7·9	−3·7	+11·4	+22·3	**−31·1**	+27·3	+23·3	+12·9	+13·6	+6·0	+3·6
June ...	+0·3	+3·0	+8·7	−8·4	+3·3	−7·6	−5·7	−17·2	−30·9	**−39·1**	−32·0	−24·6	−4·2	−8·4	+10·1	+5·5	+26·3	**+33·1**	+32·9	+28·0	+14·4	+7·0	+3·7	+1·8
July ...	+1·6	+8·0	+8·2	+2·5	+5·3	+8·1	−4·0	−10·5	−23·2	**−39·5**	−38·8	−28·9	−19·2	−1·2	+10·0	+18·9	**+19·8**	+15·0	+17·4	+13·5	+15·0	+10·5	+7·1	+4·7
Aug. ...	+3·6	+3·5	−1·8	−0·7	−2·4	−5·1	−16·1	−14·7	−14·0	−20·9	**−36·1**	−34·9	−10·0	+6·0	+2·2	+18·8	+15·7	+20·3	**+21·5**	+19·6	+16·8	+13·7	+5·3	+9·8
Sept. ...	+3·5	+9·4	+5·1	+0·7	+10·4	+6·5	−3·3	−14·8	−32·6	**−44·9**	−35·7	−28·4	−18·1	+0·9	+2·7	+9·9	+12·5	+19·8	+14·3	+15·0	+19·9	**+22·3**	+17·5	+6·9
Oct. ...	+4·8	+3·4	+9·4	+7·7	+6·8	+11·3	+5·3	−1·8	−11·6	**−29·6**	−25·4	−25·0	−14·7	+5·6	+12·9	+32·8	−1·9	+1·8	−0·5	−3·0	+0·3	−7·5	+10·1	+8·7
Nov. ...	+7·5	+3·2	+7·3	+6·1	**+19·2**	+16·6	+18·0	+6·8	−7·6	−13·1	**−19·4**	−10·5	−14·0	−9·8	−4·0	+0·2	−7·9	+3·3	−3·9	−1·3	+7·9	−9·5	−1·4	+6·2
Dec. ...	+4·6	−2·1	−0·8	+1·5	+4·9	+4·6	+15·3	+6·9	−7·0	−6·7	−8·9	**−19·3**	−14·2	−7·2	−8·8	−1·4	+0·5	+5·9	+9·1	**+15·6**	+11·4	−3·8	+0·5	−0·5
Year ...	+2·6	+2·2	+4·5	+3·2	+6·2	+4·4	+1·7	−4·8	−15·0	−22·3	**−25·0**	−21·8	−12·0	−2·0	+2·5	+9·9	+9·2	**+13·9**	+11·5	+10·6	+7·7	+4·4	+4·7	+3·8
Winter ...	+1·9	−2·1	+2·0	+2·4	+8·7	+9·8	**+12·4**	+6·9	−3·7	−4·6	−10·5	**−11·3**	−8·3	−3·7	−3·7	+0·5	−0·7	+4·3	+1·0	+3·3	+2·1	−4·3	−2·7	+0·6
Equinox	+5·3	+4·9	+4·9	+5·3	+7·7	+6·7	+1·3	−6·2	−19·2	**−30·7**	−28·5	−24·6	−15·5	+0·4	+6·6	**+15·5**	+7·4	+12·6	+8·6	+7·3	+6·5	+6·4	+11·2	+5·8
Summer	+0·6	+3·8	+6·7	+1·9	+2·1	−3·4	−8·7	−15·1	−22·1	−21·7	**−35·9**	−2·95	−12·2	−2·9	+4·7	+13·7	+21·0	**+24·9**	+24·8	+21·1	+14·8	+11·2	+5·5	+5·0

RANGE OF MEAN DIURNAL INEQUALITIES FOR THE MONTHS, YEAR, AND SEASONS OF 1931.

NOTE.—The ranges are those shown in Tables **317** to **334**, in the preparation of which the non-cyclic change has been eliminated.

335. Eskdalemuir. 1931.

Month and Season.	All Days.			Quiet Days.			Disturbed Days.			All Days.			Quiet Days.			Disturbed Days.		
	N.	W.	V.	N.	W.	V.	N.	W.	V.	D.	I.	H.	D.	I.	H.	D.	I.	H.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	′	′	γ	′	′	γ	′	′	γ
January ...	11·2	22·8	9·2	8·7	11·1	2·3	23·2	52·5	32·9	4·64	0·92	11·5	2·16	0·66	8·9	11·30	1·71	18·0
February ...	18·4	30·4	17·2	11·7	22·9	5·4	21·0	63·3	73·3	6·62	1·09	15·0	4·77	0·63	10·8	13·47	2·55	16·6
March ...	34·4	39·0	16·0	36·4	38·4	12·3	42·1	53·6	31·2	8·49	1·80	29·1	8·33	2·03	31·7	11·93	2·10	33·5
April ...	42·7	46·2	21·4	40·7	41·0	15·5	52·9	55·8	37·8	9·81	2·61	43·8	9·15	2·33	39·1	10·83	2·91	53·5
May ...	46·8	52·0	25·8	40·9	49·3	18·1	65·5	64·1	54·8	10·75	2·60	47·5	10·25	2·42	41·4	13·63	3·87	67·6
June ...	51·5	53·6	24·6	39·3	53·8	19·0	67·7	58·4	54·6	10·90	3·06	53·5	10·87	2·48	41·7	11·15	4·00	72·2
July ...	49·1	54·0	23·7	43·4	54·4	20·4	56·7	46·5	45·7	11·21	2·82	49·7	11·25	2·58	43·1	10·84	3·33	59·3
August ...	41·7	50·8	26·0	40·5	55·4	24·2	62·9	50·4	49·1	10·44	2·10	39·3	11·11	2·34	39·5	10·63	3·13	57·6
September ...	40·5	41·8	34·1	38·1	38·8	13·4	77·0	51·7	92·6	9·04	2·45	37·0	8·51	2·31	37·3	13·19	4·97	67·2
October ...	34·4	39·6	42·1	34·4	36·3	11·9	61·7	90·7	131·5	8·92	2·34	31·3	7·88	1·92	29·2	18·65	3·86	62·4
November ...	24·0	33·6	23·5	19·4	19·0	8·1	40·2	62·4	58·9	7·58	1·67	22·4	4·59	0·98	16·4	12·83	3·29	38·6
December ...	17·8	28·4	17·2	9·6	14·2	4·0	46·4	46·1	45·1	6·14	1·18	16·0	3·11	0·61	8·3	10·83	2·57	34·9
Year ...	31·3	34·6	18·8	28·0	34·0	11·6	41·7	47·6	51·3	7·33	1·57	29·1	7·27	1·63	27·4	10·56	2·46	38·9
Winter ...	17·6	28·2	15·4	11·1	15·3	4·1	26·5	52·8	43·2	6·17	1·10	14·5	3·34	0·60	9·0	11·29	1·96	23·7
Equinox ...	36·6	39·1	23·8	36·0	38·2	12·0	47·5	57·0	67·0	8·25	2·16	32·5	8·44	2·10	33·6	12·57	3·10	46·2
Summer ...	46·6	52·2	24·7	39·9	53·2	19·9	60·6	49·0	46·1	10·71	2·58	46·9	10·76	2·40	40·3	10·35	3·25	60·8

NON-CYCLIC CHANGE (24h.—0h.).

336. Eskdalemuir. 1931.

Month.	All Days.			Quiet Days.			Disturbed Days.		
	N.	W.	V.	N.	W.	V.	N.	W.	V.
	γ	γ	γ	γ	γ	γ	γ	γ	γ
January ...	+0·7	−0·5	+0·5	+1·8	+1·6	+2·2	− 8·2	+ 0·6	− 4·2
February ...	−0·3	+0·2	−0·2	+2·4	+1·8	−2·0	− 5·0	−10·8	−13·4
March ...	+0·3	+0·3	−0·5	+2·4	+2·4	−0·8	− 2·2	+ 3·6	− 2·2
April ...	−0·2	−0·2	+0·1	+0·4	−2·6	−1·2	−10·2	− 3·0	+ 1·0
May ...	−0·5	0·0	+0·2	+5·2	+1·4	−1·6	− 3·6	− 0·2	− 1·4
June ...	+0·4	−0·4	−0·3	+2·8	+4·6	−1·8	−13·8	+ 4·0	− 6·4
July ...	0·0	−0·2	+0·4	+2·0	+2·4	−0·2	− 2·0	− 2·4	− 7·4
August ...	+0·1	−0·3	+0·6	+5·6	+2·0	+1·8	− 8·0	+ 2·0	+ 4·0
September ...	+0·3	−1·2	−1·5	+4·8	−0·6	+1·4	−10·4	+ 8·2	+ 1·0
October ...	−0·9	+0·9	+1·3	+2·0	−0·6	+1·4	−15·8	−15·6	−27·2
November ...	0·0	0·0	−1·0	−1·2	+6·0	+6·0	− 6·4	− 1·8	−11·4
December ...	−0·7	−0·7	+0·5	+1·0	−0·2	−0·4	+ 1·2	− 4·8	− 0·2
Year, 1931 ...	—	—	—	—	—	—	—	—	—

MEAN VALUE OF THE SQUARES OF THE ABSOLUTE DAILY RANGES.

(Unit, 100 γ^2.)

337. Eskdalemuir. 1931.

Month.	R_N^2	R_W^2	R_V^2	$R_N^2 + R_W^2$	$R_N^2 + R_W^2 + R_V^2$	Mean Character Figure.
January ...	30	51	10	81	91	0·58
February ...	48	71	36	119	156	0·61
March ...	49	61	11	109	120	0·71
April ...	48	46	11	93	104	0·30
May ...	61	56	21	117	138	0·65
June ...	76	70	21	146	167	0·77
July ...	69	55	17	124	141	0·65
August ...	74	68	24	141	165	0·71
September ...	89	85	60	175	235	0·90
October ...	206	162	135	368	502	0·94
November ...	87	86	30	173	203	0·70
December ...	77	72	17	149	166	0·65
Year, 1931 ...	76	74	33	150	182	0·68

MEAN MONTHLY AND ANNUAL VALUES OF TERRESTRIAL MAGNETIC ELEMENTS.

(All days except those noted in monthly tables.)

338. Eskdalemuir. 1931.

Month.	North.	West.	Vertical.	Total.	Declination. (West).		Inclination. (North).		Horizontal. Force.
	γ	γ	γ	γ	°	′	°	′	γ
January ...	16048	4197	44935	47899	14	39·3	69	44·3	16588
February ...	16049	4194	44930	47895	14	38·8	69	44·2	16588
March ...	16049	4192	44910	47875	14	38·2	69	43·7	16588
April ...	16053	4187	44897	47864	14	37·2	69	43·2	16590
May... ...	16057	4183	44888	47856	14	36·1	69	42·8	16593
June ...	16057	4180	44876	47846	14	35·5	69	42·5	16593
July... ...	16055	4175	44875	47843	14	34·5	69	42·7	16589
August ...	16051	4169	44892	47858	14	33·5	69	43·6	16583
September ...	16047	4163	44906	47868	14	32·6	69	44·3	16578
October ...	16040	4157	44908	47868	14	31·8	69	44·9	16570
November ...	16042	4150	44880	47841	14	30·4	69	44·1	16570
December ...	16037	4145	44881	47840	14	29·5	69	44·6	16564
Year, 1931 ...	16049	4174	44898	47863	14	34·8	69	43·7	16583

Values of a_n, b_n in the series $\Sigma\ (a_n \cos 15nt^\circ + b_n \sin 15nt^\circ)$, t being reckoned in hours from midnight G.M.T.

(Longitude of Eskdalemuir Observatory, 3° 12′ W.)

339. Eskdalemuir. **1931.**

Month and Season.	North Component.								West Component.								Vertical Component.							
	a_1.	b_1.	a_2.	b_2.	a_3.	b_3.	a_4.	b_4.	a_1.	b_1.	a_2.	b_2.	a_3.	b_3.	a_4.	b_4.	a_1.	b_1.	a_2.	b_2.	a_3.	b_3.	a_4.	b_4.
	All Days.																							
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
Jan. ...	+0·7	+1·6	−3·1	−0·7	+0·3	−1·2	+0·2	+0·9	−8·9	+0·1	+0·5	+1·9	−0·9	+0·4	+0·7	+0·5	+0·5	−4·5	−0·3	+0·1	0·0	−0·1	0·0	−0·5
Feb. ...	+4·7	+1·3	−3·9	−1·4	+1·9	−1·5	−0·1	+1·1	−9·7	−5·3	0·0	+5·0	−0·7	−1·2	+0·8	+1·7	+1·1	−7·4	−2·9	−0·9	−0·5	+0·7	−0·5	−0·6
Mar. ...	+12·5	+0·2	−8·0	−1·1	+3·7	−1·6	−0·6	+0·5	−8·1	−9·0	+2·9	+8·1	−2·2	−4·2	+0·9	+1·7	+1·5	−4·9	−3·9	−1·6	+1·2	+0·4	−1·3	−0·8
Apr. ...	+16·7	−3·0	−9·3	+0·9	+3·8	−1·3	+0·1	+0·9	−5·1	−14·2	+3·8	+9·2	−1·5	−3·7	+1·0	+1·4	+4·5	−3·4	−5·2	−2·3	+1·2	+0·7	−0·6	−0·1
May ...	+13·6	−7·5	−9·9	+2·2	+1·8	0·0	+0·2	+0·6	−6·8	−16·7	+6·0	+9·7	−3·5	−0·5	+0·4	+0·8	+5·7	−6·7	−5·3	−1·1	+1·7	0·0	−0·4	+0·9
June ...	+15·9	−8·7	−10·2	+1·7	+0·5	0·0	+0·8	+1·6	−5·8	−20·9	+2·9	+9·4	−2·9	−1·5	+0·6	0·0	+3·9	−6·8	−6·2	−2·3	+0·6	−0·1	−0·6	+0·3
July ...	+16·6	−7·3	−10·5	+2·0	+1·5	−1·7	−0·5	+0·6	−6·1	−19·3	+4·7	+9·3	−2·2	−3·3	−0·1	+0·5	+4·4	−5·3	−6·3	−1·3	+0·6	+0·5	−0·4	−0·7
Aug. ...	+14·2	−6·3	−7·3	+1·9	+1·1	−1·9	−0·3	+1·1	−9·6	−14·5	+5·8	+8·6	−3·2	−3·9	+1·0	+1·7	+2·3	−8·6	−6·5	−0·8	+1·9	+0·4	−1·3	−0·4
Sept. ...	+15·5	−3·6	−7·4	+1·4	+1·6	−3·0	+0·9	+0·9	−11·0	−9·1	+5·2	+8·6	−2·2	−3·8	+1·7	+0·5	−3·4	−12·7	−5·9	−4·6	+2·1	−1·1	−0·7	+0·1
Oct. ...	+12·4	−1·1	−7·0	+1·1	+3·5	−3·2	0·0	+0·5	−11·7	−0·2	+3·0	+9·8	−0·6	−4·5	+1·9	+0·7	−8·1	−15·5	−7·1	−0·5	+1·1	+1·3	−1·2	0·0
Nov. ...	+7·9	+0·9	−6·1	−1·9	+1·7	−2·4	+0·3	+0·4	−9·8	+2·5	+1·4	+6·8	−0·9	−1·8	+1·4	+1·7	−4·0	−9·9	−3·2	+0·3	+0·5	+0·1	−1·0	0·0
Dec. ...	+3·8	+1·5	−3·9	−2·9	+0·9	−1·5	−0·3	+1·0	−10·2	+2·6	−1·2	+4·9	−0·1	+1·1	+1·5	+1·1	−0·8	−8·4	−2·4	−0·6	+0·2	−0·3	−0·4	−0·2
Year ...	+11·2	−2·7	−7·2	+0·3	+1·9	−1·6	+0·1	+0·8	−8·6	−8·7	+2·9	+7·6	−1·7	−2·3	+1·0	+1·0	+0·6	−7·8	−4·6	−1·3	+0·9	+0·2	−0·7	−0·2
Winter...	+4·3	+1·3	−4·2	−1·7	+1·2	−1·7	0·0	+0·8	−9·7	0·0	−0·2	+4·6	−0·7	−0·4	+1·1	+1·2	−0·8	−7·5	−2·2	−0·3	0·0	+0·1	−0·5	−0·3
Equinox.	+14·3	−1·9	−7·9	+0·5	+3·2	−2·3	+0·1	+0·7	−9·0	−8·1	+3·7	+8·9	−1·6	−4·0	+1·4	+1·1	−1·3	−9·1	−5·5	−2·3	+1·4	+0·3	−1·0	−0·2
Summer	+15·1	−7·5	−9·5	+1·9	+1·2	−0·9	+0·1	+1·0	−7·1	−17·8	+4·9	+9·3	−3·0	−2·3	+0·5	+0·7	+4·0	−6·8	−6·1	−1·4	+1·2	+0·2	−0·7	0·0
	Quiet Days.																							
Year ...	+10·1	−2·0	−6·4	−0·3	+1·9	−1·5	−0·2	+0·6	−4·0	−9·5	+3·0	+6·7	−2·7	−2·5	+0·8	+0·9	+2·8	−1·2	−3·2	−0·1	+1·2	+0·2	−0·6	−0·2
Winter...	+2·1	+0·1	−3·2	−1·7	+1·0	−0·8	−0·1	+0·5	−4·7	−2·0	0·0	+2·9	−1·2	−0·9	+0·3	+0·8	+0·9	−1·2	−0·7	+0·5	+0·1	+0·2	−0·2	−0·1
Equinox.	+13·9	−0·6	−7·7	−1·0	+3·0	−2·1	−0·4	+1·0	−3·7	−9·0	+2·9	+8·1	−3·2	−3·7	+1·6	+1·3	+2·0	−1·2	−3·3	−0·5	+1·7	+0·4	−1·1	−0·2
Summer	+14·3	−5·4	−8·3	+1·9	+1·7	−1·6	0·0	+0·5	−3·7	−17·4	+5·9	+9·1	−3·8	−2·9	+0·6	+0·6	+5·6	−1·1	−5·8	−0·3	+1·7	−0·1	−0·4	−0·4
	Disturbed Days.																							
Year ...	+14·1	−4·8	−9·6	+1·1	+2·4	−2·0	−0·5	+1·3	−14·8	−5·1	+1·7	+10·1	−0·5	−2·2	+1·5	+0·7	−5·5	−21·9	−8·0	−2·6	+1·2	+1·1	−1·0	+0·4
Winter...	+7·5	+1·4	−6·4	−2·3	+1·3	−1·7	−0·1	+1·4	−16·3	+5·1	−0·2	+7·6	+1·8	−0·8	+2·6	+1·7	−4·4	−20·7	−5·7	−0·7	−0·5	+1·1	−0·8	−0·3
Equinox.	+17·1	−5·3	−9·9	+2·9	+4·3	−3·6	−0·2	+0·8	−17·4	−4·1	+3·2	+13·2	−0·5	−4·8	+0·4	+0·8	−11·2	−25·2	−11·5	−3·8	+2·4	+1·6	−0·8	+0·1
Summer	+17·7	−10·5	−12·5	+2·6	+1·7	−0·7	−1·3	+1·9	−10·5	−16·2	+2·2	+9·5	−2·8	−2·6	+1·5	−0·2	−0·9	−19·8	−6·8	−3·4	+1·7	+0·6	−1·4	+1·5

HARMONIC COMPONENTS OF THE DIURNAL INEQUALITY OF MAGNETIC FORCE.

Values of c_n, α_n in the series $\Sigma c_n \sin\ (15n\mathrm{T}^\circ + \alpha_n)$, T being Mean Local Time reckoned in hours from midnight.

340. Eskdalemuir. **1931.**

Month and Season.	North Component.								West Component.								Vertical Component.							
	c_1.	α_1.	c_2.	α_2.	c_3.	α_3.	c_4.	α_4.	c_1.	α_1.	c_2.	α_2.	c_3.	α_3.	c_4.	α_4.	c_1.	α_1.	c_2.	α_2.	c_3.	α_3.	c_4.	α_4.
	All Days.																							
	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°	γ	°
Jan. ...	1·7	26	3·1	264	1·3	176	0·9	28	8·9	274	1·9	21	1·0	302	0·8	67	4·5	177	0·3	304	0·1	198	0·5	196
Feb. ...	4·9	78	4·2	257	2·5	138	1·1	7	11·1	245	5·0	6	1·4	219	1·9	39	7·5	175	3·0	258	0·9	333	0·8	231
Mar. ...	12·5	92	8·1	268	4·0	123	0·8	323	12·1	225	8·6	26	4·8	217	2·0	40	5·1	166	4·3	254	1·2	79	1·5	253
Apr. ...	16·9	103	9·3	282	4·1	119	0·9	16	15·1	203	9·9	29	4·0	211	1·8	49	5·7	130	5·7	253	1·4	70	0·6	275
May ...	15·5	113	10·1	289	1·8	99	0·6	30	18·0	205	11·4	38	3·6	273	0·9	43	8·7	143	5·5	265	1·7	100	1·0	348
June ...	18·1	122	10·4	286	0·5	103	1·8	39	21·7	199	9·9	24	3·3	252	0·6	103	7·8	154	6·6	256	0·7	107	0·7	313
July ...	18·1	117	10·6	287	2·3	148	0·8	337	20·2	201	10·5	33	4·0	223	0·5	359	6·9	144	6·4	261	0·8	59	0·8	225
Aug. ...	15·6	117	7·6	291	2·2	160	1·2	0	17·4	217	10·4	40	5·0	228	1·9	45	8·9	168	6·6	269	1·9	87	1·4	264
Sept. ...	16·0	106	7·5	287	3·4	161	1·3	57	14·3	234	10·0	37	4·3	220	1·8	86	13·1	198	7·5	238	2·3	127	0·7	293
Oct. ...	12·5	98	7·1	285	4·8	142	0·5	17	11·7	299	10·2	23	4·5	197	2·0	81	17·5	201	7·1	272	1·7	50	1·2	283
Nov. ...	8·0	87	6·3	259	2·9	155	0·5	56	10·1	287	6·9	18	2·0	215	2·2	53	10·6	205	3·2	282	0·5	85	1·0	285
Dec. ...	4·1	72	4·9	240	1·8	158	1·1	354	10·5	287	5·1	353	1·1	5	1·8	67	8·4	189	2·4	263	0·3	150	0·5	259
Year ...	11·5	107	7·2	279	2·5	140	0·8	19	12·2	228	8·1	27	2·8	227	1·4	57	7·9	179	4·8	261	0·9	86	0·7	269
Winter	4·5	76	4·6	255	2·1	153	0·8	15	9·7	201	4·6	4	0·7	249	1·6	54	7·6	189	2·2	269	0·1	30	0·6	248
Equinox	14·4	101	7·9	280	3·9	135	0·7	20	12·1	231	9·7	29	4·3	211	1·8	64	9·2	192	6·0	254	1·4	86	1·0	272
Summer	16·8	119	9·7	288	1·5	137	1·0	16	19·2	205	10·5	34	3·8	241	0·9	47	7·9	153	6·3	264	1·2	90	0·7	285
	Quiet Days.																							
Year	10·3	104	6·4	274	2·4	138	0·7	358	10·3	206	7·3	31	3·7	237	1·2	55	3·0	116	3·2	275	1·2	91	0·6	260
Winter...	2·1	90	3·6	248	1·3	137	0·5	4	5·1	250	2·9	7	1·6	242	0·8	31	1·5	147	0·9	315	0·2	49	0·3	249
Equinox	13·9	96	7·8	269	3·6	135	1·1	349	9·8	205	8·7	26	4·9	230	2·1	64	2·3	125	3·3	268	1·8	85	1·1	275
Summer	15·3	114	8·5	289	2·3	144	0·5	15	17·8	195	10·8	40	4·7	242	0·8	56	5·7	104	5·8	273	1·7	102	0·6	240
	Disturbed Days.																							
Year ...	14·9	102	9·6	283	3·1	139	1·4	354	15·6	254	10·2	16	2·3	202	1·7	77	22·6	197	8·4	258	1·6	57	1·1	304
Winter...	7·6	83	6·8	257	2·1	153	1·4	16	17·1	291	7·6	5	1·9	76	3·1	70	21·1	195	5·7	269	1·3	343	0·9	259
Equinox	17·9	110	10·3	293	5·6	139	0·8	0	17·9	260	13·6	20	4·9	196	0·9	42	27·6	207	12·1	258	2·8	66	0·7	289
Summer	20·6	124	12·8	288	1·8	122	2·3	339	19·3	216	9·8	19	3·9	237	1·6	112	19·8	186	7·6	250	1·8	81	2·1	329

341. MEAN VALUES, FOR THE YEARS SPECIFIED, OF THE MAGNETIC ELEMENTS AT OBSERVATORIES IN COMMUNICATION WITH THE ROYAL OBSERVATORY, GREENWICH.

Place.	Latitude.	Longitude.	1931. Declination.	1931. Inclination.	1931. Horizontal Force.	1931. Vertical Force.	1930. Declination.	1930. Inclination.	1930. Horizontal Force.	1930. Vertical Force.	1929. Declination.	1929. Inclination.	1929. Horizontal Force.	1929. Vertical Force.
	N. ° ′	° ′	° ′	N. ° ′	γ	γ	° ′	N. ° ′	γ	γ	° ′	N. ° ′	γ	γ
Sodankylä, Finland ...	67 22	26 39E.	2 45·0E.	76 5·0	12188	49220	2 35·5E.	76 2·4	12228	49216	2 27·4E.	75 59·8	12273	49219
Lerwick, Shetland Islands ...	60 8	1 11W.	13 59·6W.	72 42·3	14517	46623	14 11·2W.	72 41·6	14528	46625	14 23·6W.	72 40·3	14556	46651
Pavlovsk, Leningrad, U.S.S.R.	59 41	30 29E.									3 57·4E.	71 42·3	15586	47145
Lovö (Stockholm) Sweden ...	59 21	17 50E.									3 8·3W.	71 24·9	15584	46344
Sitka, Alaska	57 3	135 20W.	30 13·1E.	74 23·5	15454	55194	30 15·6E.	74 22·8	15448	55255	30 17·7E.	74 22·7	15465	55307
†Swerdlovsk, U.S.S.R. ...	56 50	60 38E.									10 57·2E.	72 20·3	16285	51145
Copenhagen (in Rude Skov), Denmark.	55 51	12 27E.	5 50·4W.	69 20·5	16879	44767	6 0·4W.	69 19·0	16893	44747	6 11·0W.	69 16·2	16924	44718
Kasan (Sajmistsche), U.S.S.R.	55 50	48 51E.	9 7·3E.	70 39·1	16953	48279	9 6·8E.	70 36·3	16982	48238	9 5·2E.	70 31·6	17033	48168
Eskdalemuir, Scotland ...	55 19	3 12W.	14 34·8W.	69 43·7	16583	44898	14 47·1W.	69 43·2	16585	44881	14 58·9W.	69 41·9	16603	44878
Meanook, Alberta, Canada ...	54 37	113 21W.	26 33·3E.	*77 54·9	12758	*59587	26 39·2E.	*77 56·1	12755	*59675	26 42·9E.	*77 55·1	12781	*59709
Stonyhurst, Lancs., England	53 51	2 28W.	13 39·4W.	*68 47·3	17181	*44271	13 51·1W.	*68 47·8	17190	*44311	14 3·1W.	*68 46·2	17201	*44275
†Irkutsk (Zouy), Siberia ...	52 28	104 2E.									0 20·2E.	71 19·2	19038	56310
Seddin, Prussia	52 17	13 1E.	5 28·9W.	66 49·8	18450	43108	5 38·6W.	66 48·3	18456	43072	5 49·1W.	66 45·6	18480	43034
Swider, Poland	52 7	21 15E.					1 57·3W.	67 1·1	18476	43565	2 6·3W.	66 57·6	18507	43517
De Bilt, Utrecht, Holland ...	52 6	5 11E.	9 15·7W.	67 0·8	18278	43089	9 26·3W.	67 0·4	18282	43084	9 37·3W.	66 58·6	18300	43063
Valentia, Cahirciveen, Ireland	51 56	10 15W.	*17 16·8W.	*67 58·7	*17815	*44048	*17 27·6W.	*67 59·8	*17813	*44081	*17 37·3W.	*67 59·6	*17821	*44094
Bochum, Prussia	51 29	7 14E.	8 23·8W.	...	...	...	*8 35·2W.	...	...	...	*8 46·0W.	...	...	...
Abinger, Surrey, England ...	51 11	0 23W.	12 13·7W.	66 38·1	18544	42923	12 24·6W.	66 38·2	18542	42924	12 35·8W.	66 37·2	18555	42918
Uccle, Belgium	50 48	4 21E.					9 54·6W.	...	...	...	10 5·4W.	...	*19234	...
Val Joyeux, near Paris, France	48 49	2 1E.	10 49·0W.	64 43·4	19636	41584	10 59·3W.	64 42·0	19631	41529	11 10·1W.	64 41·0	19641	41519
Maisach, Bavaria	48 12	11 15E.	*6 12·2W.	*63 41·1	*20288	*41022	*6 20·2W.	*63 39·7	*20279	*40963	*6 29·9W.	*63 35·8	*20292	*40872
Vienna, (Auhof)	48 12	16 14E.	*3 53·2W.	*63 30·5	*20480	*41092	...	...	...	...	...	...	...	...
Stará Ďala, Czecho-Slovakia	47 53	18 11E.					3 18·8W.	...	...	...	3 27·4W.	...	...	...
Nantes, France	47 15	1 34W.	11 54·6W.	63 43·3	20241	40995	12 4·6W.	63 43·3	20226	40965	12 13·5W.	63 43·1	20222	40950
Agincourt, Ontario, Canada...	43 47	79 16W.	7 31·9W.	74 46·3	15520	57010	7 28·1W.	74 46·4	15544	57106	7 24·0W.	74 45·4	15586	57196
Karsani, U.S.S.R.	41 50	44 42E.									4 19·7E.	58 19·0	24627	39901
Ebro, Tortosa, Spain ...	40 49	0 30E.	10 11·7W.	57 24·1	23415	36616	10 20·1W.	57 25·3	23401	36621	10 28·0W.	57 25·8	23383	36605
Coimbra, Portugal	40 12	8 25W.	*13 45·5W.	*57 52·2	23196	36931	*13 55·3W.	*57 56·4	*23179	*37001	13 59·7W.	*57 57·9	23176	*37026
Cheltenham, Maryland, U.S.A.	38 44	76 50W.	7 0·2W.	71 9·3	18539	54317	6 56·0W.	71 8·4	18583	54403	6 52·0W.	71 6·5	18646	54485
†San Miguel, Azores Is. ...	37 46	25 39W.	18 23·1W.	*59 41·1	*23351	*39936	18 29·4W.	*59 46·6	*23310	*40004	18 35·0W.	*59 48·0	*23309	*40046
San Fernando, Spain ...	36 28	6 12W.	12 25·9W.	*53 27·9	25106	*33885	12 32·8W.	*53 29·9	25072	*33881	12 40·7W.	*53 29·8	25035	*33829
Kakioka, Japan	36 14	140 11E.					5 42·4W.	49 27·8	29713	34746	5 41·9W.	49 26·0	29704	34698
Tsingtao, China	36 4	120 19E.	4 32·1W.	52 5·1	30880	39646	4 32·8W.	52 6·8	30868	39673	4 33·0W.	52 6·6	30870	39669
Tucson, Arizona, U.S.A. ...	32 15	110 50W.	13 49·5E.	59 37·5	26399	45038	13 47·7E.	59 37·0	26432	45081	13 45·7E.	59 34·7	26491	45114
Lukiapang, Shanghai, China	31 19	121 2E.	*3 37·0E.	*45 22·5	*33313	*33751	*3 37·4W.	*45 25·1	*33264	*33753	*3 37·2W.	*45 24·9	*33278	*33763
Dehra Dun, United Provinces, India.	30 19	78 3E.	1 8·6E.	45 35·9	33001	33698	1 12·0E.	45 34·5	32963	33631	1 15·5E.	45 33·9	32950	33606
Helwan, Egypt	29 52	31 21E.	*0 10·5W.	*41 45·6	*30126	*26898	*0 14·7W.	*41 43·8	*30078	*26827	*0 19·3W.	*41 39·1	*30067	*26743
Hong Kong (Au Tau), China	22 27	114 3E.	*0 43·3W.	*30 34·4	*37522	*22164	*0 43·6W.	*30 37·3	*37485	*22187	*0 43·5W.	*30 38·7	*37481	*22206
Honolulu, Hawaii	21 19	158 4W.	10 4·4E.	39 24·4	28551	23458	10 4·3E.	39 29·2	28542	23516	10 4·6E.	39 30·2	28569	23553
Teoloyucan, Mexico	19 45	99 11W.	*9 27·2E.	*46 57·7	*31162	*33375	9 25·4E.	46 54·1	31202	33342	9 23·5E.	46 47·6	31301	33324
Alibag, Bombay, India ...	18 38	72 52E.	0 10·5W.	25 30·3	37323	17806	0 8·0W.	25 30·6	37253	17777	*0 6·1W.	*25 29·6	*37220	*17732
San Juan, Porto Rico ...	18 23	66 7W.	4 58·8W.	52 30·2	27451	35780	4 50·5W.	52 29·2	27493	35813	4 41·9W.	52 24·8	27551	35795
Antipolo, Philippine Is. ...	14 36	121 10E.	*0 27·3E.	*15 48·2	*38270	*10832	*0 26·7E.	*15 47·2	*38244	*10812	*0 26·5E.	*15 47·9	*38231	*10817
Batavia (Kuyper), Java ...	S. 6 2	106 44E.	*0 57·8E.	S. *32 19·8	*36862	*23330	*0 55 E.	S. *32 18	*36820	*23280	*0 54·0E.	S. *32 16·6	*36815	*23252
Huancayo, Peru	12 3	75 20W.					7 36·5E.	N. 1 42·7	29614	00885	*7 42·3E.	N. *1 33·9	*29675	*00811
Apia, Samoa	13 48	171 46W.	10 35·2E.	S. *30 9·3	35171	*20434	10 34·2E.	S. 30 7·9	35196	20428	10 33·5E.	S. *30 6·7	35209	*20418
Mauritius	20 6	57 33E.	12 17·2W.	52 38·3	22673	29696	12 5·5W.	52 39·6	22697	29750	11 53·9W.	52 45·0	22732	29893
La Quiaca, Jujuy, Argentina	22 6	65 36W.	4 31·7E.	12 22·8	26256	05763	4 40·7E.	12 23·8	26266	05774	4 49·0E.	12 24·0	26295	05781
Vassouras, Brazil	22 24	43 39W.									...	...	...	...
Watheroo, West Australia ...	30 19	115 52E.					4 8·0W.	64 17·7	24633	51174	4 12·1W.	64 15·5	24645	51115
Pilar, Cordova, Argentina ...	31 40	63 53W.	6 18·9E.	25 51·2	24661	11950	6 26·8E.	25 50·6	24695	11961	6 34·4E.	25 48·2	24763	11973
Toolangi, Victoria, Australia	37 32	145 28E.	*8 24·5E.	*67 51·1	*22890	*56232	*8 21·6E.	*67 52·4	*22851	*56198	8 17·5E.	67 50·3	22883	56183
Christchurch, New Zealand ...	43 32	172 37E.					17 48·3E.	68 18·3	22108	55570	17 42·4E.	68 17·6	22123	55575
Christchurch (Amberley), N.Z.	43 10	172 43E.					17 51·0E.	67 58·5	22350	55247				

NOTES.—*Results derived from absolute observations only. † A local anomaly is known to exist at the site of the Observatory.

Sitka.—A change of magnetometer was made in 1929 which affected declination observations. The systematic difference is —1′·2 E. Results for 1930 are estimated from 8 months' observation, January-August.

Abinger.—The values of Inclination and Vertical Force depend upon direct measurement of the vertical component of the earth's field, with a coil-magnetometer.

Apia, Samoa.—For 1929 the results in Inclination and Vertical Force are for six months only. For 1930 the results relate approximately to the first half of the year.

342. REVISED VALUES FOR EARLIER YEARS.

No revised values have been received since the last publication of this table.

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M.O. 350
(Cahirciveen)

Air Ministry

METEOROLOGICAL OFFICE

THE
OBSERVATORIES' YEAR BOOK
1931

Comprising the meteorological and geophysical results obtained from autographic records and eye observations at the observatories at Lerwick, Aberdeen, Eskdalemuir, Cahirciveen (Valentia Observatory), and Richmond (Kew Observatory), and the results of soundings of the upper atmosphere by means of registering balloons.

CAHIRCIVEEN (VALENTIA OBSERVATORY)

Published by the authority of the
METEOROLOGICAL COMMITTEE

LONDON
PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE

1933

CAHIRCIVEEN (VALENTIA OBSERVATORY).

Latitude	51° 56′ N.
Longitude	10° 15′ W.
G.M.T. of Local Mean Noon	12h 41m.

Heights in metres above Sea Level.

Barometer	13·7
Rain-gauge	9·1
Robinson Cup Anemograph	26
Dines Tube Anemograph	30

Heights in metres above Ground.

Thermometer Bulbs	1·3
Sunshine Recorder	12·8
Robinson Cup Anemograph	14
Dines Tube Anemograph	13
Beckley Rain-gauge Rim	0·5

INTRODUCTION.

SITE.

Valentia Observatory derives its name from the fact that it was originally established on Valentia Island in 1867. It was removed to the mainland in March, 1892, and now lies in a direct line between the old site on Valentia Island and the town of Cahirciveen, about 2½ miles (4 km.) north-east from the former, and three-quarters of a mile (1 km.) south-west of the latter. It is quite remote from any other buildings. The general character of the country surrounding the Observatory is hilly. The eastern bank of the Cahir river is about 150 metres to the westward, and in that direction there is no very high ground between the Observatory and the open sea, some 3½ miles (6 km.) away. To the north-west, however, are hills varying in height from 400 (120 m.) to 900 feet (275 m.), the highest being less than 3 miles (5 km.) distant. These are only separated by a narrow gully running in a N N W direction from other hills equally high, which stretch away to the northward: the nearest of these is but little more than a mile (1½ km.) from the Observatory. Beyond the town of Cahirciveen to the north-east the river opens out considerably, and the country in this direction becomes an open boggy basin, rising by only a gentle gradient. Southward of this, however, it soon rises again, and at about a mile south-east of the Observatory it culminates in the hill Bentee upwards of 1,245 feet (380 m.) in height. Still further south it opens out once more to a distance of nearly 5 miles (8 km.) from the Observatory, where there is a range of hills running east and west, and varying in height from 400 (120 m.) to 1,300 feet (400 m.). To the south-west there is an opening to the sea, between Valentia Island and the mainland; and the circle of hills is completed by those on the island itself, the highest of which is about 800 feet (240 m.) high, and bears about west-south-west from the Observatory. Photographs of the Observatory building, together with a site plan, showing the disposition of the various instruments were reproduced in the introduction to the 1928 volume.

METEOROLOGY.

The elements dealt with in the following tables are: atmospheric pressure, air temperature, humidity, rainfall, sunshine, wind speed and direction, earth temperature, minimum temperature on the grass, together with a diary of cloud visibility and weather.

Pressure and Temperature.—The photographic barograph and thermograph are installed in a room on the ground floor of the Observatory tower. The standard Fortin barometer, from which the control readings at 9h, 15h and 21h are taken, is mounted in the same room beside a window which faces the north-east. The stems of the dry and wet bulb thermometers pass out into the screen placed against the north wall of the tower. Close to the bulbs of these thermometers are the bulbs of the standard thermometers from which the control readings at 9h, 15h and 21h are taken.

Rainfall.—The Beckley rain-gauge and the 8-inch (20·3 cm.) check gauge are placed in a railed-off enclosure about 40 metres to the north of the tower. The Beckley gauge was dismantled from October 9th to December 18th. During this period records from the Dines tilting-bucket gauge were used, adjustments to give totals in agreement with the check gauge being made in the same way as for the Beckley records (see General Introduction, p. 11).

Sunshine.—The recorder is cemented to a wooden rail on the roof of the tower. The exposure of the sunshine recorder is such that there is no appreciable loss of record due to obstructions in the months of May, June, July and August. During the remainder of the year the hill Bentee lying to the south-east cuts off early morning sunshine. The reduction in possible record, assuming that the recorder becomes sensitive to sunshine only when the sun is at an altitude of more than three degrees, is shown in the following table for the 1st and 15th of each month :—

Reduction in Possible Record in Tenths of an Hour.								
Month.	Jan.	Feb.	Mar.	Apr.	Sept.	Oct.	Nov.	Dec.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.
1st.	·5	·5	·7	·5	·3	·7	·5	·6
15th.	·6	·5	·7	·3	·5	·7	·5	·5

Wind, Speed and Direction.—Up to 1925 the measurements of Wind Speed and Direction as given in Tables 413-424, were obtained from the Robinson Cup Anemograph on the roof of the Observatory tower. Commencing with the 1926 values, measurements of Wind Speed and Direction published in the Observatories' Year Book are taken from the records of the Dines Pressure-tube Anemograph. This instrument stands in an open field, about 250 metres S E by E of the Observatory tower. The field slopes northwards and downwards to the river Cahir. About 1 mile ($1\frac{1}{2}$ km.) to the south-east is the highest point (1,245 feet) of the hill Bentee which extends for some little distance in a northerly and south-westerly direction. A description of the surrounding country has already been given.

In a few instances where records of the Pressure-tube Anemograph have been defective, the required values have been obtained from the records of the Cup Anemograph or of a new Pressure-tube Anemograph. Where the Cup Anemograph has been used a suitable adjustment of such values has been made in accordance with the table in the General Introduction showing the effect of exposure on the two instruments. Where the new Pressure-tube Anemograph has been used the mean hourly values as recorded by that instrument have been reduced by ·3 m/s which is approximately the average difference between the values on the two Pressure-tube Anemographs. Values thus obtained are entered as interpolated values.

Earth Temperature.—The thermometers are at depths of 30 cm. and 122 cm. below the grass covered surface of the ground. The site is well exposed. The thermometers are of the standard type described in the *Meteorological Observers' Handbook.*

Minimum Temperature on the Grass.—The grass minimum thermometer is of the type described in the General Introduction. It is exposed over short grass in the field enclosure. It is set at 18h and read at 7h on the succeeding day, the observation being entered to the day of reading.

Visibility.—Lists of the objects used for visibility observations and their distances and bearings from the point of observation are given in the following tables.

LANDWARDS VISIBILITY OBJECTS AT VALENTIA OBSERVATORY.

Indication letter of object.	Standard distance of object.	Actual distance of object.	Bearing of object in degrees from N.	Description of object.
	Metres.	Metres.		
A	25	25	350°	Gate near workshop.
B	50	50	345°	White post in fence of instrument enclosure.
C	100	100	125°	Hedge at S. end of vegetable garden.
D	200	200	330°	Notice board on beach.
E	500	500	360°	Hulk on shore.
F	1,000	1,100	50°	Parsonage.
G	2,000	1,910	55°	Wireless school.
Intermediate object	—	3,500	20°	Top of Castlequin Mountain.
h	4,000	—	—	No object available. (Top of Castlequin well visible.)
I	7,000	7,600	40°	Top of Knocknadober Mountain.
J	10,000	10,000	220°	Kilkeaveragh Mountain.
Intermediate object	—	17,000	55°	Drung Hill.
k	20,000	—	—	No object available. (Drung Hill well visible.)
l	30,000	—	—	No object available.
m	50,000	—	—	No object available.

SEAWARDS VISIBILITY OBJECTS AT VALENTIA OBSERVATORY.

Indication letter of object.	Standard distance of object.	Actual distance of object.	Bearing of object in degrees from N.	Description of object.
	Metres.	Metres.		
F	1,000	1,000	235°	Farmhouse on skyline.
G	2,000	2,200	265°	Laght Point.
H	4,000	3,760	280°	Black Rock.
I	7,000	6,500	250°	Ridge between two hills on Valentia.
J	10,000	10,000	220°	Kilkeaveragh mountain.
k	20,000	—	—	No object available.
Intermediate objects	— —	23,500 25,500	320° 325°	Mount Eagle. Croaghmarhin Mountain.
l	30,000	—	—	No object available. (Croaghmarhin well visible.)
m	50,000	—	—	No object available. (Croaghmarhin exceptionally visible.)

Two observations, one in a landwards direction, the other in a seawards direction, are made at each hour of observation. The position of the Observatory is such that a distinction between visibility landwards and seawards cannot be made when the range of visibility is less than 1,000 yards. Objects corresponding with the letters A to E have therefore been included in the table of landwards objects only. Kilkeaveragh Mountain is used as both a landwards and seawards object corresponding with J.

Entries of "l" and "m" for visibility in a landwards direction are made :—

(*a*) When Croaghmarhin Mountain (see table of seawards objects) is clearly visible and there is reason to believe that the range of visibility in a landwards direction is as good as, or nearly as good as, visibility seawards.

(*b*) When Croaghmarhin Mountain is invisible but there is reason to believe from the appearance of Drung Hill that the range of visibility landwards is greater than the range seawards and is sufficiently good to justify the entry made.

When the mountains used as objects at 3,500 metres and beyond are cloud capped the appropriate entries for the range of visibility are determined by the clearness or otherwise with which the lower parts of the mountains can be seen.

The Observatory is far removed from smoky industrial areas; the observations are therefore not much affected by smoke pollution of the atmosphere.

Notes on the Meteorological Summaries.

The Weather of 1931.—Mean values for the year as a whole did not differ exceptionally from normal. There were some outstanding features among the individual months however. November, with 310 mm. of rain (223 per cent. of normal), exceeds all previous records for the amount of rain recorded in a calendar month. Previous records for minimum sunshine in a calendar month were broken in December when only 14 hours (35 per cent. of normal and 6 per cent. of possible) were recorded.

December was an unusually mild month with temperature 1·8° A (3·3° F.) above normal and August a sunny month with 1·3 hours a day more sunshine than normal.

Pressure.—No change in the values used for reducing pressure at station level to pressure at mean sea level was made at Valentia Observatory by the introduction in 1928 of the revised scheme as set out in the General Introduction.

The mean pressure for the year was normal. Of the monthly mean pressures six were higher and six lower than normal. The departures ranged from an excess of fifteen millibars in December to a deficiency of eleven millibars in November.

Details of the Fourier analysis of the diurnal inequalities of pressure for the year are given in Table A, together with normal values referring to the period 1871–1915. The coefficients are given to the nearest ·001 mb. and the phase angles to the nearest 1° except for the third and fourth components in which case the values referring to the current year are taken to the nearest 5° only.

Temperature.—Mean temperature for the year 1931 was 0·38°A (0·68° F.) above normal. For the individual months December, with an excess of 1·82°A (3·28° F.) showed the greatest departure.

The harmonic analysis of the monthly and seasonal diurnal inequalities of temperature is given in Table B, together with normal values referring to the period 1871–1915. The coefficients are given to the nearest ·001° A and the phase angles to the nearest 1° except for the third and fourth components in which case the values referring to the current year are taken to the nearest 5° only.

Rainfall.—The total rainfall for the year was 1 per cent. above normal, the actual excess being 9 millimetres. The month with the highest rainfall was November, with 310 millimetres, this amount being 123 per cent. more than normal. The lowest monthly total was that for October, the 64 millimetres which fell during that month being 45 per cent. of the normal amount.

Bright Sunshine.—The total amount of bright sunshine for the year 1931 was about 14 per cent. less than the normal. Three months only had more than average sunshine, the greatest excess being about 27 per cent. for August. The most notable deficiency was for December the total sunshine for this month being 35 per cent. of normal.

Cloud and Weather.—The mean amount of cloud at all observation hours was 7·6. The most cloudy months were June and December, with mean cloud amount of 8·7. The month with least cloud was August with a mean of 6·6.

Visibility.—The observations of visibility in tables 429–440 refer to visibility in a landwards direction. The observations, when the range of visibility seawards differs from the range landwards, are shown in the following table :—

Date.		Hour.	Visibility Landwards	Visibility Seawards.
Jan.	12	9	l	k
,,	12	13	l	J
,,	14	18	k	l
,,	17	18	J	k
,,	21	13	J	k
Feb.	19	13	I	J
Mar.	4	9	J	k
,,	6	9	J	k
,,	25	13	J	k
,,	29	18	k	J
,,	30	7	J	k
April	10	21	l	H
May	13	7	J	k
June	2	7	G	H
,,	7	9	J	k
,,	11	18	J	k
,,	26	18	J	I
,,	28	9	h	J
July	3	7	F	G
,,	7	13	J	k
,,	17	13	J	k
,,	21	13	k	J
,,	21	15	k	J
,,	21	18	J	I
,,	21	21	F	E

Date.		Hour.	Visibility Landwards	Visibility Seawards.
July	24	21	G	H
,,	25	9	J	k
,,	29	15	h	I
,,	29	18	J	k
,,	29	21	J	k
,,	30	9	J	l
,,	31	13	J	k
Aug.	9	18	J	k
,,	16	15	J	k
,,	19	7	J	k
,,	20	18	J	k
Sept.	3	9	I	J
,,	14	18	I	H
,,	15	7	F	J
,,	18	18	I	G
,,	18	21	h	G
,,	25	15	J	k
,,	25	18	J	k
,,	25	21	I	J
Oct.	3	18	G	H
,,	4	18	h	I
,,	5	18	J	I
,,	12	7	I	J
,,	20	15	J	k

IDENTIFICATION NUMBERS OF INSTRUMENTS IN USE IN 1931.

Instrument	Number	Corrections
Standard Fortin Barometer ..	M.O. 463	
Standard Dry Bulb Thermometer	M.O. 1701	Corrections Nil.
Standard Wet Bulb Thermometer ..	M.O. 1702	Corrections: 255°—266° + ·2°; 267°—268° + ·1°; 269°—272° Nil.; 273° and above, — ·1°
Recording Beckley Rain-gauge ..	—	
Control Rain-gauge	M.O. 402	
Glass for Control Rain-gauge ..	M.O. 1611 and 1627	
Campbell Stokes Sunshine Recorder	M.O. 5	
Robinson Cup Anemograph	Beck 46	
Dines Tube Anemograph	—	
Grass Minimum Thermometer ..	M.O. 18136/29	Corrections: 2·0° F. — ·3° F.; 12·0° F. — ·2° F.; 32·0° F. Nil.; 52·0° F. Nil.; 72·0° F. Nil.
Earth Thermometer 1 ft.	M.O. 9	Corrections: 260° A + ·1°; 280° A and above, Nil.
Earth Thermometer 4 ft.	M.O. 24005	Corrections: 273° A Nil.; 278° A — ·1°A.; 283°A and above, Nil.

All thermometer corrections are applied before tabulation.

TABLE A.

Diurnal Variation of Barometric Pressure Fourier Coefficients.

Cahirciveen (Valentia Observatory), Longitude 10° 15′ W.

Values of c_n, α_n in the series $\Sigma c_n \sin (15nt^0 + \alpha_n)$, t being Local Mean Time reckoned in hours from midnight.

Month or Season.	c_1		α_1		c_2		α_2		c_3		α_3		c_4		α_4	
	1931	1871–1915	1931	1871–1915	1931	1871–1915	1931	1871–1915	1931	1871–1915	1931	1871–1915	1931	1871–1915	1931	1871–1915
	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°	mb.	mb.	°	°
January	·547	·098	72	174	·301	·319	165	153	·153	·157	15	351	·075	·071	235	207
February	·194	·122	207	203	·248	·344	146	148	·107	·119	350	343	·041	·043	100	95
March	·158	·114	132	149	·330	·352	146	149	·045	·048	310	340	·043	·038	15	51
April	·234	·098	169	191	·295	·310	149	149	·019	·032	160	181	·027	·035	25	15
May	·082	·172	232	178	·277	·277	142	147	·062	·074	165	166	·036	·014	345	350
June	·269	·192	201	200	·223	·255	155	146	·079	·075	155	160	·015	·002	190	11
July	·250	·242	159	183	·210	·251	150	143	·089	·079	160	163	·021	·013	10	16
August	·392	·237	199	190	·270	·281	153	145	·035	·052	170	161	·026	·034	15	350
September	·118	·195	203	203	·357	·346	156	153	·018	·005	270	49	·053	·044	5	10
October	·209	·194	179	199	·358	·335	157	161	·076	·073	355	1	·026	·013	35	69
November	·190	·071	256	179	·311	·347	160	161	·104	·133	35	5	·014	·035	50	167
December	·144	·167	144	186	·309	·311	144	160	·140	·162	355	357	·116	·075	185	196
Arithmetic Mean ..	·232	·159	..	..	·291	·311	..	..	·077	·084	..	..	·041	·035	..	..
Year	·136	·150	170	189	·285	·307	152	151	·030	·034	15	3	·007	·004	15	83
Winter	·098	·112	114	187	·290	·329	154	156	·122	·142	10	355	·040	·043	190	181
Equinox	·166	·142	169	190	·334	·335	152	153	·026	·014	330	308	·036	·030	20	29
Summer	·232	·209	192	188	·244	·266	150	145	·066	·070	165	163	·016	·015	360	355

TABLE B.

Diurnal Variation of Temperature Fourier Coefficients.

Cahirciveen (Valentia Observatory), Longitude 10° 15′ W.

Values of c_n, α_n in the series $\Sigma c_n \sin (15nt^0 + \alpha_n)$, t being Local Mean Time reckoned in hours from midnight.

Month or Season.	c_1		α_1		c_2		α_2		c_3		α_3		c_4		α_4	
	1931	1871–1915	1931	1871–1915	1931	1871–1915	1931	1871–1915	1931	1871–1915	1931	1871–1915	1931	1871–1915	1931	1871–1915
	°A	°A	°	°	°A	°A	°	°	°A	°A	°	°	°A	°A	°	°
January	·479	·496	217	239	·287	·269	52	52	·125	·114	225	226	·016	·025	355	43
February	·697	·820	235	235	·219	·377	41	53	·086	·085	240	231	·021	·032	255	203
March	1·126	1·351	228	234	·451	·420	58	59	·041	·036	315	335	·056	·091	215	215
April	1·427	1·806	235	239	·293	·369	69	70	·094	·143	55	43	·059	·063	250	240
May	1·840	2·126	244	241	·229	·194	120	99	·203	·246	65	57	·079	·031	5	315
June	1·310	2·072	247	242	·082	·117	100	91	·096	·206	65	60	·019	·022	60	15
July	1·613	1·873	245	242	·173	·163	79	68	·187	·197	60	55	·047	·003	25	23
August	1·744	1·780	240	242	·275	·304	83	67	·207	·168	50	48	·084	·032	320	250
September ..	1·716	1·607	236	241	·429	·468	81	69	·170	·071	5	23	·142	·102	240	233
October	1·150	1·131	237	241	·496	·424	71	67	·082	·076	305	278	·082	·071	190	239
November	·717	·716	251	239	·327	·354	50	63	·122	·120	275	253	·076	·022	150	105
December	·291	·446	222	234	·167	·272	87	57	·089	·103	225	240	·004	·032	285	60
Arithmetic Mean ..	1·176	1·352	..	..	·286	·311	..	..	·125	·130	..	..	·057	·044	..	..
Year	1·168	1·348	239	240	·271	·325	71	66	·045	·037	30	42	·019	·044	255	231
Winter	·526	·619	234	237	·242	·317	55	56	·099	·104	240	238	·014	·014	170	86
Equinox	1·348	1·472	234	239	·414	·419	70	66	·076	·054	355	9	·078	·081	225	228
Summer	1·629	1·963	244	242	·179	·191	94	78	·176	·203	60	56	·050	·013	360	306

NOTE.—The seasonal means are derived from the following grouping of months :—*Winter :* January, February, November and December ; *Equinox :* March, April, September and October ; *Summer :* May to August, inclusive.

TERRESTRIAL MAGNETISM.

Notes on the Magnetic Observations for the year 1931.

Absolute observations of declination, horizontal force and inclination were made weekly at the Valentia Observatory during the year 1931. The instruments in use for observations of declination and horizontal force were the same as in previous years namely, the Dover unifilar, No. 139, with collimator magnet 139A and mirror magnet 139C. Dover dip circle, No. 239 was in use until October 16th when it was replaced by Dover dip circle No. 118. The mean times of observation were 10·22 for the declination, 11·44 for the horizontal force and 14·30 for the inclination, all according to Greenwich Mean Time. In the individual observations the greatest departure from the mean time in any element was 6 minutes. The deflection of the mirror magnet was measured for two distances of the collimator magnet, namely, 30cm. and 40cm. The complete deflection observation consisted of eight readings of the mirror magnet. The distribution constant, P, used for 1931 was computed from the mean deflections for 30cm. and 40cm. for the seven years 1924–1930 inclusive. The mean P so obtained was 7·67. The moment of the collimator magnet has decreased at the rate of about 1½ units per annum. An iron manhole cover weighing 84 lbs. which was situated at a distance of 25½ feet from the dip circle and of 29½ feet from the magnetometer, and had been in that position since December 5th, 1930, was removed on March 14th.

A new fence of galvanised iron was erected round the instrument enclosure on March 7th. The weight of the fence is approximately 450 lbs. The distance between the magnetic hut and the nearest point of the fence is 65 feet.

The values of the declination, horizontal force and inclination obtained in the absolute observations are given in detail in Table C. All the observations made are included in this table, but in Table D the mean monthly values are computed from only such of the absolute observations as were taken at times subsequently found, by reference to the Eskdalemuir magnetograph curves, to be free from serious disturbance. Observations in Table C taken at disturbed times, and not, therefore, utilised for the mean values in Table D, are marked with an asterisk. The north, west and vertical components and the total force for each month and the year are computed from the corresponding mean values of the observed elements.

Westerly declination has diminished by 10′·8 as compared with 1930. From 1929 to 1930 the decrease was 9′·7 and in the previous 12 months 10′·7. The average annual decrease for five year periods since 1910 is as follows :—

1910–15	1915–20	1920–25	1925–30	1926–31
8′·2	9′·2	11′·1	11′·0	10′·8

The rate of the eastward movement of the magnetic needle increased slowly up to about 1927, but is now apparently decreasing again.

Northerly inclination decreased 1′·1 from 1930 to 1931. Changes during the past few years have been irregular but, on the whole, it appears that inclination is diminishing at a slow rate.

Up to 1920 the mean annual values of horizontal force had shown a steady decline from year to year. In the years 1921 to 1924, 1927 and in 1931 the change was in the opposite direction, each year having a mean value higher than that of the preceding year.

The amount of annual change is shown in the following table :—

Period.	Annual Change.
1910–15	5γ decrease (mean value).
1915–20	6γ ,, (mean value).
1920–21	8γ increase.
1921–22	1γ ,,
1922–23	3γ ,,
1923–24	2γ ,,
1924–25	5γ decrease.
1925–26	14γ ,,
1926–27	2γ increase.
1927–28	11γ decrease.
1928–29	5γ ,,
1929–30	8γ ,,
1930–31	2γ increase.

The reversal of the annual change in horizontal force in certain years was not accompanied by a corresponding reversal in the total force. The average annual decrease in total force for five year periods since 1910 is as follows :—

1910–15	1915–20	1920–25	1925–30	1926–31
49γ	33γ	32γ	20γ	20γ

The total force has continued to decrease, but at a rate which is apparently diminishing gradually. The individual changes from year to year as shown in Table D are somewhat irregular, but this may be due in considerable measure to instrumental uncertainties. The total force is computed from the horizontal force and the inclination, using the formula $T = H \sec. I$, so that an error of $0'{\cdot}1$ in I would give an error approximately 4γ in T at Valentia. In addition, it is to be remembered that the secular change data for Valentia are obtained from absolute observations made at fixed hours at any of which the value obtained for an element may differ, by an amount which is not necessarily constant, from its true mean value for the day of observation. It is by no means improbable that owing to this and errors of observation, uncertainties to the extent of several tenths of a minute of arc may be introduced into the mean value of I for the year. For the average change over a series of years these possible errors are naturally much diminished and the average fall of 32γ per annum in the total force obtained from the values in Table D is probably a close approximation to the true change. This continued decrease in the total force indicates that the rise in the value of the horizontal force observed in certain years was not a true increase in the magnetic field but merely a component increase arising from the fall in the inclination, which becomes proportionally more effective in the horizontal component as the actual inclination angle itself becomes smaller. The magnetic field in the Valentia district continues to become less year by year, therefore, although without observations of inclination the opposite would have appeared to be the case in some years.

TABLE C.

Cahirciveen (Valentia Observatory). Absolute Magnetic Observations, 1931.

Latitude 51° 56′ N. Longitude 10° 15′ W.

Date.	Westerly Declination	Horizontal Force	Northerly Inclination
	° ′	γ	° ′
January 2 ..	17 21·7	17833	67 56·8
,, 9 ..	17 24·9	17841	67 58·6
,, 16 ..	17 27·1	17824	68 0·6
,, 23 ..	17 22·3	17835	67 58·4
,, 30 ..	17 23·0	17818	67 58·8
February 6 ..	17 22·1	17825	67 58·9
,, 13 ..	17 19·8	17871*	67 58·4
,, 20 ..	17 20·7	17823	67 58·3
,, 27 ..	17 27·6	17814	67 58·9
March 7 ..	17 17·7	17814	68 3·1
,, 13 ..	17 21·6	17799	68 0·5
,, 20 ..	17 16·6	17814	68 0·3
,, 27 ..	17 19·5	17807	67 59·2
April 2 ..	17 18·5	17812	67 58·5
,, 10 ..	17 18·4	17793	68 0·1
,, 17 ..	17 16·9	17819	67 59·0
,, 24 ..	17 16·7	17807	67 59·2
May 1 ..	17 18·7	17818	67 57·5
,, 8 ..	17 16·6	17813	67 58·3
,, 15 ..	17 15·7	17802	67 58·9
,, 22 ..	17 16·0	17819	67 58·4
,, 29 ..	17 18·4	17829	67 56·7
June 5 ..	17 17·1	17823	67 58·1
,, 12 ..	17 17·4	17828	67 57·9
,, 19 ..	17 15·4	17814	67 57·4
,, 26 ..	17 15·5	17822	67 58·4
July 3 ..	17 15·1	17823	67 57·4
,, 10 ..	17 16·3	17820	67 57·5
,, 17 ..	17 16·3	17811	67 58·9
,, 24 ..	17 17·8	17816	67 58·1
,, 31 ..	17 15·1	17814	67 57·6
August 7 ..	17 15·7	17811	67 59·6
,, 14 ..	17 15·3	17832	67 58·4
,, 21 ..	17 14·5	17800	67 58·7
,, 28 ..	17 14·3	17811	67 58·6
September 4 ..	17 16·2	17782	67 57·9
,, 11 ..	17 17·8	17814	67 58·4
,, 18 ..	17 14·1	17802	67 59·3
,, 25 ..	17 12·5	17820	67 58·2
October 2 ..	17 18·6	17791	67 59·3
,, 9 ..	17 12·6	17811	67 58·8
,, 16 ..	17 12·7	17805	67 59·2
,, 23 ..	17 14·2	17807	67 57·5
,, 30 ..	17 14·0*	17759*	68 3·6*
November 6 ..	17 17·1*	17771*	67 59·7
,, 13 ..	17 14·3	17823	67 59·1
,, 20 ..	17 13·5	17812	67 59·5
,, 27 ..	17 10·5	17823	67 59·1
December 4 ..	17 15·6	17796	67 59·4
,, 11 ..	17 11·7	17821	67 58·0
,, 18 ..	17 12·0	17829	67 58·4
,, 24 ..	17 12·3	17826	67 59·1

* Disturbance at these times. Values not utilised in computing means given in Table D.

TABLE D.

Valentia Observatory, Cahirciveen.

Magnetic Data for the Year 1931.

1931.	Declination (West).		Inclination (North).		Horizontal Force.	North.	West.	Vertical.	Total.
	°	′	°	′	γ	γ	γ	γ	γ
January	17	23·8	67	58·6	17830	17015	5331	44080	47549
February	17	22·5	67	58·6	17821	17008	5322	44057	47524
March	17	18·9	68	0·8	17809	17002	5300	44107	47567
April	17	17·6	67	59·2	17808	17003	5294	44047	47511
May	17	17·1	67	57·9	17816	17011	5294	44020	47489
June	17	16·3	67	58·0	17822	17018	5291	44036	47506
July	17	16·1	67	57·9	17817	17014	5289	44021	47490
August	17	14·9	67	58·8	17813	17012	5282	44045	47512
September	17	15·1	67	58·5	17805	17004	5280	44012	47478
October	17	14·5	67	58·7	17803	17003	5277	44015	47480
November	17	12·8	67	59·3	17819	17021	5273	44079	47544
December	17	12·0	67	58·7	17818	17021	5269	44054	47520
Year, 1931	17	16·8	67	58·7	17815	17011	5292	44048	47514
Year, 1930	17	27·6	67	59·8	17813	16992	5345	44081	47546
Year, 1929	17	37·3	67	59·6	17821	16985	5395	44093	47559
Year, 1928	17	48·0	67	59·3	17826	16973	5449	44096	47563
Year, 1927	17	59·5	67	59·2	17837	16965	5509	44119	47588
Year, 1926	18	10·8	68	0·1	17835	16945	5565	44147	47612
Year, 1925	18	22·4	68	0·0	17849	16939	5626	44177	47646
Year, 1920	19	17·9	68	5·3	17840	16837	5896	44353	47806
Year, 1915	20	3·8	68	7·9*	17869	16785	6130	44519*	47972*
Year, 1910	20	44·6	68	13·0	17892	16732	6337	44771	48215

* Mean of 11 months only.

Readings in millibars, at exact hours, Greenwich Mean Time.

343. Cahirciveen (Valentia Observatory) : H_b (height of barometer cistern above M.S.L.) = 13·7 metres. **January, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	986·4	986·5	987·0	987·3	987·5	988·1	988·6	989·7	991·1	992·3	992·7	993·3	993·3	993·7	994·2	995·0	995·7	995·8	996·1	996·4	996·6	997·3	997·5	997·3	992·3
2	997·1	996·8	997·0	997·3	996·8	997·0	996·7	996·6	996·6	997·0	997·4	997·0	996·6	995·4	994·5	994·3	994·2	994·2	994·1	994·1	994·0	994·1	994·6	994·5	995·8
3	994·5	994·8	995·0	995·4	995·8	995·8	996·1	997·0	997·9	998·6	999·2	999·5	999·7	999·8	000·4	001·0	001·4	002·0	002·5	003·1	003·7	004·1	004·4	004·7	999·2
4	004·9	004·9	005·2	005·5	006·1	006·7	007·2	008·0	009·3	009·8	010·7	011·1	011·3	011·5	011·8	012·5	012·8	013·4	014·2	014·3	014·7	015·0	015·2	015·4	010·3
5	015·3	015·1	015·2	015·5	015·5	015·6	015·9	016·2	016·8	016·9	017·1	017·1	016·8	016·4	016·5	016·8	016·9	017·2	017·5	018·2	018·6	018·9	019·3	019·5	016·8
6	019·7	020·2	020·4	020·6	020·9	021·5	022·0	022·7	023·4	024·1	024·8	025·0	024·8	025·0	025·3	026·0	026·3	026·8	027·3	027·7	028·1	028·3	028·3	028·4	024·3
7	028·5	028·4	028·7	029·0	028·8	028·7	029·0	029·4	029·8	030·2	030·4	030·2	029·9	029·6	029·8	030·2	030·6	030·8	031·0	031·4	031·3	031·2	031·2	031·0	029·9
8	030·8	030·7	030·8	030·8	030·6	030·1	030·1	030·6	031·0	030·6	031·4	030·7	029·8	029·4	029·3	029·3	029·0	028·7	028·6	028·6	028·8	029·3	029·4	029·9	030·0
9	030·2	030·3	030·4	030·6	030·8	030·7	031·4	031·9	032·2	032·4	032·6	032·8	032·5	032·0	031·9	032·0	032·2	032·4	032·6	032·7	032·8	032·6	032·2	031·9	**031·8**
10	031·8	031·6	031·6	031·2	031·0	030·9	030·9	031·0	031·1	031·2	031·2	031·0	030·6	030·3	030·2	030·1	030·2	030·3	030·4	030·4	030·2	029·9	029·7	029·2	030·7
11	028·7	028·4	028·2	027·5	026·9	026·5	026·2	026·1	025·8	025·5	024·6	023·4	022·2	021·1	020·3	019·5	018·7	018·5	018·7	018·3	017·8	017·3	016·5	015·3	022·9
12	014·6	013·5	012·4	011·4	010·2	009·2	009·1	009·1	009·0	008·8	008·4	008·1	007·5	007·3	007·8	008·2	008·6	009·2	009·5	010·4	010·8	011·3	011·5	012·1	010·0
13	012·4	012·7	013·6	014·5	014·7	015·1	016·1	017·0	017·8	018·4	018·9	019·5	019·6	020·1	020·6	021·1	022·0	022·5	023·6	024·1	024·8	025·2	025·3	025·4	019·1
14	025·4	025·1	025·4	025·2	024·8	024·9	025·1	025·3	025·5	025·4	025·1	024·8	024·2	023·4	023·2	023·2	023·0	022·9	022·9	022·9	022·8	022·5	022·4	022·3	024·1
15	022·0	021·8	021·4	021·3	021·4	021·7	022·6	023·3	023·8	024·1	024·5	024·5	024·1	024·1	024·1	024·1	024·3	024·2	024·7	024·4	024·2	023·7	023·6	023·2	023·4
16	023·0	022·8	022·5	021·7	021·0	020·3	020·3	019·9	019·5	019·2	017·9	017·2	016·3	015·3	014·8	014·1	014·0	014·0	014·1	014·3	014·4	014·7	014·9	014·9	017·7
17	014·9	015·1	015·0	015·6	015·2	014·9	015·5	015·6	016·2	016·7	016·3	016·8	016·6	016·9	017·1	017·2	017·8	018·4	018·9	019·2	019·1	019·1	019·2	019·3	016·9
18	019·0	018·9	018·8	018·3	018·2	017·7	017·7	018·4	018·6	018·7	018·6	018·4	018·4	018·2	018·3	018·3	018·2	018·2	018·2	017·9	017·4	017·3	017·1	016·6	018·2
19	016·3	015·9	015·4	015·2	014·7	014·2	013·8	014·0	014·1	014·0	013·5	012·8	011·9	011·2	010·7	010·1	009·4	008·9	009·0	009·5	010·6	011·4	012·5	013·4	012·7
20	014·1	014·9	015·3	015·3	015·5	016·0	016·5	017·1	017·9	018·4	018·7	018·6	018·4	018·0	017·7	017·5	017·2	016·8	016·4	015·6	015·0	014·6	013·7	013·4	016·4
21	012·9	012·4	011·8	011·1	010·3	009·2	008·8	008·4	008·4	008·3	008·3	008·5	008·8	008·6	009·0	009·2	009·5	009·6	010·1	010·6	010·7	010·5	010·7	011·1	009·9
22	010·9	010·7	010·9	010·4	010·2	009·8	009·0	008·6	008·4	007·5	005·9	004·7	003·0	001·5	999·8	998·0	996·5	995·7	995·5	995·2	994·7	994·3	993·8	993·6	003·2
23	993·3	993·1	992·1	991·6	991·2	990·0	989·8	989·4	988·6	986·9	984·9	986·1	985·8	986·1	986·2	987·2	988·1	989·0	989·7	990·5	990·9	991·7	991·7	991·8	**989·4**
24	992·2	992·9	993·8	994·5	995·1	995·8	996·8	997·2	998·5	999·8	000·8	001·2	001·5	001·6	002·1	002·7	002·8	002·9	003·4	003·6	004·1	005·0	005·8	006·7	999·7
25	007·4	007·8	008·9	009·5	010·3	010·6	011·5	012·6	013·3	014·0	014·7	014·9	015·0	014·5	014·8	014·8	014·6	015·6	016·0	016·3	017·4	018·7	019·3	020·6	013·6
26	021·6	022·1	022·7	023·2	023·6	023·8	024·0	024·7	025·1	025·3	025·4	025·4	025·0	024·7	024·8	024·6	024·1	023·6	022·9	022·2	021·4	020·7	020·0	019·3	023·4
27	018·3	017·9	017·3	016·6	016·0	015·0	013·9	012·9	011·9	011·1	009·0	007·7	007·3	007·6	008·4	010·0	011·3	012·7	013·4	014·2	014·8	015·5	016·2	016·5	013·2
28	016·9	016·8	016·8	016·6	016·4	015·4	015·1	014·6	014·2	013·4	012·7	011·8	010·5	008·8	008·9	008·7	008·7	008·7	008·5	008·4	008·9	008·9	008·9	009·0	012·1
29	009·1	008·4	008·3	007·6	007·1	006·7	006·2	006·1	005·5	004·6	003·1	001·4	000·0	000·9	003·5	005·0	006·2	007·6	008·8	010·0	011·1	012·1	012·9	013·9	006·8
30	014·6	015·2	015·7	016·2	016·7	016·9	017·2	018·0	018·3	018·5	019·7	019·8	019·5	019·3	018·8	018·7	018·3	017·8	017·5	017·1	016·5	016·0	015·4	014·7	017·3
31	013·6	012·2	010·4	008·4	006·2	004·2	001·8	999·2	997·2	995·6	994·3	993·3	992·8	993·7	994·8	996·7	998·0	000·0	002·0	004·1	005·9	006·9	008·7	009·8	002·2
Mean (Station Level)	1014 ·21	1014 ·13	1014 ·13	1014 ·03	1013 ·85	1013 ·65	1013 ·71	1013 ·89	1014 ·09	1014 ·11	1013 ·96	1013 ·76	1013 ·35	**1013 ·10**	1013 ·21	1013 ·42	1013 ·57	1013 ·82	1014 ·13	1014 ·38	1014 ·58	1014 ·78	1014 ·90	**1014 ·99**	1013 ·97
Mean (Sea Level)	1015 ·91	1015 ·83	1015 ·83	1015 ·73	1015 ·55	1015 ·35	1015 ·41	1015 ·59	1015 ·79	1015 ·81	1015 ·66	1015 ·45	1015 ·04	**1014 ·79**	1014 ·90	1015 ·11	1015 ·26	1015 ·52	1015 ·83	1016 ·08	1016 ·28	1016 ·48	1016 ·60	**1016 ·69**	1015 ·67

Days 1–31: Station Level.

344. Cahirciveen (Valentia Observatory) : H_b = 13·7 metres. **February, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	010·7	011·3	012·4	013·3	014·3	015·3	016·2	016·7	016·9	017·2	017·3	017·2	016·9	017·0	017·0	016·6	016·2	015·7	015·2	014·1	012·9	012·2	011·3	010·0	014·7
2	008·9	008·6	008·2	007·9	007·8	007·9	008·3	009·0	009·7	011·0	012·6	013·8	014·6	016·0	017·2	018·5	019·6	020·3	021·2	021·7	022·6	022·9	023·3	023·7	014·5
3	023·7	023·4	023·0	023·0	023·2	023·5	024·1	024·4	024·8	024·9	025·1	025·1	024·9	024·3	023·9	023·9	023·8	023·7	023·7	023·8	023·9	024·0	023·7	023·8	024·0
4	023·8	023·7	023·7	023·1	023·2	023·7	023·1	023·6	024·0	024·3	024·8	024·6	024·7	024·7	024·8	025·3	025·4	025·3	025·3	025·2	025·2	024·9	024·4	024·0	**024·4**
5	023·8	023·3	022·5	021·8	021·8	019·9	019·3	018·5	017·3	016·1	015·2	013·9	012·2	010·5	008·7	007·1	005·7	004·2	003·4	003·2	002·8	003·3	004·4	005·8	013·1
6	007·1	008·5	009·5	009·8	010·5	011·1	011·9	012·3	013·0	013·9	014·3	014·4	014·3	014·5	014·6	014·9	015·3	015·7	015·7	015·8	016·1	016·1	015·9	015·7	013·2
7	015·6	015·4	015·1	014·8	014·4	014·0	013·7	013·7	013·3	013·0	012·3	012·2	011·0	010·2	008·8	008·4	007·0	006·6	005·8	004·4	002·5	000·9	999·8	998·5	010·0
8	997·9	997·5	996·8	996·5	996·3	996·5	997·3	998·0	998·9	999·2	999·7	000·4	000·8	001·2	001·2	001·8	001·8	001·5	001·7	001·9	001·9	002·2	002·9	003·8	**999·8**
9	005·5	006·2	006·9	007·7	008·2	008·6	008·9	009·4	009·7	009·7	009·2	008·7	007·7	006·4	005·0	003·7	002·8	002·3	002·0	001·2	001·0	000·2	001·1	001·2	005·6
10	002·0	003·5	004·7	005·2	006·7	008·2	008·9	009·9	012·2	013·1	014·2	014·8	015·6	016·6	017·5	018·4	019·3	020·0	021·1	020·7	020·8	020·7	020·5	019·9	013·5
11	019·7	019·0	017·9	016·4	014·1	012·6	010·9	008·6	007·4	007·0	006·5	005·2	003·9	003·8	003·9	004·7	005·2	005·6	006·3	006·5	007·5	007·7	008·5	008·8	009·3
12	009·3	009·6	009·8	009·5	009·6	010·1	010·0	010·2	009·7	009·3	009·4	008·9	008·2	008·1	008·0	008·7	008·6	008·9	009·6	009·6	009·9	009·7	009·9	009·7	009·3
13	009·5	009·4	009·2	009·2	009·2	010·0	010·2	011·0	011·7	012·6	013·3	013·9	014·2	014·3	014·8	014·9	015·4	016·2	016·6	016·7	017·5	017·3	018·0	018·3	013·3
14	018·8	018·9	019·0	018·9	018·9	018·9	019·0	019·2	018·7	018·4	018·1	017·8	017·5	017·3	017·4	017·4	017·3	017·2	017·4	016·9	016·6	016·7	016·5	016·0	017·9
15	015·5	015·0	015·1	015·2	015·3	015·1	015·0	015·2	015·6	015·7	015·2	014·9	014·1	013·0	012·5	011·7	010·8	010·3	009·5	008·5	007·8	006·8	006·3	004·8	012·7
16	003·9	003·0	001·8	001·2	001·3	001·3	001·4	001·6	002·3	002·7	003·3	002·8	003·0	003·3	003·4	003·9	004·1	005·0	005·3	005·8	006·4	006·6	007·1	007·4	003·6
17	007·8	007·8	008·0	008·4	008·5	009·1	009·2	009·6	010·5	010·9	011·6	012·0	012·5	012·4	012·7	012·7	013·4	013·7	014·6	015·1	015·8	016·8	017·4	018·1	011·8
18	018·5	018·6	019·0	019·1	019·3	019·7	019·9	020·4	020·9	021·0	020·5	020·5	020·4	019·7	019·5	019·4	019·9	019·6	019·6	019·7	019·4	019·1	019·0	018·6	019·6
19	018·2	017·3	016·7	015·8	015·3	014·7	014·4	014·1	013·7	013·6	013·1	012·9	012·8	012·0	011·4	011·2	010·9	010·7	010·7	010·4	010·0	009·8	009·4	008·6	013·0
20	007·7	007·0	006·4	006·0	005·9	005·7	005·4	005·3	005·0	004·7	005·2	005·7	005·7	005·4	005·5	005·6	005·5	005·5	005·5	005·5	005·4	005·1	005·1	005·3	005·7
21	005·5	005·6	006·0	006·6	007·0	007·6	008·3	010·0	010·6	011·3	012·0	012·8	013·2	013·7	013·4	013·9	014·2	014·3	014·8	015·3	015·7	015·8	016·0	016·2	011·4
22	016·3	016·3	016·2	016·1	016·2	016·4	016·5	016·7	017·0	017·2	017·2	017·2	017·2	017·3	017·1	017·2	017·5	017·8	018·1	018·5	018·8	019·1	019·4	020·1	017·3
23	020·2	020·6	020·8	021·1	021·2	021·7	022·2	023·0	023·4	023·8	024·4	024·7	024·7	024·7	025·0	025·3	025·5	025·6	026·1	026·5	026·3	026·4	026·7	026·7	023·9
24	026·6	026·3	025·7	025·4	025·3	024·8	024·8	024·5	024·7	024·8	024·5	024·4	024·2	023·7	023·1	022·7	022·6	022·7	022·9	023·0	023·1	022·9	022·9	022·6	024·2
25	022·2	021·7	021·3	021·2	021·2	021·3	021·4	021·6	021·8	021·7	021·5	021·6	021·5	021·3	020·9	020·9	020·9	021·1	021·2	021·2	020·7	020·3	019·7	019·0	021·2
26	018·1	017·4	016·2	015·2	014·7	014·2	014·5	014·9	015·5	015·7	015·8	016·0	016·2	016·2	016·4	016·6	017·1	017·6	017·9	018·0	018·5	018·3	018·1	018·0	016·6
27	017·3	016·6	015·6	014·5	013·9	012·9	012·4	011·7	010·6	009·6	008·5	007·0	006·0	004·7	004·0	003·8	004·2	005·1	005·4	005·7	005·5	005·5	005·0	004·5	009·0
28	004·0	003·6	002·6	001·6	000·8	000·7	999·6	998·2	997·9	000·5	002·0	003·5	003·9	005·0	004·6	004·9	005·1	005·4	006·3	006·9	007·5	007·7	008·4	008·9	003·6
Mean (Station Level)	1013 ·50	1013 ·40	1013 ·22	1013 ·02	**1013 ·00**	1013 ·05	1013 ·10	1013 ·26	1013 ·46	1013 ·67	1013 ·81	**1013 ·82**	1013 ·64	1013 ·47	1013 ·30	1013 ·36	1013 ·36	1013 ·49	1013 ·67	1013 ·64	1013 ·65	1013 ·54	1013 ·60	1013 ·50	1013 ·44
Mean (Sea Level)	1015 ·20	1015 ·10	1014 ·92	1014 ·72	**1014 ·70**	1014 ·75	1014 ·80	1014 ·96	1015 ·16	1015 ·37	1015 ·50	**1015 ·51**	1015 ·33	1015 ·16	1014 ·99	1015 ·05	1015 ·05	1015 ·18	1015 ·37	1015 ·34	1015 ·35	1015 ·24	1015 ·30	1015 ·20	1015 ·14
Hour. G.M.T	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

Days 1–28: Station Level.

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

345. Cahirciveen (Valentia Observatory): H_b (height of barometer cistern above M.S.L.) = 13·7 metres. March, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Station Level — Day.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	009·4	010·0	010·2	011·0	011·4	011·6	011·9	012·4	012·7	013·1	013·6	013·5	013·9	014·2	140·0	013·2	013·2	013·2	013·4	012·8	012·5	012·0	011·6	010·8	012·3
2	010·5	009·5	009·0	008·1	007·4	006·6	006·3	006·2	006·0	005·8	005·8	005·6	005·3	004·8	003·9	003·7	003·1	002·9	002·8	002·7	002·6	002·3	002·1	001·7	005·4
3	001·3	000·9	000·7	000·4	000·0	999·5	999·2	999·2	998·9	998·7	998·6	998·6	998·4	998·0	997·6	997·4	997·0	997·2	997·4	997·7	997·6	997·7	997·4	997·6	998·7
4	997·7	997·7	997·7	997·8	998·0	998·3	998·8	999·5	000·4	001·2	002·0	002·6	002·8	002·9	003·3	003·9	004·2	004·7	005·1	005·1	005·0	005·2	005·1	004·8	001·7
5	004·8	004·4	003·8	003·1	002·4	002·0	001·8	001·5	001·2	000·8	999·9	999·3	999·0	998·6	997·5	997·1	996·6	996·2	995·8	996·0	996·0	996·3	996·3	996·2	999·6
6	996·1	995·9	995·7	995·5	995·2	995·1	995·5	995·9	996·2	996·2	996·6	997·0	996·7	997·1	997·1	996·8	997·0	997·0	997·5	997·7	998·0	998·1	998·5	998·8	996·7
7	998·9	999·4	999·4	999·5	999·7	000·2	000·6	001·0	001·5	001·8	002·2	002·2	002·3	002·4	002·4	002·5	002·8	003·4	003·9	003·9	003·9	003·9	003·8	003·6	001·8
8	003·6	003·2	003·3	003·2	003·3	003·4	003·6	003·7	003·7	004·0	004·5	004·7	004·7	004·8	004·9	005·0	005·3	005·5	005·9	006·0	006·3	006·4	006·4	006·4	004·6
9	006·6	007·0	007·0	006·9	007·2	007·5	007·9	008·3	008·6	008·7	009·1	008·9	008·9	008·9	008·9	008·9	009·2	009:4	010·2	010·5	010·7	010·9	011·4	011·6	008·8
10	011·8	011·5	011·5	011·2	010·9	011·3	011·5	011·3	011·2	010·6	009·9	009·7	010·0	009·9	009·9	010·1	010·5	010·9	011·3	011·8	012·5	013·1	013·6	014·0	011·2
11	014·2	014·4	014·5	015·0	015·4	015·9	016·3	016·8	017·0	017·4	017·4	017·4	017·3	016·7	016·4	016·0	016·1	015·8	016·0	016·1	016·1	015·9	015·7	015·4	016·0
12	014·8	014·4	014·1	013·4	013·0	012·8	012·7	012·3	012·1	011·9	011·6	011·1	010·6	010·2	009·6	009·0	008·6	008·5	008·0	007·5	007·3	006·9	006·1	005·2	010·7
13	004·5	003·6	002·8	002·0	001·6	001·1	000·2	000·3	000·1	000·0	999·3	999·2	999·0	998·8	998·7	998·6	998·4	998·5	999·0	999·1	999·0	998·9	999·1	999·0	000·2
14	999·1	999·0	999·0	998·8	999·0	999·0	999·1	999·3	999·6	999·6	999·8	999·8	999·8	999·7	999·7	999·4	999·6	999·8	000·0	000·3	000·4	000·9	001·1	001·2	999·7
15	001·2	001·8	001·7	001·6	001·7	001·8	001·9	002·3	002·7	002·9	002·9	002·9	003·0	002·7	002·4	002·4	002·5	002·5	002·5	002·6	002·6	002·5	002·5	002·5	002·3
16	002·3	002·0	001·5	001·0	000·6	000·5	000·5	000·0	000·5	000·3	999·8	999·4	998·9	998·4	997·8	997·6	997·8	997·3	997·5	997·7	997·6	997·4	997·6	997·7	999·3
17	998·2	998·5	998·3	998·1	998·3	998·5	998·5	998·7	999·0	999·3	999·8	000·1	999·8	999·5	999·2	998·9	998·9	999·1	999·2	999·2	999·0	998·9	998·7	998·2	998·9
18	997·7	997·1	996·6	996·5	996·4	996·3	996·5	996·5	997·1	997·3	997·5	997·6	998·0	997·9	997·6	997·5	997·5	997·8	998·4	998·8	998·9	999·1	999·3	999·3	997·6
19	999·0	998·6	998·3	997·8	997·3	996·6	995·9	995·3	994·4	993·3	992·8	992·2	992·2	992·4	992·4	992·8	993·1	993·8	994·4	994·6	994·8	995·4	995·3	995·4	**995·0**
20	995·5	995·6	995·5	995·4	995·5	995·2	995·3	995·7	995·6	995·2	995·3	995·4	995·2	994·9	994·9	995·1	995·5	996·1	996·4	996·7	997·0	997·1	997·2	997·3	995·7
21	997·4	997·6	997·6	997·8	998·1	998·7	999·3	000·1	000·8	001·5	001·9	002·2	002·3	002·6	002·8	003·0	003·5	003·6	004·1	004·4	005·0	005·0	005·1	005·2	001·5
22	005·2	005·2	005·2	005·1	005·4	005·5	006·0	006·5	006·9	007·4	007·6	007·8	007·8	007·9	008·0	008·4	009·1	009·8	010·3	011·2	011·9	012·5	012·7	012·9	008·0
23	013·3	013·5	013·6	013·6	013·9	014·4	015·1	015·8	016·3	016·9	017·0	017·3	017·6	017·7	017·8	018·1	018·7	019·6	020·7	021·5	022·6	023·1	023·5	023·7	017·5
24	023·7	024·1	024·2	024·2	024·6	025·0	025·5	026·1	026·5	026·6	026·9	027·0	026·5	026·4	026·1	026·1	026·0	026·1	026·1	026·7	027·3	027·0	026·8	026·3	**025·9**
25	026·0	025·8	025·2	024·6	024·2	024·2	024·4	024·4	024·6	024·8	024·3	024·0	023·6	022·8	022·7	022·4	022·4	022·3	022·4	023·3	023·1	023·1	023·1	023·2	023·9
26	023·2	023·2	022·7	022·7	022·9	022·7	022·7	022·9	023·1	023·4	023·5	023·5	023·4	023·3	023·1	022·6	022·7	022·9	023·0	023·2	023·1	023·4	023·2	023·1	023·1
27	022·4	022·0	021·3	021·1	021·1	020·8	020·9	020·6	020·7	020·6	020·5	020·3	020·2	019·8	019·6	019·5	019·2	019·3	019·2	019·1	019·2	018·8	018·7	018·4	020·2
28	018·1	017·3	017·0	016·4	016·1	015·9	015·9	016·0	015·9	015·9	016·0	015·8	015·5	015·3	014·7	013·8	013·3	012·9	012·7	012·9	012·4	012·7	012·2	011·8	015·0
29	010·6	010·8	010·6	010·2	009·8	009·5	009·6	009·7	009·7	009·9	010·3	011·1	011·6	011·5	011·3	011·0	011·4	011·3	011·4	011·5	011·5	011·5	011·5	011·1	010·8
30	010·9	010·6	010·2	009·7	009·3	008·8	008·7	008·6	008·2	008·2	007·7	007·5	007·5	007·0	006·8	006·4	006·3	006·3	006·5	006·8	006·9	007·0	006·9	007·0	008·0
31	006·8	006·3	006·1	005·9	005·5	005·4	005·4	005·5	005·3	005·5	005·6	005·4	005·3	005·0	004·4	003·8	003·0	002·5	002·5	002·2	002·0	001·8	001·5	001·3	004·5
Mean (Station Level)	**1007·25**	1007·13	1006·91	1006·70	1006·62	1006·58	1006·69	1006·85	1006·98	1007·06	1007·09	1007·07	1007·00	1006·84	1006·63	**1006·48**	1006·53	1006·65	1006·89	1007·08	1007·19	**1007·25**	1007·23	1007·12	1006·91
Mean (Sea Level)	**1008·92**	1008·80	1008·59	1008·38	1008·30	1008·26	1008·37	1008·53	1008·65	1008·73	1008·75	1008·73	1008·66	1008·50	1008·29	**1008·14**	1008·19	1008·31	1008·56	1008·75	1008·86	**1008·92**	1008·90	1008·79	1008·58

346. Cahirciveen (Valentia Observatory): H_b = 13·7 metres. April, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Station Level — Day.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	001·0	000·5	999·9	999·3	999·0	998·8	998·3	997·8	997·0	996·5	996·1	995·2	995·0	994·5	994·6	994·6	995·0	995·8	996·0	996·7	997·5	997·9	998·3	998·6	997·3
2	998·7	998·7	999·2	999·5	999·2	000·2	000·9	001·8	002·2	003·1	003·3	003·6	004·0	004·3	004·6	005·3	005·9	006·5	007·2	007·9	008·2	008·5	008·7	009·3	003·6
3	009·5	009·5	009·8	010·2	010·4	010·7	011·3	011·5	012·1	012·9	013·3	013·7	013·8	014·2	014·4	014·7	015·3	015·8	015·9	016·7	017·3	017·4	017·7	017·8	013·4
4	017·9	018·0	018·1	018·1	018·2	018·3	018·3	018·6	018·8	018·8	019·0	018·8	018·6	018·6	018·1	017·6	017·2	016·9	016·5	016·1	015·7	015·1	014·5	014·0	017·6
5	013·4	012·7	012·4	011·8	011·6	011·2	011·1	011·1	011·0	010·7	010·6	010·4	010·2	009·8	009·4	009·2	009·2	009·1	008·9	008·8	008·8	008·9	008·9	008·8	010·4
6	008·7	008·5	008·1	008·0	008·0	008·2	008·3	008·2	008·3	008·2	008·1	008·0	007·8	007·7	007·4	006·9	006·7	006·7	006·3	006·1	005·9	005·4	005·2	004·8	007·4
7	004·2	003·7	002·9	002·2	001·7	001·3	001·0	000·2	999·9	999·6	999·2	999·2	998·8	998·5	998·2	998·0	997·9	997·6	997·6	997·7	997·7	998·0	998·3	998·7	999·8
8	998·8	998·7	998·8	999·0	999·1	999·6	999·8	000·2	000·8	001·2	002·0	002·4	003·0	003·5	004·0	004·5	005·1	005·6	006·6	007·3	007·8	008·4	008·8	009·2	002·9
9	009·6	009·9	010·3	010·7	011·2	011·9	012·8	013·3	014·4	015·1	015·9	016·4	016·6	016·9	017·3	017·4	018·1	018·8	019·1	019·6	020·3	020·8	021·1	021·1	015·5
10	021·0	020·9	021·1	021·7	022·0	022·4	022·8	022·7	022·8	023·0	023·6	023·6	023·6	023·7	023·6	023·4	023·4	023·2	023·6	023·8	024·0	023·6	023·1	022·5	022·9
11	022·0	021·6	021·2	020·9	020·3	019·6	019·2	019·3	018·6	018·5	018·0	017·0	017·7	017·2	016·8	016·2	015·8	015·7	015·7	015·9	016·1	016·8	017·1	017·7	018·2
12	018·1	018·2	018·3	018·3	018·5	019·0	019·8	020·3	020·6	020·7	021·0	021·0	020·9	021·0	021·1	021·3	021·9	022·6	023·1	024·0	025·0	025·3	025·7	026·1	021·1
13	026·6	027·1	027·4	027·6	027·8	028·5	029·1	029·7	030·0	030·0	030·2	030·4	030·3	030·2	029·7	029·5	029·4	029·5	029·4	029·6	029·6	029·6	029·5	029·3	**029·1**
14	028·9	028·6	028·5	028·2	028·0	028·0	028·2	028·4	028·5	028·6	028·8	028·7	028·4	028·2	027·6	027·3	027·0	026·8	026·6	026·5	026·3	025·6	025·3	024·9	027·7
15	024·5	023·7	023·2	022·2	021·6	021·3	021·6	022·4	023·5	024·1	024·9	025·2	025·4	025·8	026·1	026·3	026·5	027·1	027·4	027·7	028·4	028·7	029·0	029·1	025·1
16	029·1	029·1	029·1	029·2	029·2	029·1	029·3	029·3	029·3	029·2	029·1	028·8	028·7	028·4	027·6	027·5	026·8	026·5	025·8	025·2	024·9	023·9	023·2	022·2	027·7
17	021·0	020·1	019·0	018·2	017·8	017·0	017·2	017·2	017·0	017·3	017·4	017·4	017·1	017·4	017·5	017·4	017·5	017·8	018·0	018·4	018·5	018·5	018·4	018·2	018·1
18	018·2	018·1	017·7	018·0	018·0	018·2	018·4	018·7	018·9	019·0	019·2	019·2	019·1	018·7	018·9	019·1	019·0	019·3	019·5	019·8	019·8	020·2	020·6	020·7	019·0
19	020·7	020·7	020·5	020·4	020·6	020·9	021·2	021·4	021·1	021·1	021·0	021·0	021·2	020·7	020·6	020·7	020·9	020·9	021·0	021·3	021·6	021·6	021·5	021·5	021·0
20	021·3	021·3	021·1	020·5	020·2	020·1	020·2	020·0	020·0	020·1	019·8	019·7	019·5	019·3	019·1	018·8	018·6	018·6	018·7	018·9	019·1	019·0	019·0	019·1	019·7
21	019·2	019·0	018·8	018·6	018·4	018·6	018·7	018·8	018·9	018·8	018·8	018·7	018·5	018·2	017·9	017·7	017·4	017·3	017·3	107·2	017·3	017·2	016·9	016·7	018·2
22	016·3	015·6	015·0	014·4	014·0	013·6	013·2	013·0	012·4	012·0	011·4	010·6	009·9	009·3	008·6	008·0	007·4	007·0	006·5	006·3	005·6	004·8	004·1	003·2	010·4
23	001·9	000·7	999·9	999·2	998·8	998·4	997·8	997·2	996·5	995·9	995·4	994·9	994·6	994·1	993·6	992·8	992·2	991·6	990·9	990·5	990·0	989·5	988·8	987·8	995·0
24	987·4	986·2	985·5	984·9	984·3	983·9	983·6	983·5	983·3	983·2	983·0	982·8	982·7	982·5	982·1	981·8	981·6	981·3	981·1	981·1	981·1	981·0	981·0	980·8	**983·1**
25	980·7	980·8	980·9	981·2	981·5	982·1	982·9	983·8	984·5	985·2	986·1	986·9	987·6	988·2	988·8	989·4	990·0	990·9	991·5	992·1	992·5	993·2	993·6	994·1	986·7
26	994·8	995·3	995·9	996·6	997·0	998·0	998·7	999·5	000·1	001·1	002·3	002·9	003·7	004·8	005·5	006·0	006·9	007·8	008·5	009·4	010·3	011·1	011·5	011·9	002·9
27	012·4	012·3	012·7	013·0	013·1	013·7	014·1	014·7	015·0	015·3	015·6	016·1	016·1	016·5	016·7	016·9	017·1	017·4	017·8	018·4	018·6	019·0	018·8	018·9	015·7
28	018·9	018·4	018·2	018·1	018·0	018·0	018·2	018·3	018·5	018·4	018·5	018·3	018·3	018·3	018·0	017·9	017·8	017·8	017·7	017·7	017·8	017·7	017·4	017·3	018·1
29	017·0	016·3	015·8	015·3	015·1	015·1	015·0	015·0	014·8	014·7	014·8	014·7	014·6	014·7	014·5	014·4	014·7	014·7	015·0	015·2	015·7	015·8	015·9	016·0	015·2
30	016·3	016·2	016·1	015·9	016·0	016·2	016·5	016·7	016·7	016·7	016·6	016·4	016·4	016·3	016·2	016·0	015·9	015·8	015·6	015·6	015·7	015·3	015·0	014·8	016·1
Mean (Station Level)	1012·60	1012·35	1012·18	1012·04	**1011·95**	1012·06	1012·25	1012·42	1012·52	1012·63	1012·77	1012·73	1012·74	1012·72	1012·62	1012·55	1012·61	1012·75	1012·83	1013·05	1013·24	**1013·26**	1013·23	1013·17	1012·63
Mean (Sea Level)	1014·29	1014·03	1013·86	1013·72	**1013·63**	1013·74	1013·93	1014·09	1014·20	1014·31	1014·45	1014·41	1014·41	1014·39	1014·29	1014·22	1014·29	1014·43	1014·51	1014·73	1014·92	**1014·94**	1014·91	1014·86	1014·31
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

347. Cahirciveen (Valentia Observatory) : H_b (height of barometer cistern above M.S.L.) = 13·7 metres. **May, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day. (Station Level)	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	014·7	014·3	013·9	013·5	013·3	013·2	013·3	013·1	012·7	012·6	012·2	011·7	011·3	010·8	010·0	009·3	008·5	007·8	007·8	007·6	008·0	008·0	007·9	007·7	011·1
2	007·7	007·4	007·1	006·9	006·9	007·1	007·4	007·7	007·9	008·0	008·1	008·0	007·9	007·8	007·7	007·7	007·5	007·8	007·7	007·8	008·2	008·2	008·1	008·0	007·7
3	007·7	007·7	007·6	007·3	007·3	007·5	007·6	007·7	007·6	007·6	007·5	007·3	007·3	007·3	007·1	006·8	006·8	006·8	006·6	006·5	006·6	006·3	005·9	005·7	007·1
4	005·3	004·9	004·4	004·1	003·8	003·7	003·6	003·5	003·1	003·0	002·6	002·4	002·2	002·2	002·0	001·8	001·7	001·3	001·1	001·1	001·0	001·0	000·9	000·4	002·7
5	000·3	000·2	000·2	000·3	000·2	000·5	000·5	000·5	000·5	000·3	000·4	000·6	000·3	000·4	000·0	999·7	999·8	999·9	000·2	000·6	000·9	000·8	000·6	000·1	000·3
6	999·8	999·0	998·7	998·6	998·5	998·8	999·3	000·0	001·1	001·6	002·5	002·9	003·6	003·9	004·3	004·7	005·4	005·6	006·1	006·6	007·3	007·8	008·2	008·6	002·9
7	008·9	009·1	009·2	009·6	009·7	010·1	010·4	010·5	010·4	010·6	010·7	010·7	011·0	011·5	011·7	012·3	012·2	012·8	013·2	014·1	014·9	015·6	016·2	016·7	011·6
8	017·3	017·4	017·5	017·8	018·4	019·0	019·5	019·8	020·3	020·3	020·3	020·3	020·8	020·9	020·6	020·6	020·7	020·8	020·8	020·9	020·9	020·8	020·8	020·6	**019·8**
9	020·6	019·7	019·1	018·7	018·1	017·9	017·9	017·7	017·7	017·4	017·1	016·8	016·8	016·3	015·7	015·4	015·3	015·0	014·7	014·6	014·5	014·2	013·9	013·2	016·7
10	012·6	011·8	011·1	010·3	009·9	009·5	009·3	009·1	009·2	009·2	009·7	009·9	010·0	009·9	009·2	008·6	007·9	007·1	006·6	006·3	006·8	006·9	006·4	007·1	009·1
11	007·6	007·9	008·3	008·8	009·3	009·9	010·7	011·3	011·8	012·3	013·0	013·2	013·6	013·8	014·0	014·2	014·3	014·6	014·9	015·2	015·4	015·5	015·4	015·3	012·3
12	014·8	014·4	014·2	013·9	013·3	013·3	012·9	013·1	013·2	012·8	012·4	012·3	011·9	011·6	011·0	010·6	010·0	009·4	008·8	008·5	008·1	007·2	006·5	005·6	011·4
13	005·8	005·6	005·4	005·0	004·5	004·3	004·2	004·6	003·3	003·0	002·8	002·4	002·2	001·9	001·6	001·0	000·9	000·3	000·3	000·2	000·4	000·4	000·4	000·7	002·7
14	000·6	000·6	000·8	000·9	001·0	001·8	002·4	003·1	003·8	004·2	004·5	005·0	005·3	005·8	005·8	005·6	005·6	005·8	005·8	005·8	005·8	005·6	005·5	005·3	003·9
15	005·0	004·5	004·1	003·9	003·6	003·5	003·6	003·6	003·6	003·5	003·3	003·4	003·3	003·4	003·2	003·4	003·6	003·8	003·9	004·0	004·3	004·3	004·2	004·1	003·8
16	004·0	004·0	004·0	003·9	003·5	003·8	004·0	004·0	003·9	003·8	003·4	003·4	003·4	003·2	003·2	003·0	003·1	003·2	003·3	003·3	003·3	003·5	003·5	003·4	003·6
17	003·3	003·1	003·0	002·9	002·9	002·8	002·7	002·8	002·7	002·5	002·4	002·4	002·0	001·3	001·0	000·7	000·4	000·1	999·7	999·6	999·6	999·2	998·6	998·3	001·5
18	998·0	997·5	997·4	997·5	997·6	998·3	998·9	999·4	999·9	000·1	000·6	001·2	001·6	002·3	002·9	003·6	004·2	004·8	005·4	006·0	006·6	007·0	007·2	007·2	001·7
19	007·3	007·4	007·6	007·8	008·3	009·0	009·1	009·4	009·8	010·2	010·5	010·8	011·0	011·2	011·5	011·6	011·8	012·0	012·5	012·9	013·4	013·4	013·4	013·2	010·5
20	013·4	013·3	013·3	012·8	012·7	012·8	012·6	012·4	011·8	011·4	011·3	011·0	010·5	009·8	009·4	008·5	008·1	007·6	006·6	006·1	005·7	005·0	004·7	004·1	010·0
21	003·4	003·0	002·5	001·9	001·8	001·7	001·6	001·6	001·6	001·3	000·6	000·2	999·0	998·2	997·7	996·9	996·2	995·7	997·8	999·8	001·4	002·1	002·5	002·9	000·5
22	002·8	003·0	003·0	003·0	003·2	003·4	003·4	003·6	003·5	003·2	002·9	002·3	002·0	001·7	000·8	000·1	999·4	998·4	998·0	997·1	996·8	996·3	996·2	996·5	001·0
23	996·7	997·1	997·3	997·5	997·9	998·1	998·5	998·9	999·1	998·9	998·7	999·7	998·6	998·4	998·2	998·0	997·8	997·7	997·7	997·3	997·4	997·2	997·1	996·9	997·9
24	996·9	996·6	996·2	995·9	995·6	995·0	994·8	994·7	994·8	995·1	995·2	995·4	995·6	995·9	996·7	997·5	998·4	999·0	999·6	000·4	001·3	002·4	002·9	003·5	997·3
25	003·8	004·0	004·1	004·2	004·5	004·9	005·6	006·2	006·6	006·9	007·5	007·9	008·9	009·3	009·5	009·9	010·0	010·2	010·5	010·6	010·9	011·1	011·0	011·1	007·7
26	011·0	011·1	011·3	011·4	011·7	011·9	012·1	012·7	012·9	013·0	013·4	013·4	013·7	014·0	014·2	014·3	014·3	014·3	014·3	014·5	014·7	014·7	014·9	014·8	013·2
27	014·7	014·6	014·4	013·9	013·6	013·6	013·4	013·3	013·1	012·8	012·2	011·7	010·8	010·1	009·6	008·9	007·9	006·9	006·3	005·9	005·8	005·1	004·4	003·6	010·5
28	002·9	001·8	000·6	999·9	999·1	999·0	998·7	998·7	998·8	998·8	998·8	998·7	998·6	998·4	998·1	998·0	997·6	997·6	997·6	997·2	997·0	996·8	996·8	996·2	998·7
29	995·8	995·5	995·2	994·8	994·4	994·0	993·6	993·0	992·6	992·5	992·8	992·5	991·7	990·8	990·4	990·0	989·5	989·5	990·0	990·3	991·0	991·5	991·8	991·6	**992·4**
30	991·8	991·8	991·8	991·9	992·2	992·8	993·6	994·1	994·7	995·0	995·4	995·6	995·7	995·8	995·9	996·3	996·7	996·9	997·2	997·4	997·7	998·0	998·0	998·2	995·1
31	998·3	998·4	998·4	998·5	998·7	999·0	999·2	999·7	000·2	000·4	000·7	001·0	001·1	001·7	002·2	002·3	002·6	003·3	003·7	003·9	004·8	005·5	005·9	006·4	001·3
Mean (Station Level)	1005·57	1005·38	1005·22	1005·08	**1005·02**	1005·17	1005·30	1005·48	1005·55	1005·56	1005·60	**1005·62**	1005·54	1005·47	1005·33	1005·20	1005·10	1005·03	1005·12	1005·23	1005·50	1005·53	1005·48	1005·39	1005·36
Mean (Sea Level)	1007·23	1007·04	1006·88	1006·74	**1006·68**	1006·83	1006·96	1007·13	1007·20	1007·21	1007·25	**1007·26**	1007·18	1007·11	1006·97	1006·84	1006·74	**1006·68**	1006·77	1006·88	1007·15	1007·18	1007·14	1007·05	1007·01

348. Cahirciveen (Valentia Observatory) : H_b = 13·7 metres. **June, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day. (Station Level)	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	006·6	007·1	007·4	007·6	007·9	008·4	008·7	009·2	009·6	009·8	010·0	010·1	010·2	010·2	010·4	010·4	010·7	010·8	011·0	011·3	011·4	011·7	011·4	011·2	009·6
2	010·9	010·5	010·0	009·7	009·6	009·7	010·0	010·1	010·3	010·5	010·6	010·5	010·8	010·9	011·2	011·1	011·1	011·0	011·2	011·3	011·7	012·1	012·5	012·9	010·8
3	012·9	012·9	012·8	012·8	013·0	013·3	013·6	014·0	014·1	014·3	013·7	013·7	013·9	013·8	013·2	012·8	012·1	011·8	011·3	010·9	010·6	010·3	010·3	010·1	012·7
4	009·7	009·2	009·1	008·9	008·9	008·8	008·4	008·3	008·1	007·1	006·8	007·0	006·5	006·6	006·4	005·9	007·0	004·9	005·0	005·5	005·5	005·8	006·0	006·0	007·2
5	005·7	005·5	005·4	005·5	005·6	006·0	006·1	006·4	006·3	006·2	006·2	006·1	006·2	005·8	005·5	005·2	004·9	004·5	004·2	003·9	003·9	003·9	003·7	003·6	005·3
6	003·3	003·2	003·2	003·0	003·0	003·0	002·8	002·8	003·0	003·1	003·4	003·4	003·7	003·7	003·6	003·7	003·7	003·6	003·7	003·7	003·7	003·6	003·4	002·9	003·4
7	002·4	001·9	001·4	000·8	000·4	000·3	000·3	000·3	000·1	999·9	999·8	999·8	999·2	999·2	999·7	000·2	000·6	000·8	001·2	001·6	002·0	002·3	002·6	002·8	000·8
8	002·7	002·7	002·8	003·0	003·3	003·4	003·8	004·2	004·4	004·8	005·1	005·4	005·7	005·7	005·6	005·4	005·4	005·1	004·8	004·6	004·2	003·4	002·8	001·9	004·2
9	000·8	000·1	999·3	999·0	999·2	999·5	999·8	000·2	000·6	000·9	001·1	001·2	001·7	001·8	002·0	002·3	002·3	002·6	002·5	002·6	002·8	002·5	002·1	001·3	001·2
10	000·4	999·1	998·2	997·6	997·2	996·8	996·6	996·6	996·7	996·7	996·8	996·8	996·8	997·0	997·4	998·2	999·5	000·8	001·9	003·0	003·9	005·3	006·1	006·6	**999·3**
11	006·8	007·2	007·2	007·5	007·7	008·0	008·2	008·3	008·0	008·3	008·2	007·9	007·7	007·6	007·7	007·9	008·0	008·3	008·7	009·5	010·0	010·5	011·0	011·2	008·3
12	011·8	012·2	012·4	012·9	013·5	014·1	014·7	015·2	015·8	016·2	016·5	017·0	017·2	017·5	017·8	018·1	018·4	018·4	018·5	018·6	018·9	018·9	018·8	018·3	016·2
13	017·9	017·6	016·8	016·5	016·4	015·8	015·3	015·0	014·0	014·1	013·7	013·1	012·5	011·5	010·7	009·9	009·6	008·5	007·6	006·8	006·2	005·4	004·4	003·7	012·1
14	002·4	001·4	000·2	999·7	999·0	998·8	998·7	998·8	999·8	000·0	000·7	001·9	002·2	003·1	004·1	004·8	005·5	006·2	006·8	007·5	008·2	009·0	009·4	009·7	003·1
15	009·7	009·5	009·4	009·1	009·0	008·7	008·2	007·8	007·2	006·3	005·8	004·9	004·3	003·7	003·6	003·5	003·4	003·0	002·9	003·4	003·2	003·0	003·0	003·0	005·8
16	002·9	002·9	003·3	003·5	004·0	004·7	005·4	005·9	006·1	006·6	007·1	007·5	007·9	007·9	008·0	007·8	007·8	007·9	007·9	007·8	007·8	007·8	007·9	007·7	006·3
17	007·4	007·3	007·3	007·3	007·4	008·0	008·4	008·8	009·3	009·6	010·0	010·3	010·6	011·1	011·4	011·5	011·7	012·0	012·2	012·3	012·4	012·6	012·5	012·2	010·1
18	011·7	011·3	011·0	010·6	010·1	009·7	009·4	008·4	007·9	007·0	006·8	006·7	006·1	005·5	004·7	004·3	003·8	002·9	002·3	001·7	001·7	001·9	002·1	002·6	006·5
19	002·9	003·5	004·1	004·8	005·8	006·9	008·3	009·3	010·2	011·2	012·3	013·1	014·0	014·6	015·1	016·0	016·5	017·5	018·4	019·2	019·8	020·7	021·2	021·5	012·4
20	021·7	022·2	022·5	023·0	023·5	023·7	024·2	024·7	025·0	025·2	025·5	025·7	025·7	025·7	025·7	025·6	025·5	025·4	025·5	025·5	025·5	025·4	025·4	025·3	024·6
21	025·0	024·9	024·9	024·8	024·8	024·9	025·1	025·5	025·6	025·5	025·4	025·3	025·2	024·8	024·8	024·5	024·6	024·5	024·6	024·7	024·8	024·9	024·7	024·3	024·9
22	024·2	023·6	023·5	023·3	023·2	023·0	023·1	023·2	023·4	023·2	023·1	023·0	022·9	022·8	022·6	022·3	022·2	022·1	021·9	021·9	021·8	021·7	021·7	021·5	022·8
23	021·1	020·7	020·1	019·8	019·5	019·4	019·3	019·3	019·3	019·2	019·2	019·2	019·2	019·0	018·3	018·3	018·1	017·9	017·9	017·7	017·7	017·6	017·5	017·3	018·9
24	016·9	016·7	016·6	016·7	016·9	017·3	017·6	018·2	018·4	018·5	018·9	019·2	019·4	019·5	020·0	020·5	020·9	021·2	021·7	022·1	022·6	023·1	023·3	023·3	019·4
25	023·2	023·7	023·9	024·0	024·2	024·5	024·8	025·2	025·4	025·8	026·0	026·2	026·2	026·2	026·4	026·3	026·2	026·3	026·3	026·5	026·7	026·9	026·7	026·4	025·5
26	026·2	026·0	025·9	025·7	025·8	026·1	026·1	026·4	026·5	026·5	026·8	026·4	026·4	026·4	026·3	026·2	025·9	026·0	026·0	026·2	026·3	026·5	026·2	026·2	026·2
27	025·9	025·6	025·5	025·5	025·5	025·6	025·8	026·0	026·1	026·1	026·4	026·5	026·4	026·8	027·0	026·8	026·6	026·4	026·5	026·5	026·3	026·4	026·1	026·0	026·2
28	025·8	025·6	025·6	025·6	025·8	025·9	026·1	026·4	026·4	026·6	026·8	027·0	027·2	027·0	026·8	026·6	026·7	026·8	026·8	026·8	027·0	027·1	027·0	026·9	026·5
29	026·9	027·0	026·9	026·8	026·8	027·0	027·2	027·4	027·6	027·7	027·7	027·5	027·6	027·4	027·4	026·9	026·9	026·8	026·5	026·7	026·6	026·4	026·2	025·6	**027·0**
30	025·3	024·9	024·6	024·2	024·2	023·9	023·5	023·5	023·2	022·9	022·5	022·3	021·9	021·8	021·4	021·1	020·8	020·3	019·9	019·6	019·7	019·7	019·5	019·3	022·2
Mean (Station Level)	1013·04	1012·87	1012·71	**1012·64**	1012·71	1012·84	1012·98	1013·18	1013·28	1013·33	1013·43	1013·49	1013·51	1013·49	1013·49	1013·47	1013·55	1013·48	1013·52	1013·65	1013·76	**1013·88**	1013·85	1013·71	1013·32
Mean (Sea level)	1014·70	1014·53	1014·37	**1014·30**	1014·36	1014·50	1014·64	1014·83	1014·93	1014·98	1015·08	1015·14	1015·16	1015·14	1015·14	1015·12	1015·20	1015·13	1015·17	1015·30	1015·41	**1015·54**	1015·51	1015·37	1014·97
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1001·7 mb. is written 001·7. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

349. Cahirciveen (Valentia Observatory) : H_b (height of barometer cistern above M.S.L.) = 13·7 metres. **July, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Station Level Day.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	019·1	018·6	018·2	018·0	017·8	017·9	018·0	018·1	017·6	017·4	017·4	017·3	016·9	016·5	015·9	015·2	014·6	014·3	013·8	013·0	012·2	011·6	011·2	010·4	016·1
2	009·9	009·6	009·2	009·4	009·3	009·7	009·8	010·0	010·2	010·3	010·4	010·2	010·2	010·2	010·2	010·3	009·8	009·6	009·4	008·8	008·2	007·9	007·4	006·6	009·5
3	005·9	005·0	004·3	003·1	002·3	002·0	001·5	001·2	000·9	001·1	001·2	001·1	000·9	000·6	000·3	999·9	999·5	998·8	998·5	998·4	998·1	998·0	998·0	997·7	000·9
4	997·5	997·6	997·3	997·5	997·5	997·8	997·8	998·2	998·5	998·9	999·1	999·5	999·7	999·8	000·2	000·8	000·9	000·8	001·1	001·4	001·6	001·7	001·6	001·4	999·4
5	001·1	001·2	001·2	001·2	001·5	001·9	002·3	002·7	003·0	003·2	003·8	004·4	004·9	005·3	005·7	006·5	006·8	007·2	007·4	007·9	008·4	008·6	008·6	008·7	004·6
6	008·7	008·8	008·5	008·5	008·8	009·0	009·4	009·9	010·2	010·3	010·4	010·6	010·5	010·6	010·7	010·7	010·8	011·0	011·5	011·8	012·4	012·5	012·6	012·6	010·4
7	012·4	012·4	012·3	012·5	012·8	013·1	013·4	013·7	013·7	013·6	013·5	013·7	013·7	013·5	013·4	013·3	013·2	013·1	013·0	013·0	013·0	012·9	012·9	012·4	013·1
8	011·9	011·5	011·1	010·8	010·7	010·5	010·4	010·3	010·2	010·0	009·8	009·8	009·4	009·4	009·1	008·9	008·8	008·9	008·6	008·5	008·6	008·7	008·5	008·3	009·8
9	008·0	008·0	007·8	007·7	007·8	007·8	008·0	008·2	008·1	008·0	008·1	008·1	007·9	008·1	008·0	007·8	007·8	007·4	007·6	007·5	007·6	007·5	007·3	006·9	007·8
10	006·7	006·6	006·4	006·3	006·5	006·7	006·9	007·3	007·6	007·9	008·4	008·8	009·0	009·0	009·2	009·3	009·5	009·8	009·9	010·4	010·8	011·0	011·2	011·1	008·5
11	011·1	010·9	010·8	010·7	010·8	010·9	011·0	010·9	010·7	010·4	009·8	009·0	008·3	007·7	007·2	006·5	005·7	004·6	003·8	003·5	003·5	003·7	003·4	003·4	008·0
12	003·3	003·4	003·2	002·8	002·7	002·5	002·6	002·6	002·5	002·4	002·1	002·2	002·2	002·2	002·2	002·1	002·0	002·1	002·4	002·6	002·7	002·9	003·0	002·8	002·6
13	002·6	002·5	002·0	001·8	001·6	001·5	001·4	001·3	001·3	001·2	001·0	000·8	000·5	000·0	999·6	999·3	999·2	999·0	998·9	999·1	999·2	999·2	999·1	999·1	000·5
14	998·8	998·7	998·2	998·0	997·9	997·8	997·9	998·0	998·0	998·1	998·2	998·2	998·3	998·3	998·3	998·6	998·8	999·1	999·6	000·2	000·8	001·4	001·6	002·0	998·9
15	002·3	002·6	002·9	003·6	004·3	004·9	005·6	006·1	006·7	007·3	007·9	008·8	009·3	009·8	010·5	010·8	011·0	011·4	011·7	011·9	012·4	012·8	012·9	013·0	008·1
16	013·0	013·1	013·3	013·2	013·3	013·5	013·8	014·2	014·3	014·3	014·6	014·9	015·1	015·4	015·5	015·2	015·5	015·7	015·6	016·1	016·3	016·6	016·6	016·3	014·7
17	016·0	015·5	014·9	014·4	013·5	012·7	011·8	010·9	010·1	009·6	009·1	008·7	008·4	008·7	008·9	009·4	009·8	010·0	010·3	010·7	011·3	011·4	011·7	011·7	011·3
18	011·6	011·4	011·5	011·4	011·3	011·2	010·9	011·0	010·7	010·3	010·2	010·0	009·8	009·7	009·6	009·3	009·5	009·6	009·7	010·4	010·9	011·4	011·5	011·7	010·6
19	011·5	011·6	011·5	011·3	011·1	011·2	011·3	011·5	011·4	011·3	011·4	011·5	011·6	011·5	011·8	012·3	012·6	013·0	013·4	013·9	014·6	015·1	015·8	016·2	012·3
20	016·7	016·8	017·1	017·4	017·8	018·5	019·0	019·6	020·0	020·5	020·9	020·9	021·1	021·4	021·4	021·4	021·2	021·3	021·4	021·6	022·2	022·3	022·3	022·1	**020·1**
21	021·9	021·5	021·3	020·9	021·0	020·9	020·9	020·8	020·5	020·2	020·0	020·2	020·2	019·7	019·4	019·3	019·1	018·8	018·5	018·4	018·2	017·7	017·3	016·8	019·8
22	016·1	015·2	014·0	013·6	013·0	012·6	012·1	011·6	011·0	010·3	009·7	008·9	008·3	008·4	008·2	008·4	008·5	008·5	008·7	009·0	009·4	009·6	009·6	009·6	010·7
23	009·7	009·7	009·4	009·5	009·5	009·8	010·2	010·4	010·5	010·5	010·5	010·6	010·7	010·6	010·4	010·4	010·1	009·8	009·6	009·4	009·0	008·4	007·8	007·1	009·8
24	006·2	005·2	004·1	003·3	002·7	001·5	000·4	999·6	998·6	997·5	996·6	996·4	996·1	995·6	995·2	994·6	994·3	993·9	994·2	994·5	994·7	994·7	994·8	995·0	**998·2**
25	995·4	995·8	996·3	996·9	997·6	998·5	999·4	000·0	000·5	001·1	001·4	001·6	001·9	001·9	001·8	001·6	001·6	001·5	001·6	001·5	001·8	001·5	001·1	001·0	000·0
26	000·7	000·2	999·6	999·3	999·4	999·5	999·8	000·0	000·0	000·3	000·7	000·9	001·1	001·2	001·2	001·5	001·7	001·8	002·2	002·5	002·8	003·1	003·1	003·4	001·0
27	003·5	003·6	003·6	003·6	004·3	005·1	006·1	006·7	007·3	007·8	008·2	009·1	009·7	010·0	010·9	011·2	011·5	012·2	012·5	012·9	013·6	014·1	014·6	014·9	008·8
28	015·1	015·1	015·2	015·2	015·7	016·0	016·3	016·9	017·0	017·3	017·4	017·9	018·2	018·5	018·4	018·5	018·3	018·2	018·2	017·9	017·7	017·2	016·7	016·1	017·0
29	015·2	014·6	013·7	012·6	012·0	011·6	010·9	010·5	010·0	009·4	009·1	009·1	008·9	008·7	008·6	008·3	008·1	008·2	008·4	008·6	008·6	008·7	008·6	008·7	010·2
30	009·0	008·8	008·7	008·8	009·0	009·1	009·6	010·0	010·2	010·3	010·3	010·2	010·6	010·6	010·7	010·2	010·1	010·3	010·2	010·3	010·0	009·8	009·4	009·2	009·8
31	008·9	008·3	007·8	007·8	007·5	007·2	007·3	007·4	007·4	007·3	007·4	007·5	007·6	007·7	007·9	008·0	008·0	008·4	008·8	009·3	009·9	010·3	010·6	010·8	008·3
Mean (Station Level)	1008 ·70	1008 ·51	1008 ·24	1008 ·10	**1008 ·10**	1008 ·16	1008 ·25	1008 ·37	1008 ·35	1008 ·33	1008 ·34	1008 ·42	1008 ·42	1008 ·41	1008 ·40	1008 ·37	1008 ·33	1008 ·33	1008 ·40	1008 ·55	1008 ·73	**1008 ·78**	1008 ·73	1008 ·61	1008 ·42
Mean (Sea Level)	1010 ·34	1010 ·16	1009 ·89	1009 ·75	**1009 ·75**	1009 ·81	1009 ·89	1010 ·01	1009 ·99	1009 ·97	1009 ·97	1010 ·05	1010 ·05	1010 ·04	1010 ·03	1010 ·00	1009 ·96	1009 ·96	1010 ·04	1010 ·19	1010 ·37	**1010 ·42**	1010 ·37	1010 ·25	1010 ·06

350. Cahirciveen (Valentia Observatory) : H_b = 13·7 metres. **August, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Station Level Day.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	010·9	011·2	011·1	011·3	011·7	012·2	012·5	013·1	013·1	013·5	013·7	014·0	014·3	014·4	014·7	014·8	015·2	015·5	016·0	016·5	017·0	017·0	017·0	017·3	013·9
2	017·5	017·4	017·5	017·6	017·7	018·0	018·4	018·6	019·0	019·3	019·7	019·8	019·9	020·2	020·3	020·4	020·6	020·7	021·0	021·7	022·5	023·0	022·8	023·0	019·7
3	023·1	023·1	023·0	022·9	023·2	023·6	023·7	023·8	023·9	023·9	023·9	024·0	024·1	023·8	023·8	023·8	023·7	023·8	024·0	023·9	024·2	024·0	024·3	024·4	023·7
4	024·3	023·9	023·4	023·3	023·2	023·0	022·9	022·5	022·2	022·0	021·5	021·3	021·0	020·7	020·5	020·0	019·8	019·7	019·8	020·1	020·4	020·1	019·8	019·7	021·6
5	019·2	018·6	018·2	017·5	017·2	017·0	016·7	016·5	016·1	015·8	015·8	015·7	015·3	014·9	014·9	014·9	014·8	014·8	015·1	015·4	015·5	015·8	015·8	015·9	016·2
6	016·0	015·9	015·7	015·8	016·0	016·1	016·4	016·5	016·9	016·9	017·3	017·2	017·0	017·3	017·2	017·3	017·2	017·3	017·6	017·8	018·0	017·7	017·5	017·4	016·9
7	017·2	017·1	016·6	016·1	015·9	015·7	015·4	015·2	014·8	014·4	014·2	013·7	012·8	012·0	011·2	010·8	010·2	009·4	008·9	008·5	008·4	008·0	007·9	007·8	012·8
8	007·8	007·4	007·1	007·3	007·9	008·8	009·4	009·9	010·6	011·1	011·2	011·4	011·2	011·6	012·0	012·6	013·1	013·9	014·7	015·1	016·1	016·9	017·3	017·7	011·5
9	017·7	017·6	017·7	017·5	017·7	017·9	018·2	018·5	018·7	018·8	019·2	019·4	019·6	020·0	020·1	020·3	020·7	021·0	021·2	021·4	021·8	021·8	021·8	021·9	019·5
10	021·8	021·6	021·4	021·4	021·6	022·0	022·2	022·6	022·7	022·8	022·9	023·0	023·5	023·8	023·9	024·3	024·5	024·6	024·9	025·4	026·1	026·5	026·6	026·9	023·5
11	027·0	027·3	027·4	027·6	027·9	028·3	028·5	029·0	029·0	029·2	029·5	029·8	029·9	029·8	030·0	029·9	029·6	029·5	029·4	029·5	029·6	029·4	029·1	028·8	**029·0**
12	028·6	028·2	027·7	027·1	026·8	026·6	026·3	026·1	025·8	025·0	024·7	024·1	023·5	023·0	022·3	021·6	021·2	020·5	019·7	019·3	019·2	018·4	017·6	016·4	023·6
13	015·7	015·0	013·7	013·3	012·1	011·3	010·5	009·7	008·5	007·8	006·8	005·5	004·9	003·4	002·1	001·2	000·3	999·0	997·7	996·4	995·3	993·5	992·1	990·2	005·0
14	989·5	988·9	988·3	988·2	988·7	989·7	990·4	991·1	991·4	991·7	992·3	992·3	992·2	992·0	991·9	991·6	991·3	990·8	990·6	990·3	990·0	989·6	988·9	988·1	990·5
15	987·2	986·3	985·2	983·4	983·4	983·3	983·2	983·4	983·3	983·1	982·9	982·5	982·3	981·7	981·1	980·2	979·9	979·5	979·1	978·7	978·7	978·5	978·0	977·6	**982·0**
16	977·1	976·9	976·8	977·4	977·8	978·2	979·5	980·8	982·0	983·7	985·5	986·8	987·9	989·3	990·6	992·0	993·0	994·2	995·1	996·2	997·4	998·4	999·3	000·3	986·9
17	001·2	001·8	002·3	002·8	003·3	003·9	004·5	005·0	005·6	006·1	006·5	006·8	007·1	007·2	007·3	007·3	007·2	007·3	007·4	007·6	007·9	008·0	008·0	008·0	005·7
18	008·0	007·8	007·6	007·5	007·4	007·7	007·6	007·8	007·7	007·7	007·7	007·2	006·7	006·3	005·6	004·8	004·4	003·1	001·8	001·2	999·9	997·5	996·9	994·5	004·5
19	992·3	990·3	989·4	988·6	988·1	987·6	987·1	986·7	986·3	986·1	986·5	987·1	987·6	988·2	988·9	989·6	990·3	990·5	990·9	991·0	991·2	991·0	990·9	990·7	989·1
20	990·9	991·2	991·4	991·2	991·4	992·0	992·9	993·9	994·9	995·8	997·1	998·3	999·4	000·4	001·1	002·2	003·4	004·3	005·3	006·6	007·6	008·4	008·6	00·90	998·7
21	009·3	009·5	009·5	009·8	009·7	010·1	010·6	010·8	011·0	011·4	011·6	011·6	011·8	011·7	011·6	011·7	011·8	011·7	011·6	011·5	011·4	011·3	011·4	011·2	010·9
22	010·9	010·7	010·3	010·1	009·9	010·1	010·1	010·0	010·0	010·1	010·0	010·1	010·0	009·7	009·3	009·3	009·3	009·2	009·3	009·5	009·7	009·5	009·4	009·4	009·9
23	009·2	008·8	008·5	008·1	007·9	007·7	007·7	007·8	007·6	007·5	007·1	006·7	006·4	005·9	005·1	004·5	004·2	004·0	003·7	003·5	003·3	002·9	002·5	002·2	006·1
24	001·8	001·6	001·0	000·4	000·5	000·5	000·8	001·2	001·7	002·2	002·6	002·9	003·3	003·7	004·1	004·5	005·4	006·4	007·4	008·7	009·7	010·4	010·9	011·6	004·1
25	012·6	013·2	013·4	013·6	014·2	015·1	015·9	016·5	017·3	017·9	018·1	018·7	019·1	019·5	019·8	020·2	020·6	020·8	021·4	022·0	022·4	022·9	023·0	023·1	018·1
26	023·1	023·0	022·8	022·7	022·9	022·9	023·0	022·9	022·7	022·6	022·4	022·2	022·0	021·7	021·5	021·2	021·0	020·5	020·6	019·9	019·2	018·7	019·2	017·9	021·6
27	018·3	018·5	018·5	018·1	017·6	017·1	016·6	017·0	016·8	016·6	016·9	016·4	017·1	017·2	016·6	016·1	016·4	015·9	016·1	015·8	015·9	016·0	016·6	016·5	016·9
28	016·0	015·7	015·2	015·0	014·7	014·6	014·7	014·7	014·9	015·1	014·6	015·3	015·1	014·9	014·7	014·7	014·7	014·6	014·9	015·0	015·4	015·5	015·2	014·9	015·0
29	014·8	014·6	014·6	014·4	013·9	014·0	014·3	014·6	014·4	014·6	014·7	015·2	015·2	015·1	015·1	015·3	015·5	015·8	016·2	016·5	016·7	016·8	016·7	016·9	015·2
30	016·7	016·6	016·3	016·3	016·4	016·4	016·6	016·9	017·2	017·3	017·5	017·5	017·4	017·3	017·1	017·1	017·1	016·9	017·0	017·1	017·5	017·5	017·5	017·5	017·0
31	017·1	016·9	017·0	016·8	016·4	016·2	016·4	016·7	016·3	016·3	016·4	016·1	015·5	015·5	015·1	014·6	014·3	014·1	013·8	013·6	013·5	013·2	012·5	011·9	015·4
Mean (Station Level)	1011 ·06	1010 ·86	1010 ·60	**1010 ·42**	**1010 ·42**	1010 ·57	1010 ·74	1010 ·96	1011 ·05	1011 ·17	1011 ·32	1011 ·37	1011 ·39	1011 ·36	1011 ·27	1011 ·25	1011 ·31	1011 ·27	1011 ·36	1011 ·47	**1011 ·66**	1011 ·55	1011 ·45	1011 ·25	1011 ·13
Mean (Sea Level)	1012 ·70	1012 ·50	1012 ·24	**1012 ·07**	**1012 ·07**	1012 ·22	1012 ·38	1012 ·60	1012 ·69	1012 ·81	1012 ·95	1013 ·00	1013 ·02	1012 ·99	1012 ·90	1012 ·88	1012 ·94	1012 ·90	1012 ·99	1013 ·11	**1013 ·30**	1013 ·19	1013 ·09	1012 ·89	1012 ·77
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1001·7 mb. is written 001·7. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

351. Cahirciveen (Valentia Observatory) : H_b (height of barometer cistern above M.S.L.) = 13·7 metres. **September, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	011·1	010·5	009·4	008·6	008·2	008·1	007·6	007·5	006·8	006·7	006·3	005·6	005·3	005·0	004·8	003·9	003·4	002·8	002·2	001·9	001·9	001·7	001·5	001·2	005·7
2	000·6	999·8	999·1	998·8	998·1	998·0	997·8	997·1	997·1	996·8	996·7	996·7	996·6	996·3	995·7	995·5	995·4	995·4	995·2	995·4	995·4	995·3	995·1	995·0	**996·9**
3	994·8	994·8	994·8	994·7	994·8	995·1	995·5	996·1	996·9	997·8	998·2	998·9	999·8	000·2	000·5	000·9	001·1	001·3	001·5	002·2	002·7	002·9	003·0	003·1	998·6
4	003·1	003·4	003·5	003·8	004·3	004·9	005·4	006·1	006·6	007·3	007·4	007·9	008·3	008·6	009·2	009·3	010·3	010·9	011·4	012·2	012·8	013·1	013·3	013·6	008·0
5	013·4	013·9	014·4	014·6	014·8	015·2	015·6	016·0	016·9	017·3	017·8	018·2	018·5	018·7	019·1	019·2	019·6	020·0	020·5	020·9	021·2	021·5	021·6	021·7	017·8
6	021·8	021·7	021·6	021·6	021·7	022·0	022·5	022·7	023·0	023·2	023·1	023·2	023·3	023·1	022·9	022·6	022·6	022·7	022·9	023·0	023·1	023·1	023·1	023·1	022·6
7	022·6	022·4	022·3	022·3	022·2	022·5	022·7	022·8	022·9	022·9	022·6	022·4	022·2	021·9	021·7	021·4	021·3	021·5	021·6	021·9	022·0	021·9	021·7	021·6	022·2
8	021·5	021·3	020·9	020·7	020·6	020·8	020·8	020·5	020·7	020·6	020·5	020·2	019·9	019·4	019·0	018·7	018·6	018·6	018·6	018·8	019·1	019·1	018·9	018·9	019·9
9	019·0	018·8	018·5	018·2	018·0	018·0	018·1	018·2	018·3	018·4	018·4	018·4	018·3	018·2	018·1	018·2	018·2	018·3	018·6	019·1	019·3	019·4	019·4	019·3	018·5
10	019·3	019·2	019·0	019·0	019·4	019·6	020·1	020·5	021·1	021·3	021·5	021·5	021·7	021·9	021·9	022·0	022·3	022·6	023·1	023·8	023·8	024·0	024·4	024·3	021·5
11	024·4	024·3	024·4	024·2	024·3	024·7	025·2	025·3	025·4	025·5	025·2	025·1	025·0	024·9	024·8	024·3	023·8	023·2	023·4	023·7	023·1	022·2	021·1	020·4	024·2
12	020·1	019·1	018·2	017·8	017·7	017·4	017·3	017·2	017·3	017·5	017·8	017·9	018·1	018·6	018·9	019·2	019·7	020·4	021·1	022·0	022·8	023·1	023·6	024·2	019·4
13	024·6	025·0	025·2	025·1	025·4	025·8	026·3	027·0	027·4	027·5	027·6	027·6	027·8	027·7	027·5	027·4	027·8	028·0	028·3	028·8	028·9	028·8	028·7	028·8	027·1
14	028·5	028·4	028·3	028·2	028·0	028·1	028·3	028·8	029·2	029·1	028·9	028·9	029·0	029·1	028·9	028·7	028·6	028·7	028·8	028·9	029·0	029·0	029·1	029·1	028·7
15	029·1	028·9	028·6	028·5	028·4	028·5	028·9	029·3	029·6	029·7	029·6	029·3	029·2	028·8	028·4	027·9	027·7	027·7	027·6	027·9	027·7	027·7	027·3	027·1	028·5
16	026·8	026·1	025·7	024·9	024·5	024·3	024·5	024·6	024·3	024·3	024·1	023·7	023·5	023·1	022·7	022·4	021·6	021·5	021·4	021·3	021·4	021·2	021·1	020·6	023·5
17	020·2	019·8	019·5	019·4	019·5	019·7	019·9	020·0	020·1	020·3	020·5	020·6	020·7	020·8	020·9	020·8	020·8	021·0	021·3	021·9	022·4	022·5	022·8	022·9	020·7
18	022·9	023·0	023·1	023·1	023·3	023·9	024·3	024·8	025·1	025·6	025·9	025·8	025·8	026·0	025·8	026·0	026·3	026·9	027·5	027·8	028·0	028·1	028·4	028·5	025·5
19	028·6	028·6	028·6	028·9	029·0	029·3	029·9	030·5	031·0	031·3	031·5	031·4	031·5	031·6	031·6	031·5	031·8	032·1	032·5	033·0	033·3	033·6	033·8	033·9	031·1
20	034·0	034·0	034·0	034·3	034·4	034·9	035·3	035·4	035·8	035·8	036·1	036·1	036·1	035·7	035·4	035·2	035·1	035·4	035·5	035·9	036·0	035·8	036·0	035·7	035·3
21	035·3	035·1	034·8	034·4	034·3	034·1	034·0	033·8	033·5	033·3	033·5	033·2	032·7	032·2	032·0	031·9	031·6	031·2	031·3	031·6	032·0	031·9	031·9	031·8	033·1
22	031·8	031·8	031·7	031·3	031·4	031·4	031·5	031·7	031·6	031·7	031·6	031·5	031·2	030·4	030·0	029·9	029·8	030·0	030·0	030·5	030·6	030·4	030·3	030·2	031·0
23	030·1	029·9	029·6	029·4	029·3	029·2	029·3	029·4	029·6	029·5	029·3	029·2	028·8	028·4	028·2	028·1	028·0	028·3	028·4	028·7	028·8	028·7	029·0	028·9	029·0
24	029·0	029·2	029·2	029·2	029·2	029·5	030·1	030·3	030·6	030·8	031·0	031·1	031·1	031·1	031·3	031·3	031·8	032·3	032·8	033·1	033·1	033·3	033·7	033·7	031·1
25	034·1	034·2	034·4	034·4	034·4	034·6	035·0	035·1	035·4	035·5	035·5	035·6	035·5	035·3	035·3	035·3	035·3	035·5	035·7	036·1	036·1	036·2	036·3	036·2	035·2
26	036·0	036·0	035·6	035·2	035·3	035·5	035·6	035·8	036·0	036·2	036·1	036·0	035·7	035·4	035·1	034·8	034·8	034·6	034·9	035·1	035·1	034·8	034·5	034·3	**035·4**
27	033·8	033·3	032·9	032·5	032·3	032·5	032·5	032·2	031·8	031·5	031·0	030·7	030·2	029·4	028·7	028·5	028·0	027·7	027·8	027·7	027·4	026·9	026·5	026·1	030·3
28	025·9	025·4	024·9	024·5	024·3	024·0	023·9	024·1	023·9	023·6	023·3	023·1	022·8	022·4	022·1	021·7	021·4	021·3	021·4	021·3	021·1	020·6	020·0	019·4	022·9
29	019·0	018·5	017·8	017·2	016·5	016·2	015·4	014·4	014·6	014·5	013·5	012·7	011·9	010·8	009·8	008·9	007·9	006·6	006·0	005·1	004·0	003·0	001·8	001·1	011·5
30	001·1	001·3	001·2	001·4	001·7	002·1	002·6	003·0	003·4	003·8	004·4	004·6	005·0	005·2	005·6	005·7	006·3	007·0	007·4	008·1	008·3	009·0	009·0	009·0	004·7
Mean (Station Level)	1022·08	1021·92	1021·71	1021·54	**1021·51**	1021·66	1021·86	1022·01	1022·20	1022·31	1022·30	1022·24	1022·18	1022·01	1021·86	1021·71	1021·70	1021·78	1021·96	1022·26	**1022·35**	1022·29	1022·23	1022·12	1021·99
Mean (Sea Level)	1023·75	1023·59	1023·38	1023·21	**1023·18**	1023·33	1023·53	1023·68	1023·86	1023·96	1023·95	1023·89	1023·83	1023·66	1023·51	1023·36	1023·35	1023·43	1023·61	1023·92	**1024·01**	1023·95	1023·89	1023·79	1023·65

(Days are Station Level readings.)

352. Cahirciveen (Valentia Observatory) : H_b = 13·7 metres. **October, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	008·8	008·5	008·5	008·8	008·8	008·8	008·2	008·1	008·0	008·1	008·4	008·2	007·9	008·0	008·0	007·9	007·9	008·3	008·8	009·1	009·8	009·9	010·0	009·8	008·6
2	009·7	009·3	009·2	009·2	009·4	010·0	011·3	011·7	013·9	015·0	015·6	016·8	017·6	018·1	018·5	018·9	019·7	020·4	021·1	021·9	022·4	022·8	022·9	023·4	015·9
3	024·2	024·2	024·2	024·5	024·0	024·5	025·0	025·3	025·5	025·6	025·3	024·4	024·1	023·9	023·0	022·5	022·2	022·3	022·4	022·5	022·3	022·0	021·8	021·6	023·7
4	021·5	021·1	020·8	020·7	020·7	020·8	020·9	021·2	021·5	021·3	021·1	020·5	020·2	019·6	019·4	019·2	018·9	018·8	018·8	018·9	018·9	018·6	018·2	018·1	020·1
5	017·8	017·3	017·1	016·7	016·6	016·2	016·1	016·3	016·5	016·4	016·3	015·9	015·3	014·6	014·1	013·2	012·8	012·4	012·2	011·6	010·7	009·7	009·0	008·1	014·5
6	007·5	006·7	005·5	004·9	004·3	003·3	002·8	002·1	001·8	002·4	002·9	002·4	002·2	002·3	002·2	002·3	002·3	002·9	003·3	003·6	003·8	004·1	004·0	004·3	003·6
7	004·1	003·8	003·7	003·6	004·0	004·8	005·2	006·4	006·8	007·4	008·0	008·5	009·1	009·7	010·1	010·3	011·0	011·4	012·4	013·0	013·2	013·1	013·0	013·2	008·4
8	013·4	013·8	013·8	013·8	014·0	014·4	014·7	014·8	015·1	015·1	015·0	014·8	014·5	013·8	013·1	012·7	012·2	011·8	011·8	011·5	010·9	010·2	009·6	008·8	013·2
9	007·9	007·3	007·0	006·4	006·1	006·0	006·0	006·1	006·3	006·6	008·4	008·9	009·3	009·8	010·4	011·2	012·1	013·1	014·4	015·2	016·2	017·3	017·8	018·4	010·1
10	018·9	019·5	019·7	020·3	020·8	021·3	022·1	022·6	022·9	023·4	023·7	023·8	023·8	023·7	023·5	023·4	023·4	023·5	023·8	023·9	023·9	024·0	024·1	023·8	022·5
11	023·9	023·7	023·6	023·3	023·2	023·3	023·3	023·5	023·5	023·6	023·6	023·5	023·2	022·9	022·4	022·0	021·4	021·1	020·7	020·4	020·0	019·3	018·5	018·0	022·3
12	017·0	016·6	015·8	014·7	013·8	013·0	012·5	011·9	011·6	011·2	010·7	011·6	012·1	012·0	012·8	013·5	014·2	015·0	016·0	017·0	017·8	018·8	019·7	020·5	014·5
13	020·9	021·6	022·1	022·8	023·6	024·3	025·3	025·9	026·6	027·3	027·7	028·2	028·6	029·1	029·0	029·6	030·0	030·6	031·3	031·9	032·3	032·9	033·6	033·7	027·6
14	034·1	034·2	034·2	034·4	034·9	035·1	035·3	035·7	036·2	036·4	036·3	036·2	036·2	035·9	035·6	035·4	035·2	035·3	035·6	035·7	035·6	035·7	035·8	035·6	**035·4**
15	035·5	035·1	034·3	033·7	033·2	033·0	032·9	033·0	033·0	032·8	032·6	032·2	031·3	030·9	030·6	030·0	030·1	030·2	030·1	030·2	030·1	029·8	029·6	029·4	031·9
16	029·1	028·5	028·5	028·1	027·9	027·6	027·7	027·9	027·8	027·8	028·1	028·0	027·6	027·0	026·4	026·2	026·3	026·3	026·4	026·4	026·2	026·2	026·3	026·4	027·3
17	026·4	026·2	025·9	025·9	026·0	026·2	026·3	026·7	026·9	026·7	026·6	026·6	026·4	026·4	026·4	026·5	026·5	026·8	027·1	027·4	027·6	027·6	027·4	027·2	026·6
18	027·2	027·0	026·5	026·3	026·5	026·4	026·7	027·5	027·7	027·6	027·5	027·3	027·1	026·5	026·5	026·5	026·6	026·8	027·0	026·9	027·0	026·8	026·7	026·4	026·9
19	026·3	026·0	025·5	025·3	024·9	025·0	025·0	025·2	025·1	025·0	025·1	025·0	024·7	024·1	023·8	023·4	023·5	023·5	023·5	023·2	023·3	023·1	023·0	022·6	024·5
20	022·3	022·0	021·6	021·6	021·6	021·7	022·0	022·1	022·3	022·5	022·6	022·7	022·8	022·7	023·1	023·5	023·4	023·4	023·5	023·7	023·7	023·9	024·2	024·3	022·8
21	024·2	023·7	023·5	023·0	022·5	022·2	022·1	022·1	021·9	021·5	021·0	020·4	019·8	019·2	019·1	018·8	018·7	018·6	018·1	017·5	017·2	016·8	016·4	015·6	020·3
22	015·3	014·9	014·4	013·6	012·8	012·3	011·8	011·7	011·3	010·7	010·3	009·5	008·7	008·0	007·6	007·0	006·7	006·6	006·2	005·8	005·3	004·9	004·7	004·1	009·6
23	003·3	002·5	001·8	001·4	000·9	000·1	000·3	000·5	000·5	000·4	000·2	999·9	999·7	999·7	999·5	999·4	999·4	999·5	000·0	000·2	000·2	000·3	000·5	001·0	**000·5**
24	001·3	002·1	002·1	002·5	002·9	003·3	004·1	005·0	006·1	006·6	007·3	007·7	007·9	008·2	008·5	008·9	009·4	010·1	010·6	011·2	011·8	012·4	012·9	013·4	007·1
25	013·7	014·1	014·1	014·4	014·5	014·8	015·5	016·5	017·0	017·5	018·0	018·2	018·3	018·3	018·4	018·8	019·5	020·3	021·1	021·7	022·2	022·7	023·2	023·5	018·0
26	023·7	023·7	023·6	023·7	024·0	024·1	024·3	024·7	025·0	025·1	025·1	024·9	024·6	024·4	024·0	023·9	023·8	024·1	024·1	024·0	024·0	024·2	024·0	023·8	024·2
27	023·4	023·2	022·7	022·3	022·0	022·1	021·8	021·9	021·8	021·5	021·3	021·3	020·8	020·5	020·2	020·1	019·9	020·1	020·0	019·9	020·0	019·9	019·7	019·5	021·2
28	019·3	019·0	018·7	018·6	018·5	018·3	018·3	019·1	019·4	019·7	020·2	020·4	020·5	020·5	020·7	021·1	021·3	021·7	022·0	022·1	022·2	022·4	022·4	022·4	020·3
29	022·3	022·3	022·2	022·2	022·0	021·9	022·1	022·4	022·4	022·2	022·1	021·9	021·3	020·9	020·6	020·4	020·3	020·4	020·5	020·3	020·3	020·1	020·1	020·0	021·3
30	019·8	019·8	019·7	019·8	020·0	020·3	020·4	021·0	021·3	021·5	021·7	021·8	021·9	022·0	021·9	021·9	022·1	022·4	022·7	022·7	022·8	022·6	022·3	021·8	021·4
31	021·6	021·3	021·2	021·1	021·2	021·4	021·5	021·7	021·8	022·1	022·0	021·5	021·2	021·0	020·8	020·5	020·3	020·3	020·1	019·9	019·7	019·6	018·9	018·4	020·9
Mean (Station Level)	1018·85	1018·68	1018·43	1018·31	**1018·25**	1018·27	1018·43	1018·73	1018·95	1019·07	1019·18	1019·13	1018·99	1018·83	1018·72	1018·68	1018·75	1018·97	1019·21	1019·33	1019·40	**1019·41**	1019·37	1019·26	1018·88
Mean (Sea Level)	1020·52	1020·35	1020·11	1019·99	**1019·93**	1019·95	1020·11	1020·41	1020·62	1020·74	1020·85	1020·79	1020·65	1020·49	1020·38	1020·34	1020·42	1020·64	1020·88	1021·00	1021·07	**1021·08**	1021·04	1020·93	1020·55
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

353. Cahirciveen (Valentia Observatory) : H_b (height of barometer cistern above M.S.L.) = 13·7 metres. **November, 1931.**

Hour, G.M.T. / Station Level, Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	018·1	017·4	016·7	016·0	015·4	014·9	014·6	015·0	014·7	014·3	014·0	013·6	013·0	012·6	012·1	012·0	011·7	011·4	011·2	010·7	010·2	009·8	009·3	008·7	013·4
2	008·0	007·4	006·9	006·2	005·9	004·9	004·9	004·9	004·7	004·7	004·2	003·9	003·2	002·2	001·5	000·6	000·1	999·3	998·2	997·5	996·6	996·6	996·0	994·7	002·5
3	993·9	992·2	990·1	989·1	989·8	990·1	990·0	989·4	988·0	986·7	985·4	982·9	984·4	985·6	985·6	985·8	987·0	986·7	985·9	984·8	983·6	981·8	980·6	980·6	987·0
4	981·7	982·3	983·0	983·2	983·6	984·1	985·1	987·6	989·0	990·1	992·2	993·7	995·1	996·1	997·0	997·7	998·3	998·7	999·0	999·5	999·7	999·9	000·2	000·3	992·0
5	000·3	000·4	000·2	000·2	000·1	000·1	999·8	000·3	999·8	999·6	998·6	997·8	996·5	995·2	994·0	992·3	990·8	989·0	989·0	988·9	988·5	988·7	988·7	988·8	995·6
6	988·7	988·6	988·9	989·1	989·7	990·1	990·6	991·5	992·2	992·8	993·3	994·3	994·6	995·5	996·1	996·4	996·7	997·3	998·0	998·0	998·0	998·0	997·7	997·2	993·7
7	996·5	995·6	994·6	993·4	992·6	991·5	990·1	989·0	988·0	986·7	985·3	984·3	983·1	982·2	981·2	980·3	978·5	977·1	977·6	979·4	980·4	981·1	982·0	982·7	985·9
8	983·9	984·6	985·5	986·8	987·7	989·4	990·4	991·6	992·3	993·0	993·8	994·0	994·0	993·7	993·3	993·4	994·1	994·4	993·8	993·1	991·9	990·8	988·8	987·2	990·8
9	985·5	982·1	979·1	977·6	976·8	976·3	976·0	976·1	975·6	975·2	974·8	973·8	973·2	972·8	972·2	971·4	970·8	970·4	970·0	969·0	968·1	967·3	967·1	965·9	974·1
10	965·6	965·0	964·1	963·3	962·6	962·0	962·6	963·1	962·9	963·0	963·4	963·7	963·8	963·9	963·9	964·3	964·4	965·0	965·8	966·7	967·3	968·5	969·5	970·3	**964·7**
11	970·6	971·0	971·3	971·2	971·3	972·1	972·9	973·9	974·6	975·6	976·6	977·1	977·8	978·5	979·3	980·5	981·7	983·0	984·3	985·4	986·4	987·5	988·3	989·3	977·9
12	990·4	991·2	992·2	993·0	994·1	995·1	995·9	997·0	998·2	999·1	000·3	001·3	002·1	003·2	003·9	004·8	005·5	006·3	007·0	007·5	007·7	008·2	008·1	008·2	000·5
13	008·0	007·8	007·7	007·4	006·7	006·0	005·3	004·6	003·8	002·9	001·9	001·2	999·7	998·4	997·3	996·4	995·5	994·8	994·9	996·3	996·7	997·4	997·7	997·8	001·3
14	998·1	998·2	998·7	998·8	998·9	999·3	999·5	000·0	000·5	001·0	001·8	002·1	002·4	003·1	003·7	004·8	005·4	006·4	007·4	008·3	009·2	010·0	010·6	011·7	003·0
15	013·1	014·2	015·2	016·4	017·5	018·5	019·6	020·7	021·6	022·3	023·1	023·4	023·8	024·1	024·3	024·6	024·7	025·2	025·8	026·1	026·4	026·2	026·4	026·3	021·8
16	026·3	025·9	025·7	025·4	025·5	025·2	025·2	025·1	025·2	025·3	025·0	024·3	023·5	022·8	022·4	022·3	022·2	022·0	021·7	021·4	021·1	020·5	020·3	019·9	023·6
17	019·6	018·6	018·1	017·5	017·0	016·3	015·8	015·4	015·1	014·9	014·6	013·8	013·2	012·5	011·8	011·0	010·7	010·0	009·3	008·2	007·6	006·6	005·5	004·7	013·1
18	004·0	003·0	003·4	004·4	006·2	007·0	008·0	009·0	009·7	010·3	010·9	010·8	010·6	010·7	010·2	010·1	010·1	010·1	009·4	008·6	007·9	007·3	006·3	005·0	008·0
19	003·9	003·3	002·8	002·2	001·5	001·5	001·6	001·3	001·4	001·3	001·3	000·7	000·4	000·2	999·9	000·0	000·2	000·5	000·8	000·7	000·9	001·2	001·1	001·0	001·3
20	000·9	000·9	001·2	001·3	001·5	001·7	001·9	002·4	002·3	002·4	002·2	001·5	001·3	000·6	000·5	001·5	002·8	004·2	005·0	006·1	006·6	007·4	007·7	008·5	002·9
21	008·9	009·8	010·3	010·6	010·9	011·6	012·3	013·0	014·0	014·7	015·4	015·6	016·0	016·1	016·5	017·1	017·9	018·2	019·2	019·6	020·2	020·6	020·5	020·6	015·1
22	020·8	021·0	020·8	020·1	019·8	019·4	019·2	018·5	018·4	016·7	015·8	014·2	012·8	011·3	009·6	007·8	006·3	004·5	002·7	001·4	999·5	998·7	998·8	000·9	012·0
23	001·2	001·3	001·3	001·3	001·3	000·7	000·6	000·3	999·8	999·1	998·7	998·0	997·0	996·2	996·0	996·2	996·9	997·6	997·8	999·2	999·7	000·4	000·7	001·2	999·3
24	001·7	001·7	001·8	001·3	000·9	000·2	000·1	999·9	000·2	000·2	000·3	000·0	000·4	000·4	000·2	000·5	000·6	000·6	001·1	001·9	002·4	002·9	003·2	003·7	001·0
25	003·9	004·3	004·3	004·2	004·1	003·8	003·8	003·7	003·2	002·8	001·9	000·7	999·7	998·9	997·4	997·1	996·4	996·0	995·7	994·5	993·6	992·3	990·8	989·2	999·6
26	987·1	984·6	982·3	980·0	979·7	979·6	979·8	981·0	983·7	984·9	986·6	987·7	988·2	989·6	990·8	991·7	992·6	993·2	993·4	993·1	993·0	992·9	992·8	993·5	987·5
27	994·1	994·5	995·0	995·6	996·1	996·9	997·3	998·2	998·6	999·0	999·4	999·5	999·5	999·6	999·6	999·9	000·1	000·5	001·4	001·9	002·2	003·2	003·7	004·9	999·0
28	005·4	006·0	006·6	006·9	007·3	007·4	007·8	008·7	009·5	010·3	010·6	010·7	010·8	010·7	010·6	010·7	011·0	011·1	011·4	011·4	012·4	013·4	013·7	014·6	009·8
29	014·9	015·6	016·2	017·0	017·5	017·9	018·5	019·1	019·9	020·6	021·1	021·2	021·4	021·6	021·8	022·3	022·9	023·4	023·6	023·6	023·9	024·1	024·3	024·6	020·5
30	025·0	025·2	025·2	025·3	025·4	025·7	025·8	026·1	026·3	026·1	026·3	026·1	025·7	025·5	025·1	025·1	025·0	025·1	025·2	024·8	024·7	024·6	024·6	024·0	**025·3**
Mean (Station Level)	1000·67	1000·46	1000·31	**1000·16**	1000·25	1000·31	1000·50	1000·88	1001·11	1001·19	**1001·29**	1001·06	1000·91	1000·79	1000·59	1000·62	1000·70	1000·73	1000·85	1000·92	1000·88	1000·93	1000·83	1000·87	1000·74
Mean (Sea Level)	1002·32	1002·11	1001·96	**1001·81**	1001·90	1001·96	1002·15	1002·53	1002·76	1002·84	**1002·94**	1002·70	1002·55	1002·43	1002·23	1002·27	1002·35	1002·38	1002·50	1002·57	1002·53	1002·58	1002·48	1002·52	1002·39

354. Cahirciveen (Valentia Observatory) : H_b = 13·7 metres. **December, 1931.**

Station Level, Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	023·7	023·5	023·6	023·2	023·1	023·2	023·1	023·4	023·6	023·7	023·7	023·2	022·7	022·4	022·3	022·4	022·3	021·7	021·6	021·2	020·9	020·4	019·6	018·9	022·5
2	018·3	017·2	016·8	016·2	015·4	014·1	013·4	012·8	012·5	011·6	011·3	009·8	008·6	007·9	007·4	007·2	007·1	006·5	005·9	005·2	003·9	002·3	000·7	998·5	010·0
3	996·1	994·1	993·3	993·5	993·8	995·0	996·1	997·0	997·5	998·4	999·6	000·1	000·2	000·8	000·9	001·1	001·3	000·8	000·1	998·9	997·3	997·0	997·3	997·9	**997·9**
4	998·3	999·4	001·3	001·6	001·4	000·5	999·1	998·8	999·2	000·6	002·1	002·9	003·6	004·8	006·1	008·2	010·1	010·9	011·6	012·7	014·0	015·4	015·6	015·7	005·2
5	015·3	015·0	014·7	013·7	012·6	011·5	010·5	009·3	008·1	007·2	007·6	006·2	004·4	002·9	002·0	000·5	999·5	999·4	999·5	000·4	001·1	002·0	002·2	002·7	006·5
6	002·7	002·0	002·0	002·0	002·0	002·0	001·6	002·5	003·8	004·8	006·1	006·6	007·1	007·7	008·8	010·5	012·9	014·4	016·0	017·2	018·5	019·5	020·3	021·1	008·5
7	021·7	021·8	022·1	022·4	022·6	022·9	023·3	023·4	023·6	023·7	023·6	023·1	022·8	021·9	021·5	021·2	020·4	020·1	019·9	019·7	020·8	021·3	022·1	022·4	022·0
8	022·7	022·7	022·9	022·7	022·6	022·5	022·4	022·5	023·2	023·4	024·2	024·2	024·2	024·5	024·8	025·2	026·2	026·4	027·0	027·5	027·9	028·4	029·0	029·0	024·7
9	029·0	029·1	029·3	029·1	029·3	029·5	029·8	030·0	030·4	030·9	031·0	030·8	030·3	029·9	029·6	029·9	030·4	030·9	031·0	031·0	031·3	031·4	031·4	031·5	030·2
10	031·6	031·6	031·9	031·8	031·8	031·9	032·2	032·4	032·7	033·0	033·4	033·1	032·8	032·7	032·7	032·7	032·8	033·0	033·3	033·3	033·2	033·4	033·2	033·4	032·6
11	033·5	033·3	033·2	033·1	033·0	033·2	033·4	033·8	034·0	034·4	034·6	034·5	034·5	034·3	034·4	034·7	034·7	034·8	034·8	034·8	035·0	035·0	035·0	035·1	034·2
12	035·1	035·3	035·5	035·5	035·6	035·5	035·6	035·7	036·0	036·0	036·1	035·9	035·6	035·5	035·3	035·3	035·0	034·9	035·0	035·2	035·0	035·0	034·9	034·7	**035·4**
13	034·2	033·6	033·5	033·0	032·7	032·4	032·1	031·6	031·7	031·9	031·8	031·3	030·9	030·2	029·9	029·9	029·7	029·4	029·1	028·9	028·8	028·5	028·3	028·0	031·0
14	027·7	027·2	027·1	026·8	026·6	026·1	026·0	025·9	025·9	025·9	026·1	025·6	025·1	024·6	024·1	024·1	024·3	024·2	024·3	024·2	024·0	023·9	023·6	023·6	025·4
15	023·4	023·3	023·2	022·9	022·7	022·6	022·7	022·7	023·1	023·4	023·7	023·2	022·9	022·3	022·3	022·5	022·7	022·9	022·9	023·0	023·4	023·5	023·7	023·9	023·0
16	023·8	023·9	023·9	023·9	024·1	024·3	024·5	024·9	025·5	025·9	026·4	026·4	026·3	026·2	026·4	026·8	027·3	027·4	027·6	027·8	027·9	027·9	028·1	028·4	026·0
17	028·7	028·4	028·5	028·2	028·1	027·9	028·2	028·5	028·7	029·0	029·0	029·1	029·0	028·8	028·8	028·8	028·9	029·1	029·1	029·5	029·4	029·6	029·9	030·0	028·9
18	030·1	030·1	030·4	030·5	030·7	031·2	031·7	032·1	032·2	032·6	033·1	033·1	032·9	032·6	032·7	032·9	033·2	033·1	033·1	033·2	033·1	033·2	033·2	033·2	032·2
19	033·2	033·3	033·2	033·1	033·2	033·1	033·2	033·4	033·8	034·3	034·5	034·2	034·1	034·0	034·2	034·6	034·8	035·1	035·4	035·7	036·1	036·2	036·3	036·5	034·3
20	036·5	036·3	036·2	035·9	035·7	035·4	035·3	035·4	035·6	035·7	035·8	035·4	035·1	034·5	034·3	034·3	034·1	033·9	033·9	033·9	033·8	033·8	033·7	033·2	035·0
21	033·0	032·9	032·6	032·4	031·9	032·0	032·1	032·0	032·2	032·7	032·6	032·1	031·8	031·1	030·8	030·8	030·8	030·7	030·8	031·0	030·6	030·9	030·9	030·9	031·7
22	030·6	030·3	030·2	030·2	030·1	030·3	030·7	030·9	031·0	031·1	031·3	031·0	030·4	030·0	029·5	029·6	029·7	029·5	029·3	029·6	029·5	029·5	029·5	029·5	030·2
23	029·5	029·4	029·6	029·5	029·7	029·7	030·0	030·2	029·9	030·1	030·4	030·2	030·1	029·4	029·3	029·2	029·5	029·8	030·1	030·2	030·4	031·0	031·3	031·5	030·0
24	031·5	031·3	031·3	031·0	030·9	031·0	031·3	031·5	031·8	032·6	032·8	032·8	032·4	032·2	032·1	032·3	032·4	032·4	032·5	032·8	032·8	033·1	033·3	033·3	032·1
25	033·2	033·0	033·1	032·9	033·0	032·8	032·9	033·2	033·4	033·7	033·9	033·6	033·3	033·2	032·7	032·8	032·8	032·8	032·7	032·7	032·7	032·7	032·6	032·5	033·0
26	032·3	031·6	031·7	031·3	031·0	030·6	030·6	030·6	030·9	031·1	031·3	031·0	030·4	029·5	029·2	029·2	029·2	029·2	029·1	029·1	029·1	028·9	028·9	028·7	030·3
27	028·2	027·7	027·5	027·0	026·3	026·1	026·0	025·7	025·6	025·6	025·7	025·2	024·1	023·5	022·9	022·4	022·1	021·7	021·4	021·0	020·4	019·7	019·3	018·8	024·1
28	017·8	016·6	016·1	015·2	014·3	013·6	013·1	013·2	013·3	013·1	013·1	012·5	011·7	011·2	011·2	011·1	010·5	010·5	010·3	010·0	009·8	009·9	009·7	009·5	012·6
29	009·1	008·5	008·4	008·0	007·5	007·6	007·7	007·7	008·1	008·9	009·4	009·6	010·0	009·8	010·1	010·6	011·2	012·1	012·5	012·8	013·0	013·7	014·1	014·5	010·1
30	014·6	014·9	015·5	015·7	016·0	016·2	016·7	017·0	017·4	017·8	018·5	018·6	018·3	018·4	018·4	018·7	019·0	019·2	019·2	019·6	019·7	019·9	020·0	020·1	017·8
31	019·9	019·7	019·7	019·7	019·4	019·2	019·0	018·9	018·8	018·9	018·8	018·4	017·3	016·7	016·3	015·4	014·6	013·6	014·0	013·9	013·8	013·8	013·5	013·2	017·1
Mean (Station Level)	1024·04	1023·77	1023·82	1023·61	1023·45	1023·35	1023·37	1023·45	1023·66	1023·93	**1024·24**	1023·99	1023·64	1023·34	**1023·26**	1023·38	1023·53	1023·56	1023·65	1023·74	1023·78	1023·90	1023·91	1023·88	1023·69
Mean (Sea Level)	1025·73	1025·46	1025·51	1025·30	1025·14	1025·04	1025·06	1025·14	1025·35	1025·62	**1025·93**	1025·68	1025·33	1025·03	**1024·95**	1025·07	1025·22	1025·25	1025·34	1025·43	1025·47	1025·59	1025·60	1025·57	1025·38
Hour, G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

PRESSURE AT STATION LEVEL AND AT SEA LEVEL.
ANNUAL MEANS FROM HOURLY VALUES.

From readings in millibars at exact hours, Greenwich Mean Time.

355. Cahirciveen (Valentia Observatory) : H_b = 13·7 metres. **1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
Station Level.	012·63	012·45	012·29	012·14	**012·09**	012·14	012·26	012·45	012·60	012·69	012·77	021·72	012·60	012·48	012·39	012·37	012·41	012·48	012·63	012·77	012·89	**012·92**	012·90	012·82	012·54
Sea Level.	014·36	014·16	014·00	013·84	**013·79**	013·83	013·96	014·14	014·28	014·37	014·45	014·39	014·27	014·13	014·03	014·01	014·05	014·12	014·27	014·41	014·52	**014·56**	014·53	014·45	014·21

PRESSURE AT STATION LEVEL: MONTHLY MEANS AND DIURNAL INEQUALITIES.

The departures from the mean of the day are adjusted for non-cyclic change.

356. Cahirciveen (Valentia Observatory) : H_b = 13·7 metres. **1931.**

Month	Mean.	Hour 1.	GMT. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
Jan.	1013·97	+0·58	+0·47	+0·44	+0·31	+0·10	−0·14	−0·11	+0·04	+0·21	+0·19	+0·02	−0·21	−0·66	**−0·94**	−0·85	−0·68	−0·56	−0·34	−0·06	+0·15	+0·33	+0·49	+0·58	**+0·64**
Feb.	1013·44	+0·05	−0·06	−0·23	−0·43	**−0·45**	−0·39	−0·35	−0·18	+0·01	+0·23	+0·37	**+0·38**	+0·20	+0·04	−0·14	−0·07	−0·07	+0·05	+0·25	+0·21	+0·22	+0·11	+0·17	+0·08
Mar.	1006·91	+0·22	+0·11	−0·09	−0·30	−0·37	**−0·39**	−0·27	−0·10	+0·04	+0·12	+0·16	+0·15	+0·10	−0·05	−0·26	−0·39	−0·33	−0·20	+0·05	+0·25	+0·36	**+0·44**	+0·42	+0·33
Apr.	1012·63	+0·18	−0·09	−0·28	−0·44	**−0·54**	−0·45	−0·28	−0·13	−0·05	+0·04	+0·16	+0·11	+0·09	+0·05	−0·07	−0·15	−0·11	+0·01	+0·07	+0·27	+0·44	**+0·45**	+0·40	+0·32
May	1005·36	+0·09	−0·09	−0·24	−0·37	**−0·42**	−0·26	−0·11	+0·07	+0·16	+0·18	+0·23	+0·26	+0·19	+0·14	+0·01	−0·11	−0·20	−0·26	−0·16	−0·04	+0·24	**+0·28**	+0·24	+0·17
June	1013·32	−0·08	−0·27	−0·45	**−0·53**	−0·49	−0·37	−0·25	−0·07	+0·02	+0·04	+0·13	+0·17	+0·18	+0·13	+0·12	+0·08	+0·14	+0·05	+0·08	+0·19	+0·28	**+0·38**	+0·34	+0·18
July	1008·42	+0·16	−0·02	−0·28	**−0·41**	−0·40	−0·33	−0·23	−0·09	−0·11	−0·12	−0·09	0·00	+0·01	+0·01	+0·01	0·00	−0·03	−0·02	+0·06	+0·22	+0·41	**+0·48**	+0·44	+0·33
Aug.	1011·13	−0·06	−0·26	−0·52	−0·70	**−0·70**	−0·55	−0·38	−0·16	−0·08	+0·04	+0·19	+0·24	+0·26	+0·23	+0·14	+0·12	+0·17	+0·13	+0·22	+0·33	**+0·52**	+0·41	+0·31	+0·10
Sept.	1021·99	+0·05	−0·11	−0·32	−0·48	**−0·51**	−0·35	−0·15	0·00	+0·19	+0·31	+0·30	+0·24	+0·19	+0·02	−0·12	−0·27	−0·28	−0·19	−0·01	+0·30	**+0·39**	+0·34	+0·28	+0·18
Oct.	1018·88	+0·11	−0·07	−0·33	−0·47	**−0·54**	−0·53	−0·38	−0·10	+0·11	+0·21	+0·32	+0·25	+0·10	−0·07	−0·20	−0·25	−0·18	+0·02	+0·25	+0·35	**+0·41**	+0·41	+0·35	+0·23
Nov.	**1000·74**	+0·02	−0·20	−0·36	**−0·52**	−0·44	−0·38	−0·20	+0·17	+0·39	+0·47	**+0·56**	+0·33	+0·16	+0·04	−0·17	−0·15	−0·08	−0·05	+0·06	+0·12	+0·07	+0·11	+0·01	+0·04
Dec.	**1023·69**	+0·20	−0·06	0·00	−0·19	−0·33	**−0·42**	−0·39	−0·29	−0·07	+0·22	**+0·54**	+0·30	−0·03	−0·32	−0·38	−0·24	−0·08	−0·04	+0·06	+0·17	+0·23	+0·36	+0·39	+0·37
Year	1012·54	+0·14	−0·04	−0·21	−0·37	**−0·41**	−0·37	−0·25	−0·07	+0·07	+0·16	+0·24	+0·18	+0·06	−0·06	−0·16	−0·18	−0·14	−0·08	+0·06	+0·20	+0·32	**+0·35**	+0·32	+0·24

ABSOLUTE EXTREMES OF PRESSURE AT STATION LEVEL FOR EACH DAY.

Maximum and minimum for the interval 0 h. to 24 h., Greenwich Mean Time.

357. Cahirciveen (Valentia Observatory) : H_b = 13·7 metres. **1931.**

Month	Jan.		Feb.		Mar.		April		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
Day.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	997·5	986·4	017·3	009·8	014·2	008·9	001·3	994·3	014·8	007·7	011·7	006·4	019·3	010·4	017·3	010·8	011·9	001·2	010·0	007·8	018·4	008·7	024·0	018·9
2	997·5	993·9	023·7	007·7	010·8	001·7	009·3	998·5	008·2	006·9	012·9	009·5	010·4	006·6	023·0	017·3	001·2	995·0	023·4	009·0	008·7	994·7	018·9	998·5
3	004·7	994·4	025·2	022·9	001·7	996·9	017·8	009·3	008·0	005·7	014·3	010·1	006·6	997·7	024·4	022·8	003·1	**994·7**	025·7	021·6	994·7	980·3	001·3	**993·1**
4	015·4	004·6	025·6	022·5	005·2	997·6	019·0	014·0	005·7	000·4	010·1	004·6	001·7	997·3	024·4	019·6	013·6	003·0	021·7	018·0	000·3	980·6	015·7	997·7
5	019·5	015·1	024·4	002·7	004·8	995·8	014·0	008·8	001·0	999·7	006·5	003·6	008·7	001·0	019·7	014·7	021·7	013·4	018·1	008·1	000·5	988·3	015·7	998·9
6	028·4	019·5	016·4	005·8	998·8	995·0	008·0	004·8	008·6	998·5	003·8	002·7	012·6	008·4	018·2	015·4	023·4	021·6	008·1	001·6	998·1	988·6	021·1	001·6
7	031·4	028·4	015·7	998·5	004·0	998·8	004·8	997·2	016·7	008·6	002·9	999·1	013·9	012·3	017·4	007·8	023·1	021·3	013·3	003·5	997·2	976·9	023·7	019·7
8	031·4	028·5	003·8	**996·3**	006·6	003·1	009·2	998·6	**020·9**	016·7	005·7	001·9	012·4	008·3	017·7	007·1	021·6	018·5	015·2	008·8	994·4	982·7	029·0	022·4
9	**032·9**	029·9	009·7	000·2	011·6	006·4	021·2	009·2	020·6	013·2	002·8	999·0	008·3	006·9	021·9	017·5	019·5	017·9	018·4	005·9	987·2	965·9	031·7	028·9
10	031·9	029·2	021·1	001·2	014·0	009·6	024·0	020·9	013·2	006·3	006·6	**996·5**	011·2	006·3	026·9	021·3	024·4	019·0	024·2	018·4	970·3	**962·0**	033·4	031·4
11	029·2	015·3	019·9	003·8	017·4	014·0	022·5	015·6	015·5	007·1	011·2	006·6	011·1	003·4	**030·0**	026·9	025·5	020·4	023·9	018·0	989·3	970·3	035·1	033·0
12	015·3	007·3	010·2	007·9	015·4	005·4	026·1	017·7	015·3	005·6	019·1	011·2	003·4	002·0	028·8	016·4	024·2	017·2	020·5	010·6	008·3	989·3	036·1	034·7
13	025·4	012·1	018·3	009·1	005·2	998·4	**030·4**	026·1	005·9	000·2	018·3	003·7	002·8	999·0	016·4	990·2	029·0	024·2	033·7	020·5	008·2	994·7	034·7	028·0
14	025·5	022·3	019·2	016·0	001·3	998·8	029·3	024·9	005·8	000·5	009·7	998·6	002·0	997·8	992·3	988·0	029·3	027·9	**036·4**	033·7	011·7	997·8	028·0	023·5
15	024·7	021·3	016·0	004·8	003·2	001·2	029·1	021·1	005·3	003·1	009·7	002·9	013·0	002·0	988·1	977·6	029·8	027·1	035·6	029·4	**026·5**	011·7	024·0	022·2
16	023·2	012·8	007·8	000·8	002·5	997·2	029·4	022·2	004·1	003·0	008·0	002·8	016·6	013·0	000·3	**976·6**	027·1	020·6	029·4	026·2	026·3	019·9	028·4	023·7
17	019·3	014·8	018·1	007·4	000·3	997·5	022·2	016·8	003·4	998·3	012·6	007·2	016·3	008·4	008·0	000·3	022·9	019·3	027·7	025·7	020·0	004·7	030·0	027·9
18	019·3	016·6	021·0	018·1	999·3	996·2	020·7	017·7	007·2	997·3	012·2	001·6	011·7	009·3	008·0	994·5	028·5	022·9	027·7	026·1	010·9	002·8	033·2	029·9
19	016·6	008·8	018·6	008·6	999·4	**992·1**	021·6	020·4	013·5	007·2	021·6	002·6	016·2	011·1	994·5	986·1	033·9	028·5	026·4	022·6	005·0	999·9	**036·5**	033·0
20	018·8	013·4	008·6	004·5	997·3	994·8	021·5	018·5	013·4	004·1	025·7	021·5	**022·4**	016·2	009·0	990·7	036·1	033·8	024·3	021·5	008·5	000·0	**036·5**	033·2
21	013·4	008·2	016·2	005·3	005·2	997·3	019·2	016·7	004·1	995·7	025·7	024·3	022·2	016·8	011·8	009·0	035·7	031·1	024·4	015·6	020·6	008·5	033·2	030·6
22	011·1	993·6	020·1	016·1	012·9	005·2	016·7	003·2	003·6	996·1	024·3	021·5	016·8	008·2	011·2	009·1	031·9	029·8	015·6	004·1	021·0	998·4	031·3	029·3
23	993·6	**984·7**	**026·7**	020·1	023·8	012·9	003·2	987·8	999·1	996·5	021·5	017·3	010·7	007·1	009·4	002·2	030·2	028·0	004·1	**999·3**	001·4	995·9	031·5	029·2
24	006·7	991·8	**026·7**	022·6	**027·4**	023·7	987·8	980·8	003·5	994·7	023·3	016·5	007·1	**993·8**	011·6	000·3	033·8	028·8	013·4	001·0	003·7	999·7	033·3	030·8
25	020·6	006·7	022·6	019·0	026·3	022·3	994·1	**980·7**	011·2	003·5	027·0	023·2	001·9	995·0	023·1	011·6	**036·3**	033·7	023·5	013·4	004·4	989·2	033·9	032·5
26	025·4	019·3	019·0	014·2	023·7	022·7	011·9	984·1	014·9	010·9	026·8	025·6	003·4	999·3	023·2	017·9	**036·3**	034·3	025·1	023·5	993·5	979·1	032·5	028·7
27	019·3	007·3	018·0	003·7	023·1	018·4	019·0	011·9	014·8	003·6	027·0	025·4	014·9	003·4	018·6	015·6	034·3	026·1	023·8	019·5	004·9	993·5	028·7	018·8
28	017·1	008·4	008·9	997·6	018·4	011·8	018·9	017·3	003·6	996·2	027·3	025·5	018·7	014·9	016·5	014·3	026·1	019·4	022·4	018·3	014·6	004·9	018·8	009·5
29	013·9	000·0	—	—	011·8	009·4	017·3	014·4	996·2	**989·4**	**027·8**	025·6	016·1	008·1	016·9	013·7	019·4	001·1	022·4	019·8	024·6	014·6	014·5	007·3
30	019·9	013·9	—	—	011·1	006·1	016·7	014·8	998·2	991·6	025·6	019·3	010·8	008·7	017·5	016·2	009·1	000·9	022·8	019·6	026·4	024·0	020·1	014·5
31	014·7	992·7	—	—	007·0	001·3	—	—	006·4	998·2	—	—	010·8	007·2	017·5	011·9	—	—	022·1	018·4	—	—	020·1	013·2
Mean	1018·18	1009·72	1017·81	1008·83	1009·80	1004·53	1016·23	1008·94	1008·47	1002·15	1016·06	1010·54	1011·42	1005·80	1014·95	1007·21	1024·76	1019·36	1022·04	1015·79	1006·65	994·25	1026·93	1020·79

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

358. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t (height of thermometer bulbs above ground) = 1·3 metres.

January, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	78·0	78·1	77·8	77·5	77·6	77·2	77·0	77·0	76·4	76·8	78·0	78·9	79·4	79·9	79·1	78·4	78·4	77·7	77·2	76·4	76·9	77·9	79·0	79·0	77·9
2	79·3	79·0	78·4	77·8	76·7	77·0	75·6	75·9	75·0	76·0	75·4	76·7	77·0	77·4	78·0	78·1	78·0	77·3	77·0	77·1	77·1	77·1	77·1	77·1	77·2
3	76·9	76·8	77·4	77·1	76·0	75·4	74·6	77·0	77·0	77·0	79·0	79·1	79·9	80·1	79·9	80·0	79·9	79·9	79·8	80·0	80·1	80·3	80·2	80·0	78·4
4	80·0	80·1	80·3	79·4	79·0	79·2	79·7	79·9	79·0	79·0	80·0	80·8	81·0	81·0	81·0	80·1	79·1	77·3	77·0	76·1	76·1	76·5	75·8	75·9	79·0
5	74·9	77·2	79·0	79·1	79·4	79·6	79·9	80·1	80·1	80·6	80·9	81·0	81·1	81·0	81·2	81·0	81·0	81·1	81·0	81·0	81·1	81·1	81·0	81·0	80·1
6	81·0	81·0	80·6	81·0	81·0	80·9	80·9	80·2	80·7	80·6	80·6	81·7	81·7	81·9	81·8	81·4	80·1	79·5	79·7	80·3	80·6	80·0	80·0	79·4	80·7
7	78·8	76·2	76·0	75·5	75·6	75·7	76·6	76·4	76·0	76·0	77·0	78·3	80·1	80·4	80·0	79·9	79·8	79·7	79·4	79·1	79·6	79·1	79·0	78·2	78·0
8	78·0	77·7	77·1	78·0	77·5	77·2	77·0	76·3	76·1	76·6	78·1	79·0	79·8	80·0	80·0	80·1	80·2	81·0	81·2	81·1	80·9	80·4	80·2	79·2	78·8
9	79·9	78·8	77·9	77·7	77·5	76·8	76·5	75·9	75·8	75·8	76·7	77·4	78·4	79·0	79·9	79·2	77·8	76·9	76·0	75·2	76·0	76·0	76·1	76·0	77·3
10	76·0	76·9	76·1	76·6	77·0	77·0	77·4	77·3	77·9	78·4	78·7	79·8	80·4	82·0	82·0	81·4	80·8	79·9	79·9	79·9	80·7	81·0	80·9	80·7	79·0
11	80·8	81·3	80·9	81·0	81·0	81·2	81·8	81·6	81·9	82·0	82·0	82·1	82·6	82·2	82·5	82·0	82·1	82·1	81·0	81·1	81·1	80·2	80·0	80·8	81·5
12	80·3	79·9	80·0	80·0	79·2	79·1	79·0	77·9	78·0	78·6	78·6	78·4	79·3	79·0	79·0	79·5	79·1	79·0	79·5	80·0	79·8	79·5	79·5	79·4	79·3
13	79·0	79·1	79·4	79·0	78·9	78·8	78·4	78·4	78·0	78·0	78·0	78·2	78·1	78·0	77·9	77·8	77·0	77·0	76·9	76·8	76·0	75·3	75·0	75·0	77·8
14	75·0	74·0	73·1	73·0	71·9	72·4	72·0	71·4	71·5	72·8	73·0	75·0	76·8	78·0	79·5	79·1	79·5	80·0	80·1	80·3	80·4	80·9	81·0	81·0	**76·2**
15	81·2	81·1	81·9	82·3	82·5	82·4	82·0	82·3	82·1	82·0	82·0	82·0	82·0	81·7	81·7	81·9	81·9	81·4	81·3	81·4	81·6	81·4	81·6	81·9	81·8
16	81·9	81·9	81·9	81·9	82·0	82·0	82·0	82·0	82·2	82·5	82·9	82·9	82·9	83·0	83·0	83·1	83·1	83·0	82·9	82·9	83·4	83·0	82·2	82·0	82·5
17	82·0	81·9	81·9	81·9	81·9	82·0	82·0	82·0	82·0	81·9	82·2	82·4	82·1	82·5	82·2	82·1	82·0	82·0	80·8	81·0	81·0	81·1	81·2	81·4	81·8
18	81·4	81·5	81·4	81·6	82·0	82·1	82·1	82·4	82·5	82·4	82·3	82·3	82·4	82·0	82·0	82·0	82·0	82·0	82·1	82·2	82·0	82·1	82·6	82·8	82·1
19	82·9	83·0	83·0	83·1	83·1	83·2	83·3	83·2	83·2	83·3	83·2	83·1	83·1	83·1	83·2	83·3	83·3	83·4	83·4	83·0	83·0	82·8	82·4	82·1	**83·1**
20	81·9	82·0	82·1	82·6	82·1	82·1	81·9	81·1	80·0	80·0	81·1	81·6	82·1	82·2	82·1	81·1	81·0	81·3	81·6	82·0	81·5	81·6	82·0	82·0	81·6
21	81·2	81·1	81·2	81·4	81·1	81·1	81·9	82·0	82·1	82·3	82·4	81·8	81·4	81·4	81·4	81·2	81·0	80·0	79·8	80·9	80·7	80·1	78·4	80·3	81·1
22	80·1	80·0	80·5	80·2	80·0	79·0	78·5	78·3	79·0	79·7	80·4	80·5	80·6	80·9	81·0	81·3	81·8	82·4	82·9	83·0	82·9	83·0	82·9	82·9	80·9
23	82·5	82·6	82·5	82·6	82·1	81·9	81·6	82·0	82·0	82·4	82·9	81·2	81·0	81·4	81·1	80·9	81·0	81·0	80·5	80·8	80·7	79·1	79·1	80·0	81·4
24	80·4	79·9	79·9	79·0	79·0	80·0	79·9	80·5	80·9	80·0	80·9	81·0	81·0	81·0	81·0	80·0	79·9	80·5	79·9	79·5	80·2	80·0	80·0	79·2	80·2
25	79·7	80·4	80·0	80·0	80·0	80·0	80·6	80·4	80·0	80·4	80·1	81·0	80·1	81·0	81·5	81·4	81·0	81·0	80·6	80·0	81·0	80·6	80·4	80·6	80·5
26	80·0	80·5	80·3	80·2	80·2	80·3	80·3	80·3	80·2	80·3	81·2	81·4	81·6	81·8	81·8	81·6	81·3	81·0	81·0	81·1	81·2	81·3	81·7	82·0	80·9
27	82·0	82·2	82·4	82·4	82·3	82·4	82·9	83·0	83·1	83·4	83·5	83·7	83·4	82·9	82·6	82·5	82·4	81·7	81·7	81·7	81·6	81·6	81·5	81·4	82·4
28	81·4	81·3	81·3	81·4	81·3	81·3	81·3	81·3	81·3	81·6	81·8	82·1	82·2	82·0	81·0	81·4	81·4	81·5	81·4	81·4	80·1	81·1	80·9	80·6	81·4
29	79·0	80·4	79·9	80·1	80·0	80·0	80·0	79·8	80·0	80·9	80·5	80·4	80·9	80·9	81·0	80·8	81·0	80·7	80·0	80·0	80·2	80·0	80·0	80·0	80·3
30	80·2	80·0	79·3	79·9	79·9	80·1	79·6	80·0	80·0	80·5	81·0	81·1	81·5	81·0	81·3	80·7	80·2	80·0	80·1	81·4	82·0	82·0	82·2	82·5	80·6
31	82·6	82·8	82·8	82·9	83·0	83·0	83·2	83·4	83·4	83·8	83·9	83·2	82·5	81·4	81·0	80·7	80·4	80·0	80·3	80·4	80·1	80·9	80·1	80·5	82·0
Mean ...	79·9	80·0	79·9	79·9	79·7	79·7	79·7	79·7	**79·6**	79·9	80·3	80·6	80·9	81·0	**81·0**	80·8	80·6	80·4	80·2	80·2	80·3	80·2	80·1	80·2	80·2

359. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t = 1·3 metres.

February, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	80·0	79·5	79·3	79·9	80·0	80·0	80·1	79·7	79·0	80·0	80·9	81·0	81·1	81·0	81·0	80·8	80·4	80·0	79·9	80·0	80·5	80·0	80·2	80·4	80·2
2	80·6	81·1	81·0	81·1	81·0	81·1	81·4	81·4	81·4	81·6	81·9	82·3	82·2	82·1	81·0	81·0	80·5	80·4	81·0	80·8	80·1	79·6	79·0	78·2	81·0
3	78·0	79·4	80·0	80·1	79·0	78·4	78·0	77·6	76·2	76·2	77·9	78·9	80·0	80·3	80·2	80·0	79·6	79·0	78·9	78·9	78·6	79·0	79·3	79·0	78·8
4	79·1	79·4	79·5	79·8	79·5	79·0	79·8	80·0	79·9	80·3	80·4	81·0	81·2	82·0	82·1	81·9	81·2	80·4	79·8	78·9	77·6	76·5	77·0	76·0	79·7
5	76·4	77·0	78·0	78·3	79·2	79·6	80·0	80·0	80·7	81·0	82·0	82·0	82·3	82·6	82·7	82·4	82·4	82·8	82·9	82·6	82·8	82·6	82·5	81·9	80·9
6	81·1	81·6	81·0	81·2	81·0	81·1	80·1	80·2	80·3	80·8	80·8	81·0	81·2	81·0	81·1	81·0	80·3	80·2	80·1	79·3	78·9	79·0	79·0	78·0	80·5
7	77·9	78·6	78·0	77·8	77·2	78·5	79·1	79·6	79·8	80·1	81·0	81·8	82·0	82·1	81·9	81·4	81·3	81·4	81·1	81·0	81·0	81·0	81·1	81·5	80·2
8	81·9	82·1	83·1	83·2	83·9	83·8	83·7	83·7	84·0	84·0	84·0	84·0	84·0	84·0	83·8	83·6	83·6	83·7	84·0	84·2	84·3	84·8	84·4	83·9	**83·7**
9	83·0	82·8	81·9	81·4	81·3	81·0	81·0	81·4	82·0	82·9	83·4	83·4	83·6	83·4	83·1	83·1	83·3	84·0	84·0	84·0	83·8	83·6	81·9	81·4	82·7
10	81·7	79·4	78·8	79·0	79·0	79·0	77·9	78·9	78·1	79·0	79·9	80·0	80·1	79·0	80·5	80·9	80·1	79·2	79·0	79·9	80·0	80·0	79·3	80·3	79·6
11	80·9	80·2	79·6	80·0	80·2	81·0	81·2	81·1	82·0	82·0	82·4	82·2	83·0	82·5	82·4	81·9	81·3	81·0	81·0	80·7	80·0	79·9	80·2	80·1	81·1
12	80·0	79·7	79·9	80·1	80·4	79·1	80·0	80·0	80·0	80·4	80·9	80·3	80·6	80·8	80·5	81·0	80·6	79·9	79·0	80·0	79·0	79·9	79·9	79·8	80·1
13	80·0	79·9	80·1	79·7	79·0	79·3	79·3	79·2	79·0	78·5	79·0	79·4	79·0	80·0	80·0	80·2	79·0	79·3	79·0	80·0	80·0	79·8	79·0	79·5	79·5
14	79·0	79·3	79·1	79·0	79·0	79·2	79·1	78·6	78·4	78·8	79·0	79·8	80·8	82·9	83·0	82·9	82·9	83·0	83·0	83·0	83·1	83·0	83·0	82·4	80·8
15	82·6	82·4	82·2	82·0	81·6	81·1	81·1	81·0	81·1	81·1	81·2	81·4	81·5	81·6	81·2	81·0	81·1	81·0	81·0	81·0	81·0	81·0	80·8	81·0	81·4
16	80·8	80·3	80·2	79·0	78·2	78·4	78·0	79·0	79·7	78·0	77·9	79·6	80·0	79·0	80·3	80·0	79·8	78·6	78·9	78·8	78·1	78·3	78·0	77·2	79·1
17	78·0	78·5	78·9	78·4	78·3	77·6	77·2	77·7	77·8	78·3	78·8	79·0	78·0	79·0	79·2	79·3	79·4	79·2	79·3	77·1	78·5	78·3	78·1	78·1	78·4
18	77·9	77·7	77·4	77·8	77·6	77·8	77·9	78·0	78·0	78·7	79·0	78·9	79·0	79·4	79·5	79·3	79·0	78·1	77·1	76·9	76·0	75·2	74·4	74·1	77·8
19	74·4	74·7	75·1	75·8	76·1	76·2	76·6	77·1	78·2	78·9	79·1	79·9	80·9	82·1	82·6	82·8	82·2	82·1	82·2	82·1	82·0	81·7	80·9	81·0	79·2
20	82·0	82·4	82·9	82·8	82·8	82·7	82·8	83·0	83·0	83·1	82·9	82·2	82·0	81·8	81·4	81·1	81·1	80·0	80·2	80·1	79·2	79·9	79·8	78·2	81·6
21	78·1	78·1	78·1	77·9	78·0	78·0	78·2	77·8	78·0	77·0	77·1	78·9	79·0	77·0	79·3	79·1	79·2	78·4	79·0	78·1	77·2	77·8	78·9	79·0	78·2
22	79·0	79·0	79·0	79·1	79·5	79·4	79·4	78·0	79·1	80·1	80·0	81·0	81·4	79·9	80·1	81·0	80·9	80·0	80·0	80·0	80·0	80·0	80·0	79·3	79·8
23	78·9	79·2	78·4	79·6	80·0	80·0	80·0	79·8	80·0	80·4	81·0	81·0	81·0	81·0	81·7	81·0	81·0	80·4	80·9	80·9	80·4	80·0	80·3	79·5	80·3
24	78·6	79·1	79·4	79·0	79·7	80·0	80·4	80·9	81·4	82·0	82·4	83·0	83·1	83·3	83·3	83·4	83·3	83·2	83·1	83·1	83·1	83·1	83·3	83·4	81·8
25	83·3	83·6	83·7	83·4	83·6	83·1	83·1	83·1	83·0	83·0	83·1	83·8	83·8	83·8	83·8	83·4	83·3	83·0	83·0	82·9	82·9	82·9	82·9	82·9	83·3
26	83·0	83·0	83·0	83·2	83·8	83·8	83·4	83·0	83·0	83·1	83·1	82·7	82·3	82·0	82·0	81·8	81·4	80·8	80·1	80·0	80·0	79·8	79·7	79·0	82·0
27	78·9	78·8	78·6	78·4	78·9	79·0	79·1	79·5	80·0	80·2	80·8	81·0	81·1	81·2	81·2	80·0	80·0	78·1	78·0	78·1	78·4	78·1	78·1	78·9	79·4
28	78·9	79·0	78·7	78·0	78·3	76·3	77·0	78·1	77·5	76·1	77·0	77·9	77·9	75·8	77·1	76·3	76·2	77·0	77·0	76·5	76·0	77·0	78·0	78·1	**77·3**
Mean ...	79·8	79·9	79·8	79·8	79·9	79·8	79·8	79·9	80·0	80·2	80·6	81·0	81·1	81·1	**81·3**	81·1	80·9	80·5	80·4	80·3	80·1	80·0	80·0	**79·7**	80·3
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

360. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t (height of thermometer bulbs above ground) = 1·3 metres.

March, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	78·2	78·0	78·1	77·9	76·5	77·0	77·0	76·8	77·4	77·7	78·1	78·9	79·0	78·6	78·9	78·6	78·5	78·0	77·4	77·2	78·0	77·1	77·3	77·0	77·8
2	77·4	78·0	77·0	76·4	76·1	76·8	77·0	77·2	78·0	78·0	78·5	79·3	80·0	80·0	80·5	80·2	80·1	80·0	80·0	80·0	80·0	80·9	80·6	80·6	78·8
3	81·0	81·0	80·7	80·0	79·9	79·9	81·0	81·0	81·5	82·0	83·1	83·9	83·9	83·3	83·9	84·0	83·9	83·2	83·0	82·7	82·6	83·1	82·9	82·1	82·2
4	82·0	82·1	82·0	82·6	82·2	82·1	82·2	82·1	82·9	82·9	82·2	83·1	84·1	84·1	84·2	84·1	84·1	83·8	83·3	83·4	83·8	83·6	83·9	84·4	83·1
5	84·0	84·1	84·3	84·2	84·4	84·5	84·3	84·3	84·2	84·9	85·7	85·8	86·0	85·3	85·1	85·0	84·8	84·4	84·3	84·3	84·3	84·1	84·0	83·9	84·6
6	83·1	83·0	82·2	82·1	82·0	81·9	81·0	81·0	80·8	80·6	80·1	79·7	79·0	78·2	77·8	77·1	77·1	77·1	76·6	76·9	76·2	76·0	75·4	75·1	79·3
7	75·0	75·0	74·9	74·2	74·0	74·0	73·4	73·1	73·4	73·9	74·9	75·0	74·9	74·9	75·0	74·3	74·2	73·8	73·0	72·4	72·6	73·0	73·1	72·9	**74·0**
8	73·0	73·1	73·9	73·4	73·2	73·0	73·0	73·0	73·9	74·1	74·0	74·0	74·9	75·0	75·1	75·4	75·4	75·2	75·4	75·8	75·9	75·8	75·7	75·2	74·4
9	75·2	74·9	75·0	74·0	74·0	73·3	73·0	73·1	74·1	74·9	75·1	75·9	76·1	76·9	76·4	76·4	75·9	75·0	74·0	73·9	73·1	72·8	72·1	72·0	74·5
10	72·0	71·2	71·1	71·9	72·2	72·1	73·0	73·1	74·9	76·1	77·2	78·7	78·9	79·6	80·0	80·0	80·0	79·9	79·1	79·0	79·0	78·7	78·2	78·2	76·3
11	77·9	77·8	76·9	76·8	76·8	76·8	76·6	77·0	78·1	79·0	79·1	79·0	79·9	80·0	80·2	80·2	80·0	79·2	78·9	78·8	78·0	78·4	77·0	77·0	78·3
12	77·3	76·2	76·1	75·4	76·4	75·3	75·7	75·4	76·8	78·9	79·9	80·9	81·0	81·1	81·0	81·3	80·5	79·9	79·0	78·6	78·3	78·1	78·7	78·9	78·3
13	78·9	78·8	79·0	78·9	78·0	78·5	78·6	77·8	78·3	78·8	80·0	80·9	81·9	81·6	81·2	81·1	80·8	80·0	80·0	80·0	79·1	79·9	78·8	79·0	79·6
14	79·0	79·8	78·1	77·9	78·1	77·0	77·8	78·0	78·8	80·3	81·0	82·0	82·7	82·1	82·9	83·3	83·1	82·1	81·0	80·1	80·9	80·9	80·4	80·0	80·3
15	80·2	80·6	80·0	79·6	80·2	80·0	80·0	80·4	81·0	81·1	82·0	82·1	82·2	82·7	82·4	82·1	82·0	82·0	82·0	82·0	82·1	82·0	81·9	82·0	81·3
16	81·8	81·3	81·0	81·0	81·1	81·0	80·9	81·0	81·8	82·1	83·0	83·3	83·2	83·0	83·2	83·0	82·9	82·1	81·7	81·9	82·1	82·6	82·9	83·0	82·1
17	83·0	83·0	83·0	83·0	82·9	82·9	83·0	83·1	84·0	84·9	84·0	84·0	84·9	85·1	84·9	85·0	84·8	84·4	84·1	84·0	84·0	83·7	83·6	82·9	83·8
18	83·0	83·8	84·0	84·6	83·1	83·0	83·1	83·0	83·0	82·9	84·1	84·2	84·9	85·0	86·0	86·1	85·6	85·0	84·7	84·2	84·1	84·1	84·0	84·0	84·1
19	84·0	83·9	84·0	84·1	83·8	83·9	83·8	83·7	83·9	84·2	84·0	84·3	84·7	85·2	85·0	85·0	85·0	84·9	84·9	84·9	85·0	84·5	84·2	84·4	84·4
20	84·2	84·1	84·0	84·0	84·0	83·9	83·6	84·0	84·0	84·9	85·1	85·6	86·0	85·5	85·0	85·0	84·7	84·0	84·0	83·9	83·7	83·3	83·3	83·2	84·3
21	83·2	83·0	83·0	83·0	82·9	82·5	82·5	82·8	83·1	84·0	85·0	85·4	85·8	85·9	85·0	85·0	84·7	84·0	83·1	82·9	82·8	82·3	82·3	82·4	83·6
22	82·4	82·4	82·1	82·1	82·0	81·9	81·4	80·9	83·0	83·9	85·0	85·0	85·3	85·1	85·8	86·0	84·9	83·9	82·8	82·0	81·5	81·6	81·5	81·4	83·1
23	81·3	81·1	80·4	80·0	80·0	79·5	79·1	78·8	79·0	79·0	81·0	83·1	84·5	85·0	85·7	85·2	85·0	84·0	83·2	82·9	81·9	81·4	81·0	80·1	81·8
24	80·0	79·2	79·5	78·9	78·9	78·4	78·0	79·5	80·6	81·1	82·0	83·2	83·9	84·0	84·2	84·9	84·5	84·0	82·5	81·4	80·1	79·5	79·8	80·0	81·2
25	79·9	80·0	80·2	80·0	80·1	80·1	80·0	80·2	80·9	80·9	81·0	81·4	82·0	82·4	81·9	81·6	81·8	82·0	82·3	82·1	82·1	82·0	82·1	82·0	81·2
26	81·8	82·1	82·3	82·0	82·0	82·5	83·0	83·2	83·4	83·4	83·7	83·9	83·9	83·8	84·0	84·0	84·0	83·6	83·2	83·1	83·0	82·6	82·1	82·0	83·0
27	81·9	82·0	82·9	82·1	82·5	82·0	82·4	82·8	83·4	84·1	85·3	85·0	85·2	85·2	85·0	84·4	84·2	83·9	83·4	83·3	83·4	83·3	84·0	84·0	83·5
28	83·9	84·5	84·7	84·6	84·4	84·4	84·4	84·7	84·4	85·0	85·2	85·7	86·4	86·0	85·1	84·9	84·9	84·6	84·1	84·3	84·0	84·2	84·8	84·9	**84·7**
29	84·3	84·3	84·1	83·2	83·4	83·4	83·4	83·4	84·0	84·1	84·3	84·8	84·9	85·1	85·0	85·0	84·7	84·4	84·2	84·3	84·2	84·1	84·0	84·0	84·2
30	84·0	83·8	83·9	83·9	83·9	84·0	84·0	84·4	84·8	84·4	84·4	84·9	84·7	84·9	85·0	84·9	84·9	84·7	84·2	84·0	83·9	83·9	84·0	84·0	84·3
31	84·0	84·0	84·0	84·0	84·0	84·1	84·0	84·0	84·4	84·4	84·9	85·4	84·9	84·5	85·0	85·0	84·4	84·6	84·0	84·0	84·0	84·0	83·9	84·0	84·3
Mean ...	80·5	80·5	80·4	80·2	80·1	**80·0**	80·0	80·1	80·7	81·2	81·7	82·2	82·6	82·5	**82·6**	82·5	82·3	81·9	81·3	81·2	81·0	80·9	80·8	80·7	81·2

361. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t = 1·3 metres.

April, 1931.

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	84·0	84·0	84·0	84·0	84·0	84·0	83·3	83·0	83·1	83·2	83·0	83·2	83·9	83·4	82·2	82·0	80·8	80·4	80·1	80·0	80·0	80·0	79·9	79·9	82·4
2	79·9	79·9	79·9	80·1	81·0	80·3	80·0	80·2	80·8	81·0	80·2	81·0	81·3	81·7	81·5	82·0	81·4	81·0	80·4	80·2	80·0	80·1	80·0	79·9	80·6
3	79·9	80·0	79·9	79·4	79·8	80·0	79·8	80·1	81·0	80·9	81·0	81·7	82·1	82·1	82·1	81·9	81·9	81·5	80·6	80·6	80·6	80·4	80·3	80·1	80·7
4	80·1	80·0	79·6	78·6	78·0	77·0	76·7	77·9	79·5	82·0	83·1	84·1	84·5	84·5	84·5	84·2	84·0	83·6	83·2	83·0	83·0	83·0	83·1	83·2	81·6
5	83·3	83·2	82·7	82·6	82·6	82·7	82·7	82·0	82·1	82·4	82·9	83·1	83·1	83·2	83·0	83·1	83·1	83·0	83·0	83·0	82·9	82·9	82·7	82·4	82·8
6	82·6	82·9	82·5	82·2	81·9	81·7	81·4	81·4	82·4	83·8	84·4	85·4	85·9	85·3	86·0	85·9	85·3	84·8	83·8	83·1	83·3	83·2	83·1	83·1	83·5
7	83·3	83·0	82·8	82·4	82·3	82·4	82·6	83·2	83·6	84·0	84·1	83·3	84·1	83·9	83·4	83·4	83·0	83·0	82·6	82·5	82·6	82·8	82·8	82·7	83·1
8	82·4	82·1	82·3	82·1	82·0	82·0	82·0	82·9	83·0	83·2	84·6	84·9	84·9	85·1	85·3	85·3	85·0	85·0	84·1	83·5	82·6	82·1	81·9	81·6	83·5
9	81·0	81·0	80·9	80·7	80·4	80·1	80·1	80·9	83·1	85·0	84·9	85·0	85·4	85·8	85·2	85·1	85·3	84·2	84·1	83·0	82·1	82·0	81·6	81·0	82·8
10	81·7	81·1	81·0	81·0	81·0	81·3	81·6	83·0	83·6	84·9	85·2	86·2	87·0	87·0	87·0	86·6	85·6	84·9	84·0	83·0	82·2	82·4	82·0	82·0	83·5
11	81·4	81·1	80·9	80·0	79·9	80·0	80·8	82·0	82·2	83·0	83·1	84·0	83·7	83·6	83·9	84·0	84·9	84·6	84·1	84·4	83·0	82·0	82·0	82·0	82·5
12	81·9	80·9	80·8	80·2	80·2	80·1	81·1	81·8	82·0	82·7	83·0	83·1	84·0	84·4	84·4	84·0	84·0	83·9	82·9	82·0	82·1	81·4	81·0	81·0	82·2
13	80·9	80·8	80·0	80·4	80·0	79·0	79·9	81·8	82·9	83·2	83·6	84·0	84·5	84·5	84·0	84·0	83·9	83·1	83·0	83·0	83·0	83·1	83·0	83·0	82·4
14	83·0	82·9	82·9	82·9	82·9	82·8	83·0	83·2	83·8	82·8	84·1	84·4	84·6	86·5	86·4	85·5	85·5	84·8	84·5	84·0	83·3	83·1	83·0	83·0	83·9
15	83·3	83·3	83·0	83·0	83·2	83·0	82·1	82·9.	82·5	82·9	82·0	83·0	83·2	83·1	83·2	83·0	83·0	82·9	82·2	81·9	81·9	81·5	82·0	81·0	82·7
16	81·1	81·3	81·0	81·0	81·0	81·2	81·6	82·0	82·5	83·0	83·9	83·3	83·0	83·0	83·9	83·0	83·5	83·0	82·9	82·9	82·9	83·0	83·0	83·1	82·5
17	83·0	83·0	83·0	83·1	83·2	83·1	82·0	82·0.	82·3	82·2	82·0	83·0	83·0	83·0	82·4	82·3	82·1	81·4	81·4	81·0	80·2	80·4	80·0	80·2	82·1
18	80·3	80·1	80·2	79·4	80·0	80·1	80·0	80·7	81·0	81·6	82·3	82·7	83·0	83·0	83·0	83·0	82·6	82·2	81·6	81·1	81·0	80·1	80·1	80·4	81·2
19	80·4	80·7	80·4	80·4	80·1	80·0	80·1	80·4	80·9	81·6	82·2	82·9	82·2	82·5	82·9	82·7	82·2	82·1	82·1	82·0	81·8	81·5	81·0	80·5	81·4
20	80·1	80·0	80·0	79·9	80·0	79·6	79·8	79·9	80·6	81·0	81·1	82·2	82·0	82·2	82·0	82·1	82·0	82·0	81·2	80·7	80·3	80·8	80·2	78·9	80·8
21	78·9	79·5	79·5	79·2	79·4	79·2	80·9	80·9	80·3	80·5	81·0	81·1	82·0	82·0	82·0	82·0	82·0	81·5	81·1	80·0	79·9	79·0	78·5	78·0	80·4
22	76·7	75·9	75·2	75·0	75·4	76·0	76·9	79·1	82·4	82·0	82·9	83·0	83·0	83·1	83·2	83·7	83·4	83·1	82·5	81·9	80·0	80·1	80·4	80·0	**80·2**
23	80·0	79·9	80·1	80·0	80·6	79·8	80·2	82·0	81·9	82·5	82·5	82·4	83·0	83·1	83·9	84·3	83·3	82·9	82·4	82·1	82·0	82·2	82·2	82·3	81·9
24	81·2	81·0	81·0	80·9	80·5	80·5	81·0	81·4	81·8	82·5	82·4	82·0	81·1	83·0	83·8	83·6	83·2	82·8	81·9	81·4	81·3	81·0	80·9	80·3	81·7
25	80·4	80·1	80·0	80·0	79·9	80·0	80·8	81·8	82·1	82·8	83·0	83·0	83·0	83·6	83·6	84·0	83·9	83·1	82·8	82·8	82·8	82·1	82·0	82·0	82·0
26	81·0	81·1	81·8	81·9	82·0	82·0	82·5	83·0.	83·1	83·1	82·9	83·7	83·9	83·1	83·1	83·3	83·1	83·1	82·9	82·9	82·8	82·4	82·1	82·1	82·6
27	81·8	81·8	81·9	81·8	82·1	82·0	82·1	82·1.	82·4	83·0	82·9	82·9	83·6	83·9	83·9	83·9	83·6	83·1	83·0	82·1	82·8	81·9	82·3	82·1	82·6
28	82·2	82·5	82·0	82·4	82·4	82·4	82·4	83·0.	83·0	83·0	83·6	84·0	84·9	85·0	85·1	85·1	84·5	84·2	84·0	83·6	83·1	82·7	82·6	82·4	83·3
29	82·1	81·8	81·9	82·0	82·0	82·1	82·6	83·1	83·9	84·5	85·2	85·7	85·9	85·4	85·8	86·0	85·9	85·4	84·7	84·0	83·8	83·9	83·7	83·1	**83·9**
30	83·0	82·9	82·8	82·8	82·7	82·6	82·7	82·9.	83·4	84·0	84·5	86·0	85·2	84·3	84·0	84·0	83·4	83·1	82·9	82·3	82·2	82·1	82·0	81·6	83·3
Mean ...	81·4	81·3	81·1	81·0	81·0	**80·9**	81·1	81·7	82·2	82·7	83·1	83·5	83·7	83·8	**83·8**	83·8	83·5	83·1	82·7	82·3	82·0	81·8	81·6	81·4	82·3
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

362. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t (height of thermometer bulbs above ground) = 1·3 metres.

May, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	81·4	81·3	80·7	80·0	80·3	80·6	80·4	82·0	82·7	83·0	84·9	85·3	84·4	82·9	82·0	82·0	81·5	81·5	80·9	80·0	80·0	80·0	80·1	80·1	81·6
2	80·5	80·0	80·3	79·9	79·3	79·3	81·0	81·0	81·1	81·9	82·0	82·6	83·0	83·4	83·5	82·9	82·9	82·9	82·1	81·5	81·6	81·3	81·6	81·2	81·5
3	80·6	79·7	79·1	78·5	78·6	78·9	80·1	81·9	82·0	81·9	82·0	82·9	82·8	82·1	82·2	82·1	82·1	81·7	81·2	80·9	80·1	80·1	80·0	80·0	**80·9**
4	79·1	80·0	79·6	79·0	79·9	79·5	80·1	80·1	82·0	80·4	82·0	83·0	82·9	83·5	83·5	83·4	81·5	82·7	82·4	81·0	81·3	81·0	79·5	79·5	81·1
5	80·2	79·9	80·0	79·0	79·0	79·3	80·7	82·1	83·0	83·9	83·5	83·0	82·9	83·0	83·7	83·7	82·5	82·2	82·0	81·9	81·5	81·1	81·1	81·0	81·6
6	80·9	81·0	82·1	82·1	82·5	82·4	82·8	82·4	83·0	83·4	82·9	83·1	83·0	84·1	84·8	84·0	83·9	83·4	83·0	82·9	82·2	81·7	81·0	80·2	82·6
7	80·0	79·0	78·8	78·4	78·8	78·9	81·0	83·3	84·0	85·0	85·0	85·3	86·1	85·0	85·1	84·4	85·4	84·8	84·1	84·0	82·0	81·9	81·0	80·7	82·6
8	79·8	79·8	78·5	77·9	77·9	77·4	81·4	82·5	84·6	86·0	86·0	86·0	86·0	86·3	86·5	87·1	87·1	86·5	85·4	84·9	84·2	84·0	84·0	84·4	83·4
9	84·4	84·5	84·8	84·6	84·4	84·3	84·6	85·0	85·0	85·0	85·1	85·3	85·4	85·3	85·6	85·4	85·4	85·1	85·9	85·0	85·0	85·0	85·1	85·0	85·0
10	85·0	85·0	85·0	85·0	85·0	85·1	85·2	85·6	85·3	85·1	85·4	85·9	86·1	86·0	86·1	86·1	85·6	85·3	85·1	85·0	84·9	84·1	85·0	84·9	85·3
11	84·0	83·4	83·5	83·2	83·1	83·8	84·9	85·9	86·7	87·0	87·1	88·0	88·0	87·8	88·0	87·5	87·1	86·9	86·2	85·2	84·1	83·7	83·1	83·0	85·5
12	83·2	83·8	83·3	83·2	83·2	83·9	84·1	84·8	86·0	86·0	86·7	86·5	86·8	86·7	86·3	86·1	86·0	86·0	85·8	85·8	85·7	85·5	85·3	85·0	85·2
13	84·4	84·1	84·1	84·0	84·0	84·1	84·6	85·1	86·0	86·2	86·9	87·0	87·2	88·0	87·7	87·2	87·3	86·0	85·9	85·6	85·0	84·9	84·9	84·8	85·6
14	84·7	84·4	84·6	84·5	84·6	84·7	84·6	85·0	85·5	86·0	87·3	87·7	87·4	88·0	87·1	87·4	87·1	86·7	85·9	85·1	84·5	84·1	83·4	84·0	85·6
15	83·9	83·5	83·4	82·9	82·2	82·0	82·9	84·1	85·9	85·1	86·0	85·1	86·8	86·1	85·9	85·9	85·4	85·0	84·4	84·0	83·9	82·9	81·9	80·9	84·2
16	80·8	80·9	80·9	81·0	81·1	81·1	82·4	83·1	84·0	84·8	86·2	85·1	85·9	86·1	86·0	86·0	85·3	85·0	84·5	83·9	83·0	82·2	82·0	81·4	83·4
17	80·4	79·5	79·0	78·0	77·5	79·0	82·1	83·9	83·9	85·5	85·4	86·0	85·9	85·4	86·7	86·4	85·9	85·3	85·0	84·0	83·0	81·9	80·9	80·0	83·0
18	80·0	79·6	80·1	80·5	79·1	80·0	83·0	85·0	84·9	86·3	85·9	86·1	87·9	86·7	87·0	87·0	86·0	86·2	85·9	85·0	84·7	84·2	84·0	84·0	84·0
19	83·9	84·0	84·0	83·3	82·7	82·6	83·0	83·8	84·1	84·4	85·0	85·0	85·8	86·0	85·8	86·3	86·4	86·0	85·0	84·9	83·5	82·7	82·4	81·0	84·3
20	80·9	79·9	80·1	79·8	81·0	81·2	83·4	84·2	85·0	85·7	85·5	86·1	86·0	86·2	86·1	86·0	85·8	85·1	85·0	85·0	85·0	84·9	84·8	84·7	83·9
21	84·8	84·8	84·7	84·8	84·8	85·0	85·0	84·9	84·2	84·1	84·1	84·1	84·9	84·9	85·0	84·4	85·3	85·1	82·9	82·5	82·4	82·0	83·0	82·7	84·2
22	83·0	83·2	83·0	83·1	83·0	83·2	83·5	85·8	86·0	86·1	87·0	87·2	88·0	87·0	87·0	86·4	86·0	86·0	85·0	84·0	84·2	84·1	84·0	84·5	85·1
23	84·4	84·7	84·4	84·4	84·8	84·8	85·0	85·0	85·9	87·0	86·9	87·5	87·8	87·3	87·9	88·0	87·3	85·5	85·0	84·9	84·5	85·0	84·6	84·3	85·7
24	84·3	84·3	84·6	84·9	85·0	85·1	84·6	85·8	86·1	87·0	86·9	86·1	87·0	87·1	86·9	87·0	86·2	86·1	86·0	85·9	85·4	85·1	85·0	84·9	85·7
25	84·7	84·4	84·3	84·2	84·1	84·7	85·0	85·4	85·0	86·0	86·0	86·0	85·0	84·4	86·0	86·2	86·8	86·4	85·9	85·4	84·0	84·1	84·1	83·2	85·1
26	83·2	83·9	83·9	83·3	83·8	84·0	84·2	85·1	86·1	86·1	86·1	87·2	87·6	87·5	87·9	88·1	87·4	87·0	86·3	86·0	85·0	85·0	85·1	85·0	85·6
27	85·0	84·7	84·4	84·4	84·0	85·0	85·1	86·0	86·6	87·4	88·3	88·4	89·0	89·2	88·0	88·1	89·9	90·0	89·5	88·8	87·3	87·0	87·2	87·0	**87·0**
28	86·6	86·5	86·3	86·3	86·7	86·6	87·4	87·3	87·6	87·5	87·2	87·0	87·0	87·0	87·0	87·6	87·6	87·1	86·8	86·1	85·9	85·9	85·0	85·4	86·8
29	85·3	85·1	85·1	85·0	84·5	85·0	85·1	85·5	85·9	85·2	85·6	86·0	87·2	88·3	86·9	85·0	84·9	85·0	84·6	84·1	84·9	84·7	84·3	84·3	85·3
30	83·8	83·1	83·4	82·4	82·1	83·1	84·0	85·9	86·0	86·5	87·0	88·9	88·9	89·0	88·6	87·0	86·3	85·9	84·9	85·0	85·0	84·9	84·9	84·5	85·5
31	84·8	84·6	83·9	83·9	84·0	84·3	84·9	85·0	85·8	85·5	86·1	86·4	87·0	87·0	86·1	87·0	87·5	86·5	86·4	86·0	85·3	84·9	84·7	84·6	85·5
Mean ...	82·8	82·7	82·6	82·3	**82·3**	82·5	83·5	84·3	84·8	85·2	85·5	85·8	**86·1**	86·0	86·0	85·9	85·7	85·3	84·8	84·3	83·8	83·5	83·3	83·1	84·3

363. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t = 1·3 metres.

June, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	85·0	84·1	84·2	84·5	84·8	85·0	85·0	85·6	85·9	86·1	86·8	87·1	88·1	88·4	88·1	88·5	87·9	87·8	87·0	86·3	85·7	85·3	85·4	85·4	86·1
2	85·1	85·4	86·0	86·1	86·2	86·4	86·6	86·9	87·0	87·0	87·0	87·0	87·0	87·1	87·0	86·9	86·9	86·9	86·9	86·4	86·4	86·3	86·2	86·1	86·5
3	86·1	86·0	86·0	85·9	85·8	85·8	86·0	86·1	86·8	86·8	87·7	88·3	88·1	88·4	89·4	90·0	90·1	90·0	89·3	88·2	88·7	88·8	88·1	88·4	87·7
4	88·7	88·7	88·6	89·0	89·3	90·0	90·1	90·2	90·5	91·0	91·8	92·0	92·2	91·7	91·1	91·0	89·7	88·0	89·4	89·3	88·8	89·0	89·0	88·7	**89·9**
5	88·1	88·1	88·0	88·0	87·9	87·9	87·9	88·0	88·6	90·0	90·0	89·8	89·1	89·2	89·0	88·2	88·0	87·9	87·1	87·0	87·0	86·9	86·2	86·1	88·1
6	86·0	86·0	84·9	84·9	85·1	85·7	86·1	87·1	87·0	87·5	87·4	88·2	89·1	89·2	90·0	89·9	89·0	88·8	88·0	87·9	87·0	86·4	86·4	86·6	87·2
7	86·5	86·4	86·0	86·2	86·4	87·0	86·9	86·4	86·5	86·2	86·1	86·0	86·3	87·9	87·7	88·1	88·2	88·2	88·0	87·9	87·0	87·1	87·1	87·0	87·0
8	87·0	86·8	86·9	87·0	87·0	87·0	87·0	88·0	88·4	88·3	89·9	90·0	89·7	89·9	89·5	89·5	89·9	89·0	88·0	87·4	86·8	86·2	86·6	86·1	88·0
9	86·0	86·1	86·8	86·9	86·9	87·3	87·3	87·3	87·9	88·0	88·5	89·1	90·0	90·0	89·0	88·6	88·0	88·1	88·0	88·0	87·4	87·1	87·4	87·4	87·8
10	87·5	87·5	87·4	87·6	87·2	87·6	87·7	87·9	87·9	88·0	88·2	88·8	88·1	88·9	88·9	87·9	87·0	86·4	86·4	86·2	86·0	86·5	85·6	85·0	87·4
11	83·9	83·1	82·9	82·2	82·9	83·9	86·2	87·9	88·0	87·0	86·1	85·7	86·1	85·9	86·0	85·7	85·3	85·8	86·0	85·9	85·0	85·0	85·0	85·0	85·3
12	85·0	85·0	84·8	84·2	84·4	84·8	85·9	86·0	87·0	87·9	89·0	89·0	88·9	89·0	89·0	89·0	88·2	88·0	87·9	87·0	85·9	85·2	84·0	83·9	86·6
13	83·9	83·9	83·9	84·0	84·0	85·4	86·9	87·2	88·0	88·0	88·0	87·9	87·9	87·9	87·3	86·2	86·1	86·1	86·4	86·1	86·0	85·6	85·8	85·8	86·1
14	85·9	86·0	87·1	87·3	87·4	87·3	87·3	87·2	86·1	86·8	86·6	86·5	85·1	85·1	85·9	86·4	86·9	86·0	86·1	85·7	85·4	85·7	85·7	85·1	86·3
15	85·0	85·5	85·8	85·9	85·9	86·4	86·0	86·3	86·7	86·2	86·1	86·1	86·0	86·2	86·6	86·8	86·9	86·8	85·9	85·1	85·1	84·8	84·7	85·0	85·9
16	84·9	85·0	84·3	84·1	84·1	85·3	86·9	86·3	86·7	88·0	88·9	89·4	89·3	89·0	89·0	89·5	89·7	88·3	87·6	87·2	86·0	84·9	84·1	83·9	86·8
17	82·9	82·7	82·0	81·9	81·9	82·5	84·0	87·0	88·2	88·1	88·6	88·0	88·1	88·0	88·3	88·1	87·9	87·5	87·1	85·5	86·4	86·3	86·5	86·3	85·9
18	86·0	86·0	85·9	85·1	85·1	85·9	85·9	86·0	87·0	87·0	86·9	87·0	87·8	88·4	88·0	88·0	86·8	87·0	86·0	84·9	84·4	83·9	84·0	84·2	86·2
19	84·8	84·6	84·9	84·8	85·0	85·0	85·3	85·0	84·6	85·1	86·0	86·0	85·8	86·0	86·1	86·0	86·0	85·5	85·4	85·0	84·7	84·1	84·0	84·0	85·2
20	84·0	84·0	84·0	84·0	84·0	84·0	84·4	84·7	85·8	85·9	86·2	87·0	87·1	87·0	87·1	86·2	86·4	86·4	86·0	86·1	86·3	86·2	86·2	86·1	85·6
21	86·0	86·0	86·0	86·0	86·0	86·0	86·2	86·6	87·1	88·2	88·0	87·6	87·4	87·3	88·0	87·9	87·5	87·1	87·1	87·0	86·9	86·9	86·8	86·9	86·9
22	86·9	86·9	86·2	85·6	85·4	86·0	86·0	86·2	86·4	87·0	87·1	88·0	88·1	87·9	88·0	87·3	87·0	87·0	87·0	86·9	86·4	86·5	86·6	86·5	86·8
23	86·7	86·8	86·8	86·8	86·9	86·9	87·0	87·3	87·3	87·2	87·6	87·6	87·4	87·5	87·9	87·6	87·1	87·7	87·5	87·3	86·9	86·4	86·3	86·2	87·1
24	86·1	86·1	86·1	86·3	86·6	86·9	87·0	88·0	89·9	89·9	90·6	91·2	91·0	89·7	91·0	91·0	91·0	90·6	89·4	89·0	88·1	87·0	86·8	86·4	88·6
25	86·5	86·1	86·1	86·4	86·9	87·0	87·6	88·5	89·9	89·6	90·0	90·0	90·0	90·2	90·0	90·0	89·6	89·1	88·9	88·3	88·1	88·0	88·0	88·0	88·4
26	88·0	88·0	88·0	87·9	87·8	87·7	87·8	88·2	88·0	88·0	88·0	88·9	88·6	88·1	88·0	88·2	88·6	88·4	88·2	88·2	87·9	88·0	87·9	87·6	88·1
27	87·9	87·9	87·8	87·9	87·9	87·9	88·0	88·2	88·7	89·1	90·0	90·0	90·1	89·9	89·0	89·0	89·0	89·1	89·0	88·5	88·1	88·1	88·1	88·2	88·6
28	88·0	87·9	87·0	86·9	86·3	86·1	86·0	86·0	86·2	86·4	87·0	87·1	87·9	88·0	88·0	88·0	88·1	88·0	87·1	87·0	86·5	86·1	86·1	86·1	87·0
29	86·0	85·1	85·0	85·2	85·7	85·9	86·3	86·5	87·1	87·1	88·1	88·8	88·5	88·2	88·0	88·9	88·9	87·9	87·1	86·9	85·9	85·0	83·9	82·2	86·7
30	82·3	81·9	82·0	81·7	82·3	83·0	83·4	84·4	85·1	85·5	86·1	86·4	86·8	86·9	87·1	87·0	87·0	86·9	86·7	86·4	86·5	86·9	86·2	86·0	**85·1**
Mean ...	85·9	85·8	85·7	**85·7**	85·8	86·1	86·5	86·9	87·3	87·6	87·9	88·1	88·2	88·2	**88·3**	88·2	88·0	87·7	87·3	87·0	86·6	86·3	86·2	86·0	87·0
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

364. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t (height of thermometer bulbs above ground) = 1·3 metres.

July, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	86·0	86·0	86·0	86·0	86·0	86·4	86·4	87·0	88·0	87·9	89·0	88·1	88·1	88·6	88·2	87·8	87·4	87·2	86·9	86·6	86·7	87·0	87·3	87·4	87·1
2	87·8	87·0	86·4	86·0	85·9	86·0	85·9	86·1	87·0	87·4	88·0	87·9	88·9	89·2	89·0	89·0	88·9	88·4	88·1	87·4	87·0	87·1	87·5	87·5	87·5
3	87·1	87·0	87·0	87·0	87·0	87·9	88·0	88·2	88·8	88·8	88·8	89·9	89·9	90·1	91·3	90·3	89·3	89·0	89·1	88·1	87·9	87·7	87·1	87·2	88·4
4	85·9	86·5	85·7	86·0	85·6	86·0	88·2	89·0	89·7	88·6	89·1	90·0	90·5	90·4	90·6	91·3	90·9	90·0	89·1	88·0	87·0	86·4	86·0	85·4	88·2
5	85·7	85·0	84·6	84·7	84·1	84·6	86·9	87·2	88·0	88·2	88·6	88·2	87·9	87·8	87·9	88·2	88·2	87·9	87·0	86·9	86·0	85·0	84·1	84·0	86·6
6	85·0	84·2	83·7	83·1	82·4	85·0	86·0	86·0	86·0	87·0	85·3	86·4	87·7	87·7	87·7	88·0	87·1	87·1	87·0	86·2	85·9	85·5	85·3	85·2	85·8
7	85·7	85·6	85·9	85·9	85·1	85·5	85·6	86·0	85·0	85·4	86·1	86·0	86·0	85·7	86·8	86·5	86·1	86·7	86·0	85·0	85·2	85·0	85·0	85·1	**85·7**
8	85·2	85·3	85·2	85·4	85·4	85·6	86·0	86·1	87·2	87·2	88·1	88·9	88·7	88·6	89·0	89·4	89·1	88·5	87·4	87·0	85·9	85·3	84·6	83·9	86·8
9	83·0	82·4	81·1	81·0	80·6	82·2	85·0	87·0	88·5	89·6	89·0	89·8	89·9	89·1	88·9	89·6	89·9	88·9	88·9	88·0	87·5	87·0	87·0	86·6	86·6
10	87·0	87·0	87·5	87·1	87·0	87·1	87·9	89·0	90·0	91·0	89·0	89·7	89·7	90·0	90·3	90·3	91·0	91·0	90·0	88·2	87·7	87·0	87·0	86·9	88·7
11	86·9	87·1	86·7	86·4	86·1	87·1	88·4	90·0	90·9	91·2	91·9	92·0	92·0	91·0	90·5	88·2	88·0	88·1	88·1	88·3	87·5	87·3	87·6	87·7	88·7
12	87·2	87·4	87·2	86·8	86·3	86·4	87·3	88·7	90·0	91·0	91·4	91·8	92·0	91·4	90·6	90·1	90·2	89·3	89·4	88·6	88·0	87·0	87·0	87·0	**88·9**
13	87·0	87·0	86·1	86·0	86·4	86·9	88·0	89·0	90·2	90·4	90·8	90·0	89·0	89·0	88·9	88·9	88·0	87·9	87·9	87·1	87·1	87·0	86·9	87·1	88·0
14	86·9	86·9	86·3	86·1	86·3	86·6	87·1	86·4	87·8	88·0	88·0	89·0	88·9	89·7	89·1	89·1	89·0	88·8	88·2	87·9	87·1	86·9	86·6	86·4	87·6
15	86·6	86·0	86·2	86·0	86·0	87·0	87·3	88·1	88·8	88·9	89·0	89·0	89·0	89·8	89·4	90·1	89·9	89·4	88·9	88·2	88·0	88·0	88·0	88·0	88·1
16	88·0	87·9	87·4	87·9	87·9	88·0	88·9	90·0	88·6	89·0	88·9	89·3	90·0	90·1	90·4	90·0	90·1	89·0	88·9	88·1	88·0	88·0	87·5	87·9	88·7
17	87·4	87·9	87·9	87·9	88·1	88·2	88·3	88·9	89·0	89·1	89·7	90·0	90·0	90·0	90·0	89·3	88·9	88·4	88·0	88·0	87·8	87·4	87·3	87·0	88·5
18	87·0	87·1	87·0	86·3	87·0	86·7	86·6	86·7	87·0	87·0	87·5	88·0	88·9	89·1	89·4	90·0	90·0	89·0	88·0	87·2	87·0	87·0	86·4	86·7	87·6
19	86·9	87·0	86·4	86·8	86·9	87·0	86·8	87·0	87·1	86·9	87·1	87·3	89·0	88·9	88·5	88·4	87·5	88·0	87·4	87·1	86·6	86·1	86·0	86·0	87·2
20	86·1	86·1	86·0	85·9	85·7	86·0	86·1	86·9	86·8	87·2	87·1	88·3	88·2	88·2	89·5	89·0	88·1	88·1	87·8	87·3	86·3	86·0	85·5	85·4	87·0
21	85·3	85·5	85·5	85·3	85·9	86·3	86·9	87·6	87·9	88·0	89·5	90·0	90·0	90·1	91·0	90·6	91·0	90·1	89·1	88·8	88·3	88·0	87·5	87·9	88·1
22	87·9	87·9	87·9	88·4	88·4	88·3	88·4	88·7	88·9	89·1	89·1	90·0	89·1	89·1	89·6	89·4	90·0	89·6	88·3	88·0	87·1	87·0	86·6	86·8	88·5
23	86·8	86·9	86·0	86·3	85·8	85·9	86·2	87·0	87·8	88·8	89·1	90·7	90·9	89·2	90·5	90·7	90·0	89·0	88·5	87·9	87·1	87·0	87·1	86·9	88·0
24	86·9	86·1	86·8	87·0	86·3	86·2	87·1	86·9	87·0	87·4	88·1	89·1	90·0	89·5	89·0	88·4	88·5	88·0	87·8	87·7	87·9	87·5	87·4	87·5	87·7
25	87·3	87·1	87·1	87·1	87·0	87·0	86·6	86·4	86·6	87·3	88·0	88·0	88·4	88·1	89·1	89·2	88·3	88·0	87·9	87·1	86·9	85·7	85·6	85·1	87·3
26	85·0	84·9	84·8	84·6	84·7	84·9	85·4	87·0	88·0	88·1	88·9	88·0	88·1	88·3	88·9	88·1	87·6	87·2	87·0	86·9	86·6	86·1	86·5	86·4	86·7
27	86·2	86·5	86·5	86·7	86·1	86·7	86·0	87·0	87·2	88·1	88·6	88·6	88·9	88·9	89·0	88·9	88·8	88·0	87·9	87·1	87·0	86·9	86·9	86·1	87·4
28	86·0	86·8	86·9	86·7	86·0	85·3	86·4	86·1	87·2	88·0	88·7	89·1	89·0	88·9	88·6	89·0	89·0	88·6	88·3	88·0	87·5	86·8	87·1	87·3	87·5
29	87·5	87·1	87·1	87·4	87·7	87·9	87·9	88·0	88·0	88·7	89·0	89·1	89·7	89·9	89·9	89·4	89·1	88·9	88·9	88·4	88·2	88·0	88·0	87·3	88·4
30	87·1	87·0	87·0	86·6	86·4	87·0	87·0	87·4	88·0	89·0	89·1	89·8	89·6	88·7	89·0	89·5	89·0	89·0	88·4	87·2	87·1	86·5	86·5	86·9	87·9
31	86·9	86·8	86·3	86·1	86·2	86·2	86·2	87·0	88·0	89·0	89·0	89·7	89·0	89·2	88·5	88·5	89·0	88·4	88·9	88·0	87·6	87·4	87·0	86·4	87·7
Mean ...	86·5	86·4	86·2	86·1	**86·0**	86·4	86·9	87·5	88·0	88·4	88·7	89·1	89·3	89·2	**89·3**	89·2	89·0	88·6	88·2	87·6	87·1	86·8	86·6	86·5	87·7

365. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t = 1·3 metres.

August, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	85·9	85·6	85·4	85·0	84·4	84·0	87·1	89·0	90·0	90·2	90·0	89·9	90·5	90·5	91·3	90·5	90·1	90·0	89·5	88·5	87·9	87·6	88·0	87·9	88·3
2	87·9	88·0	88·1	88·0	87·7	87·0	88·4	89·1	90·2	90·9	90·5	91·0	91·5	91·3	92·0	92·0	92·0	91·6	90·7	89·3	89·0	88·6	88·5	88·1	89·6
3	89·0	89·1	89·3	88·9	88·9	88·3	89·4	90·7	91·2	92·0	91·9	92·6	93·1	94·1	94·7	94·6	95·0	94·0	93·7	92·5	91·9	92·0	91·0	90·1	91·5
4	90·0	89·3	89·4	88·9	88·2	88·2	89·0	91·0	91·6	92·4	93·0	93·9	94·6	95·0	95·1	95·0	95·1	95·2	95·4	94·2	93·0	92·6	92·4	91·6	92·2
5	91·5	91·0	90·0	90·0	90·0	89·9	91·3	93·2	95·0	95·7	96·0	96·4	96·4	97·2	96·0	96·2	96·2	95·6	93·6	92·1	91·4	90·3	90·1	89·3	**93·1**
6	89·1	88·2	88·0	88·0	87·8	87·7	88·0	88·4	89·3	89·2	90·2	90·4	90·0	91·0	91·5	90·6	90·1	89·4	89·3	89·0	88·6	88·2	88·0	88·1	89·1
7	87·9	87·9	87·8	87·1	86·6	86·6	87·1	88·4	89·5	89·1	89·7	89·9	89·9	88·6	87·8	88·0	86·5	87·0	86·7	86·5	86·1	85·5	85·6	85·5	87·6
8	85·4	86·0	86·0	86·2	85·9	85·1	85·3	86·1	86·2	85·7	86·5	86·9	87·7	87·4	87·7	87·4	87·9	87·1	86·8	86·5	86·5	86·3	86·4	86·4	86·5
9	86·2	86·4	86·1	85·6	86·1	86·0	86·2	86·4	86·8	87·0	87·5	87·9	88·0	88·0	88·1	87·5	86·4	86·4	86·9	86·9	86·8	86·4	86·5	86·5	86·8
10	86·5	86·4	86·5	86·6	86·4	86·4	86·4	87·0	87·0	87·4	87·6	87·7	87·5	87·6	88·0	87·1	87·6	87·5	87·1	87·1	87·0	87·0	86·6	86·6	87·0
11	86·9	86·6	86·9	87·0	86·5	86·8	87·1	87·8	89·2	90·0	90·0	90·0	89·9	89·9	90·0	89·6	89·5	89·0	88·8	88·3	88·0	88·0	88·0	87·7	88·4
12	87·7	87·6	87·5	87·4	87·4	87·4	87·7	88·2	90·0	90·4	90·1	90·4	90·0	90·5	91·3	91·7	91·4	90·2	89·5	88·0	87·4	87·0	86·8	87·1	88·9
13	87·0	87·0	87·4	87·2	87·3	87·2	87·7	87·9	88·1	89·0	88·5	88·9	88·8	89·0	88·1	88·5	88·1	88·0	88·3	88·5	88·3	87·8	87·9	88·6	88·0
14	89·0	89·2	89·0	88·4	87·7	87·4	87·4	87·8	88·1	89·0	89·0	90·1	90·2	90·1	90·1	90·0	89·9	89·3	88·8	88·1	88·1	88·2	88·4	88·5	88·8
15	88·5	88·3	87·0	86·1	87·1	87·4	87·6	88·0	88·1	88·7	89·0	89·0	89·2	89·5	88·4	88·5	87·8	87·8	88·0	88·0	87·9	87·8	87·8	87·6	88·1
16	87·3	87·4	87·4	87·5	87·2	87·2	87·4	87·9	88·0	87·6	88·7	89·0	89·4	89·4	88·8	89·1	89·1	88·9	88·5	88·2	88·0	87·9	87·6	87·6	88·1
17	87·0	87·2	87·0	86·6	86·4	86·0	87·0	87·9	89·0	89·0	89·5	90·0	89·6	89·6	90·0	90·7	90·0	89·5	89·0	88·0	87·0	87·0	87·0	86·5	88·2
18	86·6	86·8	86·4	85·9	86·4	86·8	87·0	87·6	88·8	88·8	89·0	89·0	89·0	89·9	90·2	90·0	89·0	88·4	88·4	88·3	87·0	87·0	86·3	87·0	87·9
19	87·3	87·9	88·4	87·9	88·1	88·0	88·2	88·4	88·8	89·0	87·1	86·9	86·9	87·0	86·8	87·1	86·2	86·3	86·7	86·7	86·4	86·5	86·1	86·1	87·3
20	86·0	85·9	85·9	86·0	86·2	86·4	86·4	86·7	86·4	86·4	86·6	86·4	86·9	86·4	87·0	87·0	87·2	86·9	86·4	86·0	86·0	86·3	86·5	86·1	86·4
21	86·0	86·1	86·1	85·3	85·0	85·0	84·9	86·0	87·1	87·0	87·3	87·8	87·9	88·4	87·5	88·0	87·5	87·7	87·2	86·7	86·0	85·7	85·4	84·7	86·5
22	84·5	83·8	83·1	83·9	83·6	83·7	84·6	85·9	86·1	86·4	87·0	87·6	88·0	88·0	88·0	88·0	87·3	87·0	85·9	84·3	83·3	83·4	83·6	82·0	85·4
23	81·1	81·3	81·9	82·2	81·5	81·4	83·6	84·6	85·6	86·1	86·9	87·7	88·0	88·0	88·0	88·4	88·1	87·9	87·0	85·4	85·0	84·4	84·5	84·1	85·1
24	84·0	84·0	83·2	83·1	83·0	83·0	84·0	84·6	86·0	87·0	88·0	88·9	89·7	89·8	89·9	89·9	89·2	88·5	87·0	85·8	84·3	83·8	83·4	83·0	86·0
25	82·9	82·1	81·0	79·9	79·3	80·1	80·3	83·6	85·0	86·3	87·2	87·8	88·1	88·4	88·4	88·3	88·0	87·3	86·9	84·9	83·0	82·3	81·9	81·4	**84·4**
26	81·2	81·2	80·7	80·3	82·8	84·1	85·0	86·4	87·4	88·0	89·0	88·7	89·0	89·0	88·9	88·5	88·2	88·3	88·0	88·0	88·0	88·0	88·1	88·3	86·3
27	88·1	88·1	88·1	88·1	88·2	88·4	88·2	88·4	88·2	87·8	87·9	88·0	88·3	88·3	88·5	88·5	88·1	88·0	87·9	87·7	87·8	87·9	88·0	88·0	88·1
28	88·0	88·0	88·0	88·0	88·0	88·0	88·2	88·4	87·9	88·1	88·4	88·9	89·0	89·9	90·1	89·3	89·3	89·9	89·1	88·8	88·9	88·0	88·1	88·0	88·6
29	88·0	87·3	87·8	87·9	87·3	86·9	87·0	87·3	89·1	89·3	90·1	90·0	90·0	90·9	90·5	90·5	90·7	90·0	90·0	88·9	87·7	87·0	86·3	86·8	88·6
30	86·8	87·0	87·0	87·0	86·9	86·9	86·4	87·0	87·5	88·1	88·9	90·0	90·0	90·0	89·7	89·5	89·2	88·9	88·1	87·6	86·8	86·0	85·9	86·0	87·8
31	86·2	85·7	85·0	85·1	85·1	84·9	85·4	86·6	88·0	90·0	90·1	91·0	91·2	91·5	92·0	90·3	90·0	89·8	89·5	89·2	89·2	89·2	89·0	89·0	88·4
Mean ...	86·8	86·7	86·5	86·3	86·2	**86·2**	86·8	87·6	88·4	88·7	89·1	89·4	89·6	89·8	**89·8**	89·7	89·4	89·1	88·6	88·0	87·5	87·2	87·1	86·9	88·0
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

366. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t (height of thermometer bulbs above ground) = 1·3 metres.

September, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	88·9	88·1	88·6	88·8	88·3	88·0	87·7	88·2	89·0	90·0	90·2	91·1	91·2	90·6	90·0	90·1	89·1	88·5	88·4	88·1	88·0	87·6	87·6	87·4	**88·9**
2	87·5	87·5	87·2	86·9	86·9	87·0	87·0	88·0	88·9	89·3	87·0	87·0	87·6	88·0	89·3	88·8	88·3	87·0	87·1	86·7	86·4	86·4	86·2	85·8	87·4
3	85·9	86·1	86·0	85·9	85·9	85·9	86·0	86·0	85·0	85·0	84·7	84·4	84·4	84·4	85·0	85·1	85·4	85·6	85·4	85·0	85·0	84·9	84·9	84·4	85·3
4	85·0	84·9	84·1	83·8	84·3	84·4	84·4	84·7	85·2	86·1	86·0	86·0	86·1	87·0	85·8	86·3	86·1	85·9	85·0	84·8	84·4	84·0	84·0	83·4	85·1
5	83·9	84·0	83·1	83·9	84·0	84·0	84·1	84·4	85·7	85·9	86·3	85·7	86·3	86·3	86·1	86·5	86·5	85·9	85·0	84·4	84·3	84·0	83·6	84·0	84·9
6	83·5	82·9	82·9	82·2	82·0	80·8	80·2	81·9	84·3	85·2	86·0	86·8	86·8	86·4	87·0	86·9	86·0	85·9	85·0	83·7	83·3	82·9	82·3	82·0	84·1
7	81·0	81·1	81·0	79·6	78·9	78·4	78·2	81·8	83·9	85·1	86·0	86·7	87·0	87·6	87·9	87·9	87·6	87·0	85·9	85·1	83·4	83·0	82·4	81·8	**83·7**
8	80·9	80·6	81·1	81·7	82·0	82·5	83·1	84·1	85·4	86·0	86·6	87·0	87·5	87·3	87·9	87·4	87·1	86·9	86·0	85·7	85·1	85·2	85·0	84·3	84·8
9	84·0	83·9	83·1	83·1	83·1	82·9	83·1	84·0	84·6	87·0	87·8	87·2	87·4	87·8	87·9	87·2	87·0	86·4	85·6	85·0	84·4	84·4	83·9	83·4	85·2
10	82·8	82·5	82·4	81·9	81·1	80·1	80·0	82·1	84·9	86·0	86·4	86·8	87·0	87·1	87·0	87·0	86·9	86·1	85·6	85·4	84·2	84·7	85·0	85·0	84·5
11	84·9	84·1	84·7	85·0	85·0	85·0	85·0	85·9	86·8	87·0	87·4	88·0	87·9	87·9	87·4	87·4	87·1	87·0	86·7	85·5	85·4	85·3	86·2	86·7	86·2
12	86·9	86·8	87·0	87·0	87·0	87·0	87·1	87·0	87·3	87·8	87·9	88·0	88·0	88·0	87·9	87·8	87·8	87·7	87·4	87·3	87·0	87·1	87·0	86·7	87·4
13	86·7	86·7	86·8	86·6	86·5	86·3	86·4	86·9	87·0	87·8	88·0	88·0	88·0	88·8	88·1	88·1	88·0	87·8	87·8	87·6	87·6	87·3	87·4	87·4	87·4
14	87·3	87·4	87·2	87·1	87·0	87·1	87·0	87·0	87·4	87·6	88·1	88·8	88·9	88·4	88·4	88·0	88·1	88·1	88·0	87·9	87·7	87·3	87·1	87·1	87·7
15	87·0	86·9	86·9	86·9	86·4	86·8	86·3	86·7	87·3	88·8	89·1	89·9	90·1	90·6	90·2	89·9	88·9	88·3	87·6	87·1	86·8	86·9	86·5	86·5	87·9
16	86·9	87·0	87·0	87·1	87·0	86·8	87·0	87·4	87·9	88·8	88·4	89·1	89·0	89·0	88·3	87·9	87·9	87·7	87·9	87·9	87·9	87·9	87·9	87·9	87·8
17	87·9	87·9	88·0	88·0	88·0	88·0	88·0	88·0	88·0	87·9	88·0	88·0	88·0	88·0	88·0	88·0	88·0	88·0	87·6	87·6	87·6	87·6	87·6	87·4	87·9
18	87·3	87·5	87·5	87·4	87·5	87·5	87·8	87·9	88·0	88·2	89·0	89·9	90·5	90·1	90·0	89·2	89·2	88·9	88·6	88·9	88·1	88·0	88·1	88·4	88·5
19	88·6	88·1	87·9	88·1	87·6	87·9	88·0	89·0	90·0	89·8	89·8	90·4	91·0	90·1	89·1	90·0	88·6	89·0	88·0	88·1	87·1	87·1	86·2	86·2	88·6
20	86·0	86·1	85·9	85·3	84·9	84·3	84·9	86·0	86·9	88·0	88·6	89·3	89·9	90·0	90·1	90·1	90·0	89·0	87·8	86·1	86·0	85·5	85·1	84·4	87·1
21	83·7	83·6	83·1	82·9	82·4	82·0	82·2	84·0	87·2	87·8	89·2	89·3	90·0	90·0	90·0	89·9	89·4	88·7	87·3	87·0	86·2	85·9	85·1	85·0	86·3
22	83·9	83·1	81·9	82·4	81·0	81·0	82·0	81·9	84·2	85·6	86·4	87·0	87·6	88·0	88·0	88·0	87·1	86·1	84·1	83·3	82·1	81·0	80·9	80·0	84·1
23	79·7	79·4	79·2	79·0	79·0	79·0	79·0	80·2	83·2	86·1	87·8	88·3	88·9	88·6	89·0	89·0	89·0	88·3	87·1	87·6	86·5	87·0	86·1	85·1	84·6
24	84·6	85·4	85·6	85·1	84·1	84·2	82·9	82·9	85·3	87·9	88·2	88·9	89·0	88·9	88·4	88·1	88·0	87·5	87·1	87·0	86·5	86·0	86·0	86·5	86·4
25	86·5	86·1	86·0	85·9	85·8	85·1	85·7	86·0	86·1	86·9	87·0	87·7	88·0	88·1	88·0	87·9	87·6	87·0	86·9	86·3	86·7	86·3	86·3	85·9	86·7
26	85·2	85·3	85·8	86·1	85·0	85·0	85·1	86·0	86·5	87·0	87·3	87·9	87·9	87·2	87·9	87·7	87·2	87·0	86·2	86·0	85·4	85·2	84·1	82·1	86·2
27	82·5	83·4	83·1	83·9	84·1	84·0	84·1	84·1	84·9	86·0	86·5	87·0	87·1	87·9	87·0	87·1	87·0	86·6	86·0	85·7	85·2	85·0	84·7	84·1	85·3
28	84·2	83·9	83·3	83·1	83·0	84·0	83·9	84·0	84·5	85·9	86·8	86·8	86·9	86·8	86·6	86·2	86·0	86·0	85·4	85·9	85·9	85·8	85·9	85·9	85·2
29	85·9	85·8	85·9	86·0	85·9	86·0	86·0	86·4	86·6	86·4	86·1	85·9	85·9	86·2	86·0	86·0	86·0	86·0	85·2	86·0	86·1	86·0	85·8	86·0	86·0
30	86·1	85·9	86·0	86·0	86·0	85·9	85·8	86·0	86·4	87·0	87·3	87·4	87·8	87·9	87·1	87·8	87·2	86·1	86·3	86·1	85·7	86·0	86·0	84·9	86·5
Mean ...	85·2	85·1	84·9	84·9	84·7	**84·6**	84·6	85·3	86·3	87·1	87·5	87·8	88·1	**88·1**	88·0	87·9	87·6	87·2	86·6	86·3	85·9	85·7	85·5	85·2	86·3

367. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t = 1·3 metres.

October, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	85·0	85·0	84·9	85·0	85·4	85·6	85·9	86·2	86·9	87·1	87·9	88·3	88·9	88·3	89·0	88·4	88·2	88·3	88·3	88·4	88·4	88·4	88·5	88·5	87·2
2	88·4	88·4	88·8	88·9	89·0	88·9	87·7	87·0	87·0	87·3	88·0	88·0	88·0	88·7	88·1	87·9	87·7	87·0	86·8	86·9	86·6	86·5	86·6	86·1	87·7
3	86·1	85·2	84·9	84·8	85·4	84·8	84·0	83·1	86·7	86·5	87·6	88·0	88·0	87·9	87·1	87·7	87·8	88·0	88·0	88·0	88·0	88·0	88·0	88·0	86·7
4	88·0	88·0	88·0	88·0	88·1	88·1	88·2	88·2	88·4	88·4	88·8	89·0	89·0	89·4	89·0	88·9	88·9	88·8	88·5	88·2	88·2	88·0	88·0	87·9	**88·4**
5	87·9	87·9	87·8	87·4	87·1	87·2	87·3	87·4	87·4	88·0	88·1	88·2	88·1	88·1	88·0	87·9	87·5	87·1	87·0	86·9	87·0	87·0	87·0	87·0	87·5
6	87·0	87·1	87·0	87·4	87·0	87·0	87·0	87·1	87·9	86·4	86·4	87·0	86·9	87·0	86·5	86·9	86·4	85·8	86·0	85·9	85·9	85·9	85·7	84·2	86·6
7	84·0	82·7	84·4	84·7	85·1	83·0	84·4	84·0	84·7	84·1	85·9	86·2	86·1	86·4	86·3	86·6	86·2	86·1	86·0	86·1	86·0	86·0	86·9	87·0	85·3
8	87·1	87·2	87·2	87·1	87·3	87·2	87·1	87·4	87·9	88·0	88·0	88·5	88·4	88·5	88·4	88·2	88·0	87·7	87·4	87·4	87·2	87·2	87·1	87·2	87·6
9	87·2	87·0	87·0	87·2	87·2	87·0	87·1	87·2	87·7	87·5	86·2	86·3	87·1	87·8	87·7	87·8	87·3	86·4	86·0	85·1	85·1	85·0	84·7	84·0	86·7
10	84·0	82·9	81·9	81·1	80·2	80·0	80·3	80·0	82·3	84·9	86·0	86·9	87·1	87·8	87·6	87·0	86·9	85·5	84·4	84·1	84·7	85·2	85·8	85·6	84·2
11	85·0	85·0	85·6	85·8	85·8	85·6	85·9	86·3	87·0	87·0	88·0	88·2	88·5	88·6	88·6	88·1	87·4	87·0	86·5	86·1	86·2	85·4	86·2	86·0	86·7
12	85·9	85·9	85·4	85·6	85·4	86·0	86·0	86·0	86·1	86·5	86·4	85·0	84·0	84·0	84·0	84·7	84·8	84·5	84·1	84·1	84·1	84·1	84·0	83·8	85·1
13	83·7	84·0	84·2	84·0	84·3	84·3	84·4	84·1	85·3	86·0	86·0	86·4	86·9	87·0	86·8	86·1	85·5	85·1	84·5	83·1	82·5	82·1	82·0	81·0	84·6
14	80·9	80·4	79·8	79·3	79·0	78·5	78·1	77·9	80·0	82·0	83·7	85·1	85·9	86·0	85·9	85·6	85·4	83·9	82·9	82·3	81·7	81·8	80·1	81·6	82·0
15	81·9	82·4	80·0	81·0	82·1	80·7	81·9	83·3	84·0	85·1	86·3	87·0	86·7	86·8	87·0	87·0	86·7	85·5	85·1	84·9	84·1	84·0	84·8	85·0	84·2
16	84·9	84·9	84·9	84·3	84·0	83·1	82·3	84·0	85·0	86·0	86·8	87·2	87·9	88·0	87·9	87·9	87·0	86·1	85·1	85·6	84·9	84·1	84·1	84·9	85·5
17	85·1	85·1	85·7	86·0	86·0	86·1	86·0	86·1	86·1	86·6	87·4	87·1	86·9	87·1	86·8	86·3	86·0	86·0	86·1	86·0	86·0	85·9	85·9	85·4	86·1
18	85·5	85·4	85·6	85·5	85·0	85·0	85·2	85·1	85·0	85·3	86·0	86·0	86·1	86·2	86·2	86·0	85·6	85·3	85·0	85·0	85·0	85·0	84·9	84·8	85·4
19	84·0	83·4	82·9	82·5	81·4	80·6	80·1	80·3	81·1	82·9	83·5	84·6	85·0	84·9	84·5	84·4	84·1	84·0	84·0	83·8	83·9	83·6	83·3	83·1	83·2
20	82·9	82·9	82·3	81·1	80·1	81·0	82·3	83·0	83·9	85·0	85·9	85·5	85·4	85·0	82·1	82·0	82·0	81·9	81·0	80·2	80·0	79·1	79·5	79·4	82·3
21	78·7	79·0	78·4	78·0	78·4	78·1	78·3	78·8	78·9	80·0	82·0	82·2	82·9	83·0	83·0	82·3	82·0	81·1	80·7	80·2	79·9	79·8	80·0	81·1	80·2
22	81·4	81·5	81·4	82·0	81·9	81·3	81·2	81·9	82·5	84·0	84·0	84·0	84·4	84·2	84·1	84·1	84·1	84·0	83·9	83·9	83·4	83·4	83·4	83·4	83·0
23	83·6	83·0	82·8	82·8	82·4	82·2	82·0	81·8	81·9	81·9	81·8	82·0	81·9	81·7	81·3	81·0	80·9	80·9	80·9	80·6	79·8	79·3	80·8	81·1	81·6
24	81·0	80·0	80·0	79·2	79·1	79·5	79·4	79·0	78·9	79·4	80·1	81·0	81·3	81·3	81·1	81·0	80·1	79·0	78·0	78·5	77·6	77·0	76·9	76·0	79·5
25	75·8	76·0	75·3	76·0	75·4	76·0	75·9	75·0	76·9	78·1	79·2	80·0	80·1	80·2	80·4	80·1	79·2	78·0	77·0	75·9	75·6	74·9	73·5	73·1	**77·0**
26	73·0	72·6	72·1	72·0	72·0	71·9	72·5	72·3	73·5	76·1	79·3	80·8	81·2	81·8	81·9	81·1	80·9	80·0	80·0	81·0	81·0	80·5	80·5	81·0	77·3
27	81·2	81·0	81·2	81·3	81·5	81·6	81·1	81·1	82·0	83·1	83·9	83·1	84·0	83·9	84·9	84·7	84·1	84·2	84·0	83·9	83·7	83·9	83·8	83·8	82·9
28	83·7	83·4	83·6	84·1	84·5	84·7	85·1	85·0	85·0	85·1	85·0	85·1	85·2	85·0	85·0	84·3	84·5	84·2	84·1	84·1	84·2	84·5	84·9	85·0	84·5
29	84·9	84·4	84·2	84·4	84·9	84·9	84·1	84·5	85·1	85·1	85·9	86·0	86·0	86·0	86·1	86·0	85·9	85·8	85·6	85·0	85·4	85·7	85·4	85·4	85·3
30	85·3	85·2	85·2	85·1	85·2	85·1	85·0	85·0	85·2	85·8	86·0	86·4	86·9	86·3	86·4	86·0	85·1	85·0	85·4	85·6	85·8	85·2	85·4	85·6	85·5
31	85·8	85·7	85·7	85·8	85·8	86·0	85·9	85·9	85·9	86·1	86·3	86·9	86·8	87·0	86·9	86·4	86·1	86·0	86·0	86·0	85·9	85·9	85·9	85·9	86·1
Mean ...	83·8	83·6	83·5	83·5	83·4	**83·3**	83·3	83·4	84·1	84·7	85·4	85·7	85·9	**85·9**	85·8	85·6	85·2	84·8	84·5	84·3	84·1	83·9	84·0	83·9	84·4
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

368. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t (height of thermometer bulbs above ground) = 1·3 metres.

November, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	85·9	85·8	85·8	85·9	86·0	86·0	86·0	85·8	86·1	86·5	86·2	85·9	85·9	85·9	86·0	86·0	86·1	86·2	86·4	86·4	86·5	86·5	86·5	86·2	86·1
2	86·4	86·4	86·6	86·7	86·9	86·9	86·9	87·0	87·1	87·0	87·1	87·0	87·4	87·1	87·1	87·1	87·0	87·0	87·0	86·9	87·0	87·0	87·0	86·9	**86·9**
3	86·9	86·9	86·6	87·0	86·9	86·1	86·4	86·1	86·1	86·0	86·0	86·1	87·1	87·0	87·0	87·1	86·7	86·1	86·0	85·9	84·9	84·9	84·2	85·9	86·3
4	85·1	85·0	84·1	85·2	85·4	85·4	84·9	85·1	84·3	85·0	85·9	85·9	85·4	85·7	85·5	85·0	83·9	83·1	83·4	82·0	81·2	82·1	82·0	82·0	84·4
5	81·4	81·9	81·9	82·0	82·0	82·1	81·7	81·9	82·9	83·1	84·9	85·0	85·1	85·1	85·3	85·5	85·4	85·5	84·6	83·8	84·3	84·8	84·0	83·9	83·6
6	83·8	83·3	83·0	82·9	82·0	81·9	81·3	81·0	81·5	83·0	84·0	83·2	83·1	83·0	82·5	82·1	82·0	81·9	81·0	80·6	80·0	79·7	79·3	80·1	82·0
7	79·8	81·0	81·6	82·0	82·2	82·3	82·1	82·4	82·5	83·0	83·2	83·1	83·1	83·0	82·9	81·7	82·0	82·2	83·0	83·5	83·9	83·0	82·1	81·9	82·4
8	81·9	81·9	81·8	81·7	81·6	81·0	81·6	81·4	82·1	83·0	83·1	84·0	84·3	84·2	84·1	84·0	82·6	81·8	80·0	79·0	78·9	79·0	82·0	82·5	82·0
9	82·2	82·5	83·0	83·8	82·1	83·0	82·3	83·0	83·0	83·0	84·0	84·0	84·6	84·9	83·0	82·9	82·6	83·0	83·1	83·4	83·2	83·3	83·6	83·9	83·2
10	83·9	83·6	83·8	84·0	83·3	84·0	83·0	83·0	83·2	83·5	84·6	84·9	84·8	83·3	84·0	83·1	83·5	84·0	83·5	83·7	84·0	84·0	84·0	84·0	83·8
11	84·1	84·0	83·9	83·3	83·0	83·0	83·0	83·0	83·5	83·6	83·9	84·1	83·9	84·5	84·9	84·4	84·1	83·9	84·0	84·4	84·0	84·1	84·0	84·0	83·9
12	83·9	84·0	83·4	83·0	82·9	82·8	82·0	82·0	82·5	83·0	83·0	83·9	83·9	82·9	83·9	83·0	83·0	83·0	83·1	82·3	81·0	81·0	80·2	81·0	82·8
13	81·3	81·2	81·0	81·8	81·9	82·2	83·0	82·8	83·3	84·0	84·2	84·9	85·0	85·0	84·1	84·0	81·4	84·4	84·7	82·8	82·6	82·2	82·2	83·0	83·1
14	83·4	83·2	83·1	83·3	83·0	83·2	83·0	82·8	81·0	82·1	83·0	82·6	82·9	83·0	81·6	81·9	81·0	80·1	79·8	79·1	78·8	78·1	77·9	76·7	81·6
15	76·7	76·0	75·9	76·0	75·2	75·1	76·0	75·8	75·4	77·7	79·4	81·3	82·2	83·0	83·1	83·0	81·8	80·9	79·0	78·9	78·0	78·0	78·1	78·2	**78·5**
16	77·1	77·6	77·7	78·4	80·7	81·0	81·7	81·9	82·0	82·4	83·1	83·3	83·6	83·6	83·5	83·1	83·0	83·1	83·6	83·8	83·7	83·9	83·9	83·9	81·9
17	83·9	84·0	84·0	84·0	84·1	84·0	83·9	83·9	84·0	84·0	84·0	84·0	84·0	84·1	84·2	84·4	84·4	84·6	84·8	84·9	84·9	84·9	84·9	85·0	84·3
18	85·0	85·4	85·9	85·0	84·0	83·2	83·1	83·2	83·1	83·1	82·9	82·9	83·2	82·4	82·9	82·3	81·4	81·0	81·0	81·1	81·2	81·2	81·8	81·1	82·9
19	81·6	81·9	80·8	80·9	81·3	81·0	80·2	81·0	80·3	81·0	81·6	81·0	80·9	80·2	80·0	79·3	79·0	78·0	77·8	76·2	76·1	75·6	75·1	75·0	79·5
20	74·8	75·0	75·7	76·0	75·2	75·3	77·0	75·8	76·6	78·1	80·8	82·0	82·3	82·3	83·0	82·9	82·8	82·1	81·9	81·6	81·9	81·3	82·0	81·1	79·4
21	81·4	81·9	80·1	80·0	81·9	81·3	80·3	80·9	80·0	80·0	81·0	81·0	80·8	81·9	81·6	80·1	79·9	79·7	79·4	79·6	79·9	79·4	79·2	79·5	80·5
22	80·0	80·1	80·0	81·0	81·1	81·6	81·4	82·0	82·1	83·0	83·0	83·0	83·4	83·2	83·1	83·9	83·9	83·8	83·9	83·9	84·0	84·3	84·8	83·1	82·6
23	83·0	83·0	83·0	82·4	82·4	82·0	82·0	81·6	81·3	81·7	82·0	81·9	81·8	81·8	81·9	81·6	81·7	81·8	81·4	80·3	80·1	80·9	79·4	77·9	81·6
24	77·2	79·0	80·0	81·0	82·0	82·1	82·9	83·3	83·6	84·1	84·5	85·0	84·8	84·3	84·5	84·8	84·9	84·0	84·5	83·9	83·5	84·0	83·9	84·0	83·0
25	83·0	83·3	83·0	82·1	82·1	82·0	82·6	82·8	82·9	83·5	84·2	83·1	82·9	82·9	82·9	82·5	82·0	82·1	82·9	82·6	83·0	83·0	83·4	83·8	82·9
26	83·8	84·0	83·4	83·1	82·9	82·9	82·0	81·0	80·1	79·9	81·0	80·9	81·9	81·1	80·9	81·6	81·3	81·6	81·0	80·8	81·5	81·7	82·0	82·0	81·8
27	82·3	82·4	82·9	83·0	83·0	82·9	83·1	83·0	83·1	83·4	83·9	84·0	84·0	84·0	84·0	83·9	83·9	84·4	84·9	84·9	85·1	85·0	85·0	84·9	83·7
28	84·9	84·8	84·8	84·8	84·8	84·5	84·8	85·0	84·8	84·8	85·0	85·1	85·3	85·2	85·3	85·2	85·2	85·4	85·4	85·1	83·5	82·9	82·4	82·6	84·7
29	82·0	83·2	83·1	83·1	83·0	82·7	82·2	82·0	82·0	82·9	82·4	83·0	83·0	83·0	82·9	82·1	81·8	79·6	78·0	77·5	77·8	77·2	78·0	78·1	81·4
30	78·0	78·0	78·9	78·5	78·7	78·3	78·8	78·7	79·0	80·0	81·8	82·9	83·1	83·6	83·4	82·9	81·9	81·9	82·1	82·0	82·4	82·9	82·9	83·0	80·9
Mean ...	**82·2**	82·3	82·3	82·4	82·4	82·3	82·3	82·3	82·3	82·8	83·5	83·6	**83·8**	83·7	83·6	83·4	83·1	82·9	82·7	82·4	82·2	82·2	82·2	82·2	82·7

369. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t = 1·3 metres.

December, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	83·0	83·0	83·0	82·9	83·0	83·0	83·0	83·1	83·1	83·3	83·9	84·0	84·1	84·4	84·1	84·0	84·0	83·9	83·5	83·4	83·4	83·3	83·4	83·4	83·5
2	83·4	83·4	83·6	83·8	83·4	83·9	84·0	83·6	83·8	83·8	83·9	84·0	84·0	84·1	84·2	84·0	84·0	84·7	84·9	84·8	84·8	84·7	84·7	84·5	84·0
3	84·6	86·0	85·2	85·7	84·3	84·1	83·5	83·0	84·0	84·1	84·1	84·2	84·7	84·7	84·4	84·1	84·0	84·0	82·9	83·1	84·0	86·0	86·0	86·0	84·4
4	86·0	86·0	85·4	84·9	84·8	84·8	85·4	86·1	86·3	85·5	85·5	85·0	85·0	84·6	84·1	84·0	83·5	84·0	84·0	84·0	84·0	83·9	83·9	83·4	**84·8**
5	82·9	82·0	82·0	83·0	83·2	83·4	84·0	84·1	84·4	84·6	82·7	82·0	81·1	81·0	81·0	80·4	80·4	80·4	81·4	81·9	82·2	82·0	82·7	82·8	82·3
6	82·4	81·8	80·9	79·2	78·9	78·4	78·0	77·4	77·0	77·1	78·0	79·4	81·0	81·1	80·8	80·8	81·0	80·9	80·7	80·1	80·0	80·1	79·0	77·7	79·8
7	76·0	75·8	75·9	77·1	76·0	76·9	77·6	79·1	80·1	81·0	82·0	82·3	82·9	83·0	83·0	83·0	83·0	82·4	83·0	83·4	82·9	82·8	82·7	82·6	80·5
8	82·0	81·6	81·8	82·1	82·2	82·0	82·1	82·1	81·7	82·0	81·9	82·4	83·0	83·1	83·1	83·3	83·2	82·0	83·0	83·0	82·7	82·9	82·2	83·0	82·4
9	82·8	82·9	82·9	82·9	83·0	83·0	82·9	82·4	82·3	82·9	83·1	84·0	83·9	83·1	83·7	83·6	83·4	83·4	83·1	83·3	83·2	83·2	83·3	83·5	83·1
10	83·6	83·8	83·9	83·9	83·4	83·2	83·1	83·0	83·0	83·0	83·1	83·2	83·1	83·2	83·1	83·0	83·0	82·7	82·3	82·2	82·3	82·4	82·1	82·0	83·0
11	82·0	81·9	82·0	82·0	82·0	82·0	82·0	82·0	82·0	82·0	82·5	82·9	82·9	83·0	82·9	82·5	82·0	81·8	81·5	81·1	81·0	81·2	81·1	81·0	82·0
12	81·0	81·0	81·0	80·9	80·9	80·7	80·7	80·7	81·0	81·0	81·0	81·1	81·3	81·1	81·1	81·0	80·9	80·9	80·6	80·5	80·5	80·4	80·9	80·7	80·9
13	80·9	80·9	80·6	80·8	80·9	81·2	81·1	81·5	81·9	82·0	82·2	82·4	82·4	82·9	82·9	83·0	82·9	83·0	82·9	83·0	83·0	83·0	83·0	83·0	82·1
14	83·0	83·0	83·0	83·0	83·0	83·0	83·0	83·0	83·0	83·1	83·2	83·7	84·0	84·0	83·9	83·8	83·4	83·1	83·2	83·3	83·2	83·1	83·0	82·6	83·2
15	82·7	82·5	82·0	82·1	82·0	81·9	81·8	82·4	83·0	82·1	82·1	82·6	83·7	83·9	83·8	83·4	83·3	83·2	83·2	83·4	83·2	83·2	83·1	83·0	82·8
16	83·0	83·0	83·0	83·0	83·0	83·0	83·0	83·0	82·9	82·9	83·0	83·0	83·0	82·8	82·8	82·9	82·9	82·9	83·0	83·0	83·0	83·3	83·2	83·4	83·0
17	83·4	83·4	83·4	83·0	82·9	82·9	83·0	83·0	83·0	83·0	83·1	83·8	83·1	83·1	82·9	83·0	83·2	83·2	83·6	83·3	83·4	83·4	83·3	83·1	83·2
18	83·0	83·0	83·0	83·0	82·9	82·6	82·8	82·9	83·0	83·0	83·0	83·0	83·0	83·0	83·0	82·9	82·5	82·4	82·8	82·9	82·7	82·6	82·9	82·9	82·9
19	82·8	82·0	81·9	81·9	81·9	82·0	82·1	82·0	82·1	82·1	82·7	82·6	82·8	82·9	83·0	83·0	82·2	82·0	81·0	81·2	82·2	82·2	81·3	81·2	82·2
20	81·2	81·8	82·0	82·1	81·7	81·5	82·0	82·0	82·0	82·0	82·1	82·2	82·2	82·1	82·2	82·0	81·0	81·0	80·9	80·9	81·3	81·6	81·8	81·9	81·7
21	81·9	81·6	82·0	81·9	82·0	82·0	81·9	82·0	82·0	81·2	81·9	81·9	81·6	82·2	82·3	82·1	82·1	82·0	82·1	81·8	81·8	81·2	81·7	81·2	81·9
22	81·9	82·0	82·1	82·1	82·1	82·1	82·1	82·2	82·2	82·9	83·0	83·1	83·2	83·2	83·2	83·1	83·2	83·1	83·0	82·9	83·0	82·9	83·0	83·0	82·7
23	83·0	82·8	82·9	83·0	82·9	83·0	83·0	83·0	83·1	83·1	83·7	83·7	83·4	83·4	83·4	83·6	83·5	83·7	83·8	84·0	84·0	84·1	84·1	84·2	83·4
24	84·2	84·4	84·5	84·5	84·5	84·5	84·2	84·1	84·1	84·1	84·1	84·3	84·4	84·7	84·4	84·5	84·7	84·5	84·8	84·8	84·9	84·8	84·8	84·7	84·5
25	84·6	84·5	84·4	84·3	84·2	84·4	84·2	84·3	84·3	84·3	84·4	84·7	84·8	84·4	84·4	84·2	84·1	83·7	83·1	83·6	83·9	84·0	84·0	84·0	84·2
26	84·0	84·0	84·0	84·0	84·0	84·0	84·0	84·1	84·1	84·1	84·4	84·8	84·4	84·9	84·3	84·0	84·0	84·0	84·0	84·0	84·1	84·0	84·0	84·0	84·1
27	83·9	84·0	83·9	83·8	83·8	83·8	83·9	83·8	83·9	84·0	84·0	84·0	84·0	83·9	83·5	83·5	83·4	83·9	83·9	83·1	83·9	83·9	84·0	84·0	83·8
28	84·1	84·1	84·3	84·4	84·6	84·8	84·3	83·0	82·9	82·7	82·4	82·3	82·1	82·1	81·8	80·4	80·6	80·5	80·1	79·0	79·0	78·1	78·9	78·9	82·0
29	78·9	78·0	78·9	78·8	79·2	78·1	77·9	78·5	78·9	77·0	79·9	80·1	78·9	79·4	79·0	79·0	79·1	78·0	78·0	78·8	79·0	78·6	78·8	78·0	78·7
30	78·0	78·1	77·9	76·9	78·3	77·3	77·0	77·9	77·0	78·0	78·0	77·3	79·0	78·5	77·0	76·9	77·0	76·4	75·4	76·4	76·5	75·9	76·0	74·2	**77·2**
31	75·0	74·0	73·9	74·1	73·9	74·4	74·9	75·3	76·0	77·1	78·3	79·1	80·0	80·5	80·5	80·9	81·1	82·0	82·0	82·5	82·8	82·8	82·9	83·0	78·4
Mean ...	82·2	82·1	82·1	82·1	82·0	**82·0**	82·0	82·1	82·2	82·2	82·5	82·7	82·8	**82·8**	82·7	82·6	82·5	82·4	82·3	82·3	82·4	82·4	82·4	82·3	82·3
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

From readings in degrees absolute at exact hours, Greenwich Mean Time.

370. Cahirciveen (Valentia Observatory): North Wall Screen: h_t = 1·3 metres. **1931.**

Hour GMT 1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
83·10	83·04	82·94	82·86	**82·81**	82·83	83·06	83·41	83·85	84·26	84·66	84·98	85·19	**85·21**	85·21	85·07	84·83	84·50	84·17	83·87	83·62	83·46	83·35	83·21	83·89

TEMPERATURE: MONTHLY MEANS AND DIURNAL INEQUALITIES.

The departures from the mean of the day are adjusted for non-cyclic change.

371. Cahirciveen (Valentia Observatory): North Wall Screen: h_t = 1·3 metres. **1931.**

Month	Mean	Hour. GMT. 1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
Jan.	**280·18**	−0·20	−0·19	−0·27	−0·28	−0·46	−0·47	−0·50	−0·51	**−0·58**	−0·32	+0·09	+0·40	+0·66	+0·78	**+0·80**	+0·58	+0·36	+0·16	−0·01	+0·02	+0·09	+0·01	−0·09	−0·07
Feb.	280·30	**−0·55**	−0·48	−0·51	−0·50	−0·46	**−0·55**	−0·50	−0·40	−0·29	−0·10	+0·31	+0·68	+0·85	+0·80	**+1·00**	+0·85	+0·59	+0·23	+0·17	+0·05	−0·17	−0·20	−0·29	−0·53
Mar.	281·18	−0·55	−0·58	−0·71	−0·93	−1·03	**−1·14**	−1·13	−1·06	−0·45	+0·01	+0·53	+1·03	+1·38	+1·35	**+1·39**	+1·31	+1·08	+0·63	+0·16	−0·01	−0·17	−0·25	−0·38	−0·48
Apr.	282·27	−0·94	−1·04	−1·17	−1·32	−1·28	**−1·39**	−1·20	−0·60	−0·04	+0·47	+0·78	+1·21	+1·43	+1·55	**+1·56**	+1·51	+1·26	+0·87	+0·42	+0·02	−0·26	−0·46	−0·58	−0·80
May	284·26	−1·41	−1·55	−1·65	−1·93	**−1·94**	−1·69	−0·76	+0·03	+0·59	+0·94	+1·29	+1·54	**+1·86**	+1·77	+1·76	+1·59	+1·38	+1·04	+0·49	+0·04	−0·45	−0·75	−0·98	−1·21
June	286·97	−1·06	−1·16	−1·24	**−1·27**	−1·18	−0·83	−0·47	−0·06	+0·38	+0·60	+0·98	+1·18	+1·22	+1·26	**+1·29**	+1·21	+0·98	+0·70	+0·37	−0·03	−0·41	−0·65	−0·83	−0·98
July	287·65	−1·15	−1·23	−1·45	−1·50	**−1·64**	−1·27	−0·72	−0·15	+0·38	+0·78	+1·04	+1·43	+1·61	+1·52	**+1·67**	+1·55	+1·31	+0·91	+0·51	−0·10	−0·51	−0·86	−1·02	−1·11
Aug.	**287·97**	−1·18	−1·28	−1·44	−1·65	−1·72	**−1·75**	−1·20	−0·34	+0·40	+0·77	+1·10	+1·47	+1·65	+1·83	**+1·86**	+1·70	+1·39	+0·98	+0·65	0·00	−0·51	−0·69	−0·93	−1·11
Sept.	286·25	−1·14	−1·24	−1·36	−1·40	−1·63	**−1·72**	−1·68	−0·99	+0·02	+0·87	+1·21	+1·56	+1·82	**+1·87**	+1·75	+1·69	+1·39	+0·99	+0·39	+0·09	−0·33	−0·48	−0·69	−0·99
Oct.	284·39	−0·54	−0·75	−0·89	−0·91	−0·96	**−1·13**	−1·10	−1·03	−0·32	+0·30	+0·98	+1·29	+1·47	**+1·54**	+1·37	+1·16	+0·84	+0·38	+0·06	−0·12	−0·28	−0·47	−0·42	−0·47
Nov.	282·71	**−0·60**	−0·41	−0·46	−0·35	−0·36	−0·41	−0·43	−0·42	−0·41	+0·12	+0·74	+0·92	**+1·08**	+1·00	+0·93	+0·68	+0·40	+0·18	+0·02	−0·32	−0·45	−0·48	−0·48	−0·49
Dec.	282·35	−0·11	−0·24	−0·24	−0·25	−0·32	**−0·35**	−0·33	−0·26	−0·17	−0·12	+0·14	+0·34	+0·46	**+0·50**	+0·36	+0·23	+0·13	+0·03	−0·03	0·00	+0·10	+0·09	+0·10	−0·06
Year	283·89	−0·78	−0·85	−0·95	−1·03	**−1·09**	−1·06	−0·84	−0·48	−0·04	+0·36	+0·77	+1·09	+1·29	**+1·32**	+1·31	+1·17	+0·93	+0·60	+0·27	−0·03	−0·28	−0·44	−0·55	−0·69

ABSOLUTE EXTREMES OF TEMPERATURE FOR EACH DAY.

Maximum and minimum for the interval 0 h. *to* 24 h., *Greenwich Mean Time.*

372. Cahirciveen (Valentia Observatory): North Wall Screen: h_t = 1·3 metres. **1931.**

Month	Jan.		Feb.		Mar.		April		May		June	
Day.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	80·0	76·3	81·4	78·0	79·0	76·2	84·1	79·9	85·4	79·8	88·9	84·1
2	79·4	74·9	82·9	78·1	81·1	76·0	82·1	79·8	83·8	79·0	87·1	85·1
3	80·5	74·6	80·4	75·9	84·0	79·3	82·4	79·1	83·0	78·4	90·9	86·7
4	81·0	75·0	82·3	76·0	84·4	82·0	84·8	76·5	83·6	79·0	**92·5**	88·0
5	81·4	74·9	83·0	76·0	86·0	83·8	83·3	82·0	84·0	78·5	90·2	86·0
6	81·9	78·9	81·9	78·0	83·9	75·1	86·0	81·3	84·9	80·2	90·1	84·4
7	80·6	75·4	82·1	77·0	75·8	72·3	84·3	82·2	86·5	78·2	89·0	85·9
8	81·6	75·9	**84·8**	81·5	76·0	72·9	85·4	81·8	87·9	**77·0**	90·0	86·1
9	80·0	75·2	84·1	80·9	77·0	72·0	85·9	80·0	85·7	84·4	90·0	86·0
10	82·0	76·0	81·8	77·0	80·1	**71·0**	**87·1**	80·7	86·2	84·0	89·0	85·0
11	82·8	80·0	83·1	79·3	80·7	76·0	85·3	79·9	88·0	83·0	88·0	82·1
12	80·8	77·5	81·0	78·3	81·9	75·2	84·4	80·0	87·0	82·9	89·1	83·9
13	79·6	74·9	80·2	78·0	81·9	77·8	84·9	78·8	88·0	84·0	88·3	83·9
14	81·0	**71·4**	83·2	78·4	83·5	76·9	86·5	82·6	88·1	83·4	87·5	85·0
15	82·6	80·9	82·8	80·2	82·9	79·6	83·6	80·9	87·0	80·9	87·0	84·6
16	83·6	81·5	81·1	76·9	83·7	80·9	83·9	80·8	87·0	80·3	90·5	83·9
17	82·5	80·7	79·7	76·7	85·1	82·9	83·2	79·5	86·8	77·4	89·1	**81·6**
18	82·8	81·3	79·5	**74·1**	**86·7**	82·9	83·2	79·2	87·9	79·0	88·7	83·9
19	83·4	82·1	83·0	**74·1**	85·5	83·5	83·0	79·9	87·0	81·0	86·6	84·0
20	82·6	80·0	83·5	78·0	86·0	83·1	82·4	78·9	86·8	79·8	88·0	83·8
21	82·7	78·4	79·8	76·6	86·0	82·0	82·1	78·0	85·4	82·0	88·0	86·0
22	83·0	78·1	81·8	78·0	86·2	80·8	84·0	**75·0**	88·0	82·5	88·5	85·4
23	82·9	79·0	81·7	78·3	85·9	78·6	84·3	79·4	88·0	84·3	88·0	86·1
24	81·1	79·0	83·6	78·3	85·0	78·0	84·0	80·2	88·0	84·0	91·6	86·1
25	81·7	79·2	83·9	82·8	82·8	79·6	84·5	79·9	86·9	83·2	90·4	86·0
26	82·0	79·9	83·9	79·0	84·1	81·8	83·9	80·9	88·8	83·0	89·0	87·6
27	83·7	81·4	81·3	77·9	85·5	81·8	84·0	81·2	**90·9**	84·0	90·6	87·4
28	82·4	79·7	79·0	74·5	86·4	83·8	85·3	82·0	87·8	85·0	88·7	86·0
29	81·4	79·0	—	—	85·4	83·1	86·2	81·7	88·9	84·0	89·0	82·2
30	82·5	79·3	—	—	85·0	83·7	86·7	81·6	89·4	81·7	87·1	**81·6**
31	**83·9**	80·0	—	—	85·4	83·9	—	—	87·9	83·9	—	—
Mean	81·9	78·1	82·0	77·8	83·3	79·2	84·4	80·1	86·9	81·5	89·0	84·9

Month	July		Aug.		Sept.		Oct.		Nov.		Dec.	
Day.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	89·0	86·0	91·3	83·9	**91·4**	87·2	89·0	84·4	86·6	85·4	84·5	82·9
2	89·6	85·4	92·5	87·0	89·5	85·8	89·0	86·0	**87·5**	86·2	84·9	83·1
3	91·5	86·9	95·0	88·0	86·2	84·2	88·4	83·1	87·1	84·2	86·0	82·9
4	91·4	85·3	96·0	88·0	87·0	83·1	**89·4**	87·9	86·0	81·2	**86·5**	83·0
5	89·0	84·0	**97·5**	89·3	86·9	83·1	88·4	86·8	85·7	81·1	84·8	80·3
6	88·7	82·2	91·5	87·6	87·0	80·0	87·9	84·2	84·4	79·3	82·8	77·0
7	87·0	84·4	90·4	85·3	88·1	**78·0**	87·0	82·7	83·9	79·0	83·7	75·1
8	89·8	84·6	88·0	84·9	88·0	80·2	88·7	87·0	84·4	78·1	83·6	81·3
9	90·3	**80·5**	88·4	85·6	87·9	82·8	87·8	84·0	85·0	82·0	84·0	82·0
10	91·5	86·6	88·3	86·3	87·6	80·0	87·9	79·6	85·0	82·2	83·9	82·0
11	**92·4**	86·1	90·3	86·5	88·0	84·0	88·8	84·8	85·0	82·6	83·0	80·9
12	92·0	86·2	91·7	86·7	88·0	86·6	86·5	83·5	84·1	79·9	81·4	80·4
13	90·9	86·0	89·1	86·9	89·0	86·4	87·0	81·0	85·0	81·0	83·0	80·3
14	90·0	86·0	90·4	87·0	89·0	86·9	86·0	77·3	83·9	76·4	84·0	82·6
15	90·2	85·9	89·8	86·0	90·9	86·2	87·2	80·0	83·4	75·1	83·9	81·5
16	90·8	87·1	89·5	87·0	89·9	86·8	88·0	82·0	83·9	77·0	83·5	82·7
17	90·1	87·0	90·9	85·9	88·0	87·4	87·5	84·9	85·0	83·9	83·8	82·8
18	90·1	86·1	90·3	85·7	90·7	87·3	86·3	84·9	85·9	80·9	83·1	82·4
19	89·1	85·9	89·0	85·9	91·1	86·0	85·0	79·9	82·0	75·0	83·1	80·9
20	89·9	85·4	87·2	85·6	90·1	84·3	86·0	79·0	83·1	**74·4**	82·3	80·5
21	92·1	85·1	88·4	84·6	90·1	82·0	83·5	78·0	82·0	79·1	82·3	81·2
22	90·4	86·4	88·1	82·0	88·4	80·0	84·5	81·1	84·8	79·3	83·4	81·2
23	91·0	85·6	88·7	81·0	89·3	78·9	83·6	79·1	83·1	77·9	84·2	82·7
24	90·4	86·0	90·0	83·0	89·0	82·0	81·9	76·0	85·0	77·0	84·9	84·0
25	89·7	85·1	88·4	**79·1**	88·1	85·1	80·5	72·9	84·2	81·6	84·8	82·9
26	89·1	84·6	89·5	80·2	88·0	82·1	81·9	**71·9**	84·0	79·9	84·9	83·9
27	89·1	85·7	88·6	87·7	87·9	82·1	84·9	81·0	85·1	81·9	84·0	83·1
28	89·4	85·1	90·5	87·8	87·0	82·8	85·5	83·4	85·5	82·4	84·8	77·1
29	90·2	87·0	91·1	86·3	86·8	85·2	86·3	84·1	83·6	77·0	80·3	76·8
30	89·9	86·4	90·5	85·6	87·9	84·9	86·9	84·4	83·7	78·0	79·0	74·2
31	90·1	86·1	92·0	84·6	—	—	87·0	85·6	—	—	83·0	**73·9**
Mean	90·2	85·5	90·4	85·5	88·6	83·7	86·4	82·0	84·6	80·0	83·6	80·8

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Percentages at exact hours, Greenwich Mean Time.

373. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t (height of thermometer bulbs above ground) = 1·3 metres.

January, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	83	83	86	87	82	80	75	82	78	72	74	72	72	72	83	78	78	74	80	87	78	78	70	72	78·4	6·8
2	75	82	85	87	88	85	89	85	87	85	93	88	87	85	76	72	72	79	84	80	80	80	80	74	82·4	6·8
3	75	78	76	80	83	82	89	84	84	84	72	74	63	70	73	72	73	73	73	66	64	61	58	61	73·9	6·6
4	61	65	79	83	85	82	77	76	82	85	85	75	79	75	75	86	84	90	90	93	91	88	86	86	81·1	7·6
5	86	90	84	84	79	78	77	80	81	77	76	82	83	78	71	79	78	78	81	81	82	82	79	75	80·3	8·1
6	75	75	77	75	76	76	75	83	76	76	76	69	68	68	72	73	78	78	81	80	76	71	71	78	75·1	7·9
7	73	85	85	89	89	87	90	85	88	85	85	86	77	80	81	74	74	74	78	76	64	71	70	74	80·1	7·0
8	72	73	82	69	76	80	80	80	81	73	82	78	74	77	84	84	84	86	85	88	88	83	74	81	79·6	7·3
9	76	75	76	78	78	78	80	80	82	86	87	85	86	82	72	81	76	84	83	87	85	85	85	85	81·3	6·8
10	85	85	88	90	87	92	92	93	87	92	90	88	94	87	86	93	89	93	90	88	91	96	89	90	89·7	8·4
11	89	84	93	90	90	89	84	87	81	78	84	86	79	86	87	95	98	98	92	85	74	83	84	75	86·6	9·6
12	82	84	72	72	81	84	81	84	83	86	79	78	79	79	79	72	74	78	77	70	67	71	64	66	76·9	7·3
13	70	69	65	69	71	60	63	62	66	68	54	54	60	54	55	55	59	55	53	55	64	59	64	64	**61·2**	**5·3**
14	64	75	83	83	85	86	89	90	90	90	88	88	82	84	91	96	93	87	88	91	91	85	86	89	85·9	6·6
15	91	99	93	96	94	95	99	91	93	88	87	81	84	83	86	87	78	82	87	88	86	86	89	83	88·7	10·1
16	88	89	89	92	93	96	96	99	98	94	91	91	96	98	99	98	98	99	98	95	82	74	71	72	91·7	10·9
17	62	72	70	63	63	68	62	66	71	74	70	69	73	67	71	73	76	74	89	86	83	85	85	88	73·0	8·3
18	91	93	96	95	100	99	99	95	94	95	96	95	95	92	92	97	96	96	93	95	97	96	94	94	95·1	11·0
19	95	98	100	99	99	97	97	97	97	96	97	98	98	99	96	96	96	95	95	95	87	86	87	86	**95·4**	**11·8**
20	78	86	87	89	96	86	80	85	88	91	88	88	86	83	83	85	79	82	78	81	92	92	93	92	86·0	9·6
21	98	96	93	93	96	92	88	89	91	95	95	92	93	93	93	88	88	94	87	73	79	81	89	70	89·9	9·7
22	70	77	79	77	84	88	88	87	91	88	83	91	91	89	94	96	92	95	95	92	89	91	88	88	87·3	9·3
23	92	92	94	92	87	88	91	89	88	89	88	83	81	77	71	73	65	69	73	72	76	83	83	71	82·3	9·1
24	73	74	73	79	85	70	73	69	65	70	64	72	67	64	71	71	76	74	79	84	69	75	71	82	72·7	7·4
25	70	65	70	71	71	81	67	67	82	73	81	79	84	85	78	79	85	71	65	71	59	64	68	60	73·2	7·6
26	71	60	68	69	69	66	68	69	69	73	73	71	71	73	76	81	84	83	83	85	87	86	87	87	74·8	8·0
27	87	87	88	88	88	89	89	89	89	91	90	90	75	75	73	72	71	70	67	52	50	60	62	69	77·9	9·2
28	69	65	75	76	77	81	84	82	84	84	77	86	87	88	85	87	81	74	74	78	83	70	61	64	78·1	8·6
29	70	60	60	70	63	65	70	73	71	68	79	80	81	86	75	78	72	68	62	57	66	65	71	71	69·9	7·2
30	68	69	75	72	73	70	77	75	77	79	78	81	78	85	82	88	96	94	99	96	99	99	98	95	83·0	8·7
31	94	92	94	95	98	99	97	95	95	94	92	96	94	92	86	85	80	79	76	67	69	60	69	52	86·3	9·9
Mean	78·5	79·9	81·8	82·3	83·4	82·9	82·8	82·8	**83·5**	83·2	82·4	82·1	81·2	80·8	80·5	82·1	81·4	81·5	81·8	80·5	79·0	78·9	78·3	**77·2**	81·2	†8·3
Vapour Pressure* ...	mb. 7·8	mb. 8·0	mb. 8·1	mb. 8·2	mb. 8·2	mb. 8·1	mb. 8·1	mb. 8·1	mb. 8·1	mb. 8·3	mb. 8·4	mb. 8·6	mb. 8·6	mb. 8·7	mb. 8·6	mb. **8·7**	mb. 8·5	mb. 8·4	mb. 8·3	mb. 8·1	mb. 8·1	mb. 8·0	mb. 7·9	mb. 7·8	‡8·2	

374. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t = 1·3 metres.

February, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	57	63	66	59	56	57	56	66	79	67	60	59	59	62	60	71	79	82	80	84	80	87	90	94	68·8	7·0
2	93	98	99	99	99	99	94	96	96	95	88	83	78	81	86	78	77	79	73	67	70	70	72	81	85·7	9·2
3	83	78	71	74	82	72	71	74	80	80	79	77	78	82	82	85	83	84	84	83	82	84	81	85	79·7	7·3
4	84	81	83	84	86	87	87	87	87	94	94	93	96	87	84	80	87	93	88	87	90	92	97	91	88·2	8·7
5	93	84	84	94	91	90	88	94	90	90	93	95	93	91	89	93	95	91	92	94	95	94	92	89	91·5	9·7
6	93	78	82	71	73	59	76	70	69	69	72	72	69	68	67	64	73	77	77	81	83	85	84	84	74·9	7·8
7	86	91	87	87	96	91	96	91	88	98	89	81	77	75	74	78	81	81	89	88	89	93	96	93	87·1	8·8
8	92	99	99	97	97	95	95	95	98	98	99	99	98	98	94	95	95	94	99	98	97	95	97	93	**96·5**	**12·4**
9	89	89	91	94	96	98	94	94	95	89	94	89	92	94	92	98	96	100	99	97	95	93	88	93	93·7	11·3
10	87	93	84	84	72	70	73	67	69	70	72	72	65	79	72	61	**71**	81	82	73	72	71	81	70	75·1	7·3
11	71	80	81	87	93	86	88	91	93	87	82	87	84	87	74	71	73	64	59	69	71	73	60	61	78·2	8·4
12	66	73	66	70	67	84	70	74	72	72	73	77	76	72	77	71	65	74	85	71	81	72	67	73	72·6	7·3
13	70	70	70	69	72	66	66	62	60	70	70	66	66	69	69	64	75	72	72	65	63	61	72	68	67·9	6·6
14	70	68	78	78	81	82	84	91	94	88	94	90	90	88	87	88	88	91	95	94	91	89	88	95	86·2	9·1
15	92	93	86	84	77	71	71	72	70	70	70	67	71	77	73	72	71	83	73	72	72	71	75	75	75·7	8·4
16	75	79	74	76	77	65	69	46	60	84	73	62	55	69	56	57	60	67	59	70	71	72	69	68	67·4	6·3
17	69	62	60	63	68	74	77	73	68	63	58	56	66	57	59	60	58	66	65	82	76	78	72	74	66·7	6·0
18	70	64	65	70	73	71	71	74	75	74	62	59	62	52	64	58	62	68	71	70	79	80	83	85	69·0	5·9
19	85	85	82	82	81	83	90	97	95	90	97	96	93	99	94	91	98	96	98	98	96	92	88	88	91·4	8·7
20	93	95	91	91	89	91	89	88	88	91	87	89	74	74	71	71	70	81	69	74	79	76	74	81	82·5	9·2
21	83	74	68	69	71	75	61	71	71	98	84	69	70	84	65	69	76	80	72	83	89	81	81	76	75·9	6·7
22	82	75	78	81	78	79	79	86	84	84	84	75	79	81	84	75	73	79	84	77	81	77	77	83	79·6	7·9
23	87	82	87	77	71	74	72	74	77	72	72	71	76	71	72	71	71	74	65	61	69	75	68	88	73·9	7·6
24	89	84	86	84	78	84	83	86	89	89	95	95	94	95	95	95	96	96	98	98	98	98	96	95	91·4	10·4
25	96	94	93	95	93	98	98	98	98	96	99	94	93	93	93	95	96	98	95	95	95	95	95	95	95·4	12·0
96	96	98	99	97	93	92	95	99	96	99	99	91	88	86	76	76	81	76	84	78	77	77	78	87	88·4	10·1
27	88	90	93	96	96	99	99	94	93	98	90	93	96	96	96	91	87	89	84	83	80	83	74	62	90·1	8·7
28	53	53	54	63	51	78	72	57	71	66	53	46	40	62	66	61	63	39	53	60	66	64	42	38	**57·6**	**4·8**
Mean ...	**81·9**	81·2	80·6	81·3	80·6	81·1	80·9	81·0	82·3	83·6	81·5	78·7	77·8	79·6	77·5	**76·4**	78·6	80·5	80·1	80·4	81·7	81·4	79·9	80·9	80·4	†8·3
Vapour Pressure* ...	mb. 8·1	mb. 8·1	mb. 8·0	mb. 8·0	mb. 8·0	mb. 8·0	mb. 8·0	mb. 8·1	mb. 8·2	mb. 8·5	mb. 8·5	mb. 8·4	mb. 8·4	mb. **8·6**	mb. 8·5	mb. 8·2	mb. 8·4	mb. 8·4	mb. 8·3	mb. 8·2	mb. 8·2	mb. 8·2	mb. 8·0	mb. **7·9**	‡8·2	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	

* Computed from the mean temperatures and the mean relative humidities. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

375. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t (height of thermometer bulbs above ground) = **1·3** metres.

March, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	47	54	52	46	60	58	52	70	51	55	57	47	57	62	62	61	64	69	71	71	63	68	62	59	**58·6**	5·0
2	59	60	73	78	81	72	72	79	71	74	77	76	71	72	77	79	78	79	77	79	84	75	77	80	74·6	6·9
3	85	85	82	85	87	87	83	83	79	81	75	76	76	83	76	75	76	83	80	79	79	76	76	86	80·4	9·3
4	87	86	87	80	86	86	84	86	88	88	96	96	93	92	92	90	92	92	95	94	90	90	89	84	89·3	11·0
5	89	87	89	88	88	89	92	91	89	87	81	80	77	85	85	82	80	83	84	85	84	86	87	81	85·4	11·7
6	86	84	84	84	81	77	83	78	76	77	81	78	84	84	84	84	82	76	77	69	78	73	75	73	79·7	7·6
7	71	66	65	65	63	63	61	60	57	54	53	50	46	48	52	53	58	55	60	70	68	66	66	67	60·0	**3·9**
8	67	66	66	67	68	69	66	66	68	61	68	75	73	71	68	63	61	57	56	57	56	54	57	61	64·3	4·3
9	60	61	60	61	66	61	67	66	65	65	64	59	59	51	47	52	51	55	64	64	70	75	75	71	61·8	4·2
10	69	77	79	75	75	79	69	71	73	69	82	76	74	62	69	67	67	72	75	74	72	74	81	81	73·2	5·7
11	84	86	87	85	87	87	88	80	74	66	69	66	59	59	60	66	63	67	72	72	74	65	73	77	73·7	6·6
12	79	80	81	85	88	93	87	93	87	86	81	72	73	78	78	79	79	86	85	88	89	88	88	87	83·5	7·4
13	87	88	93	87	87	93	91	89	96	91	85	82	74	77	75	75	75	82	72	78	84	79	84	85	83·7	8·2
14	85	76	83	76	82	84	86	86	87	83	85	77	79	84	75	72	74	84	86	88	88	88	93	91	82·9	8·5
15	90	85	77	78	83	84	78	73	72	71	62	61	70	64	61	61	62	62	62	71	70	72	70	66	71·6	7·9
16	72	71	75	76	78	78	76	75	70	65	57	49	52	55	54	52	52	66	74	78	80	80	83	83	68·4	7·9
17	83	83	83	83	83	82	80	80	80	79	83	81	79	75	77	78	67	67	69	70	63	64	63	63	76·0	9·8
18	62	60	64	57	74	75	78	80	84	87	84	85	77	80	77	76	78	79	79	85	84	81	77	81	76·5	10·1
19	77	79	80	74	79	90	90	93	92	83	83	84	83	78	83	79	79	79	77	77	76	82	85	82	81·8	11·0
20	84	79	77	76	77	76	74	68	68	65	67	69	67	73	82	82	83	87	87	89	90	90	90	90	78·6	10·5
21	87	89	92	94	88	91	94	89	91	85	79	78	72	74	76	76	79	79	86	83	82	84	83	82	84·0	10·7
22	82	82	83	81	78	74	79	79	73	65	65	65	63	64	68	66	66	76	76	86	92	91	87	88	76·1	9·4
23	82	85	91	90	85	91	91	90	94	94	99	80	70	65	58	63	64	71	75	75	74	81	72	77	80·1	9·1
24	72	81	77	74	72	78	84	83	79	81	73	71	64	63	62	59	63	63	66	66	68	65	63	69	70·8	7·7
25	70	70	68	70	70	70	71	72	65	71	67	67	72	70	74	78	76	76	74	77	79	80	77	74	72·3	7·9
26	76	77	78	77	78	76	74	75	76	81	79	76	77	81	81	83	80	80	84	84	80	82	86	84	79·2	9·7
27	86	84	75	86	80	86	82	76	82	81	78	78	84	82	83	84	88	89	94	95	93	90	87	87	84·5	10·7
28	89	83	81	80	83	83	83	84	84	83	84	81	75	78	87	79	77	79	79	78	79	78	78	77	81·1	11·1
29	84	84	86	84	81	82	82	84	87	85	84	78	77	85	90	93	93	96	93	89	93	94	92	92	86·7	11·5
30	90	92	92	92	93	94	94	92	90	93	95	90	93	90	90	93	91	94	98	99	97	95	98	98	93·3	12·5
31	98	98	98	95	94	94	95	98	96	96	93	95	91	95	94	89	93	92	90	90	90	87	89	89	**93·5**	**12·5**
Mean ...	78·7	78·7	79·3	78·3	79·8	**80·7**	80·2	80·3	78·8	77·5	77·0	74·1	**72·9**	73·5	74·1	73·8	73·9	76·6	78·0	79·3	79·7	79·1	79·5	79·5	77·6	†8·7
Vapour Pressure* ...	mb. 8·2	mb. 8·2	mb. 8·2	mb. **7·9**	mb. 8·1	mb. 8·1	mb. 8·0	mb. 8·1	mb. 8·3	mb. 8·4	mb. 8·7	mb. 8·6	mb. 8·7	mb. 8·7	mb. **8·9**	mb. 8·8	mb. 8·7	mb. 8·7	mb. 8·5	mb. 8·6	mb. 8·6	mb. 8·4	mb. 8·4	mb. 8·4	‡8·4	

376. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t = **1·3** metres.

April, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	89	87	87	87	87	85	86	87	84	84	83	78	76	82	84	87	89	94	90	90	87	87	87	87	86·0	10·1
2	87	86	86	91	90	82	77	76	72	73	83	75	73	73	74	62	66	65	72	68	71	61	57	60	74·7	7·8
3	59	57	59	65	61	57	67	64	58	59	62	63	56	50	51	54	57	64	65	67	76	77	82	84	**62·6**	**6·6**
4	87	85	81	89	84	92	90	98	96	89	80	83	82	82	81	74	75	79	83	86	86	87	86	84	85·0	9·5
5	85	86	88	91	89	89	89	81	88	93	88	92	92	93	94	92	92	92	91	89	91	89	91	93	89·7	10·9
6	92	88	94	92	88	86	86	93	91	89	84	79	80	85	78	77	82	83	84	87	90	94	95	96	87·1	11·1
7	95	88	88	83	84	82	79	73	75	75	73	83	74	76	82	82	87	87	91	94	92	89	89	91	83·9	10·4
8	92	93	93	93	91	89	87	82	87	94	85	81	79	80	85	85	88	88	87	93	91	98	88	92	88·4	11·2
9	93	93	90	90	94	98	98	90	94	88	85	89	86	81	87	88	86	86	87	91	95	96	92	98	**90·5**	11·0
10	92	99	98	98	99	96	93	88	93	93	89	87	78	77	77	80	82	81	84	87	95	92	89	89	89·2	**11·3**
11	94	98	88	88	88	98	89	87	91	87	88	87	91	93	90	89	87	88	93	92	96	92	87	86	90·4	10·7
12	80	83	75	80	70	73	64	62	67	65	64	73	64	71	71	74	63	64	64	72	71	65	67	64	69·9	8·1
13	60	62	71	67	71	75	70	59	51	59	57	63	70	66	65	69	69	73	74	76	75	65	74	78	67·2	7·9
14	84	83	86	84	79	79	78	76	73	76	74	66	70	73	75	72	72	80	81	77	83	86	86	86	78·1	10·2
15	78	79	74	75	74	84	86	74	69	57	67	62	59	61	59	67	62	63	66	67	70	69	62	73	69·3	8·3
16	71	71	71	72	73	81	73	73	70	69	65	70	67	74	71	74	79	74	75	74	75	78	74	74	72·8	8·7
17	79	84	87	87	90	92	93	86	83	74	72	62	62	57	66	60	60	66	57	59	69	65	71	69	73·9	8·5
18	66	59	55	72	70	64	65	61	58	58	57	55	52	56	61	70	69	71	76	74	72	74	71	70	64·8	7·1
19	73	72	74	77	76	66	76	67	68	65	58	57	55	62	59	60	60	58	61	61	62	61	69	68	65·3	7·2
20	70	71	70	70	70	74	74	73	69	65	70	58	57	58	60	60	61	61	70	68	72	73	69	77	67·3	7·1
21	78	77	77	81	75	79	64	64	68	65	60	68	60	60	58	53	60	55	61	71	70	78	79	84	68·4	7·0
22	82	85	85	87	91	87	85	84	70	73	75	74	75	83	84	71	72	73	74	74	84	83	80	87	79·9	8·1
23	84	86	87	88	79	87	87	86	87	82	83	89	86	84	75	72	82	83	88	87	88	86	84	84	84·4	9·6
24	88	89	86	88	90	89	86	87	87	80	82	87	86	86	76	79	75	76	76	81	89	89	88	90	84·5	9·5
25	90	90	87	88	88	88	89	81	86	84	86	78	78	80	75	73	74	73	76	75	76	86	87	87	82·4	9·4
26	86	88	88	84	87	86	82	82	83	75	75	70	69	72	72	66	66	63	64	64	68	72	75	76	75·8	9·1
27	80	80	77	77	86	87	87	87	83	86	87	88	80	76	76	76	80	84	86	93	84	91	91	88	83·5	10·0
28	89	89	87	84	91	82	82	72	78	75	68	69	71	72	65	66	70	73	75	80	84	77	83	86	77·9	9·8
29	89	89	89	88	91	93	91	86	82	82	80	80	77	77	78	77	78	78	79	77	81	79	80	87	82·8	10·8
30	86	87	88	88	91	92	91	89	87	87	83	77	75	72	63	64	69	68	65	74	81	86	87	84	80·6	10·1
Mean ...	82·6	82·8	82·2	83·5	83·2	**83·7**	82·1	78·9	78·3	76·7	75·4	74·8	72·7	73·7	73·1	**72·4**	73·7	74·8	76·5	78·3	80·8	80·8	80·7	82·4	78·5	†9·2
Vapour Pressure* ...	mb. 9·1	mb. 9·1	mb. 8·9	mb. 9·0	mb. 8·9	mb. 8·9	mb. **8·9**	mb. 8·9	mb. 9·1	mb. 9·2	mb. 9·3	mb. 9·5	mb. 9·4	mb. **9·5**	mb. 9·5	mb. 9·4	mb. 9·4	mb. 9·2	mb. 9·2	mb. 9·2	mb. 9·3	mb. 9·2	mb. 9·0	mb. 9·1	‡9·2	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	

* Computed from the mean temperatures and the mean relative humidities. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

377. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t (height of thermometer bulbs above ground) = **1·3** metres.

May, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	82	81	76	82	82	77	83	74	64	62	66	63	69	75	80	73	79	79	85	84	81	82	81	83	76·8	8·6
2	79	71	76	72	72	74	71	67	70	62	61	64	57	56	52	63	62	63	66	69	69	74	71	78	**67·6**	**7·5**
3	64	72	78	79	77	81	86	65	72	74	72	64	65	72	70	67	60	64	61	60	70	70	71	71	70·4	7·5
4	79	72	77	81	73	78	81	74	70	79	73	64	64	68	69	69	81	68	69	76	77	73	86	84	74·1	8·0
5	83	84	84	85	84	83	77	75	74	67	69	74	74	73	67	67	69	75	78	80	86	91	91	88	78·2	8·7
6	89	92	98	98	94	95	89	95	87	91	87	88	88	85	78	75	72	76	80	80	84	88	92	93	87·1	10·4
7	94	93	90	94	91	93	89	85	76	68	75	83	80	79	78	82	78	78	85	85	87	81	86	88	84·2	10·1
8	88	87	91	87	87	93	82	87	85	78	78	80	67	76	75	77	77	76	83	80	86	89	89	91	82·8	10·4
9	91	87	86	89	91	92	94	90	93	95	96	96	95	97	93	95	95	98	98	98	98	97	98	98	94·0	13·2
10	96	96	97	96	97	97	97	93	96	98	95	94	96	95	96	96	95	97	99	99	96	98	93	87	**96·0**	**13·7**
11	87	88	88	87	88	87	86	82	81	79	78	77	77	77	77	74	77	79	80	87	89	91	92	89	83·2	12·1
12	95	90	95	95	96	89	93	88	85	86	81	82	80	81	86	88	89	89	90	90	91	93	93	93	89·0	12·6
13	95	93	92	90	89	89	91	83	83	78	79	78	77	71	74	76	75	77	78	81	85	86	80	81	83·0	12·1
14	79	83	80	82	80	79	82	82	79	78	76	77	74	72	72	73	67	70	73	76	80	83	84	81	77·6	11·3
15	81	84	87	87	88	87	78	78	69	73	73	64	69	72	67	69	72	71	70	70	72	79	83	83	76·0	10·1
16	86	85	86	86	86	86	84	79	75	69	77	75	67	67	73	67	73	76	74	75	78	84	86	84	78·2	9·9
17	89	93	90	95	92	87	87	75	74	69	71	73	70	65	70	60	67	73	76	75	83	77	82	85	78·2	9·6
18	85	88	84	80	87	85	83	65	56	63	60	63	58	70	67	66	69	75	78	82	81	84	87	87	75·1	9·9
19	89	87	87	83	87	88	87	77	74	71	71	67	69	77	69	73	64	67	73	72	81	80	82	86	77·6	10·4
20	85	87	87	87	86	89	82	83	74	70	72	66	63	64	63	65	67	74	68	66	65	65	65	62	73·6	9·6
21	61	63	63	58	64	62	64	65	73	74	76	74	76	76	75	82	73	75	86	82	80	87	82	80	72·6	9·7
22	76	83	86	84	80	81	71	68	66	66	63	61	51	58	57	62	66	66	75	79	84	76	76	82	71·5	10·1
23	83	81	83	83	78	78	76	76	73	69	70	72	70	74	69	64	66	82	78	79	82	76	80	84	76·0	11·2
24	84	83	79	69	69	74	80	81	86	79	79	88	78	78	79	78	82	85	78	78	83	84	83	80	80·0	11·7
25	83	84	87	86	87	84	86	86	89	86	88	88	89	91	89	87	82	86	86	88	87	93	87	89	86·8	12·3
26	89	89	89	94	90	89	90	87	86	83	88	80	73	77	76	72	74	77	75	77	84	84	87	83	83·2	12·1
27	76	79	78	76	76	75	75	73	71	65	65	57	59	66	74	77	71	60	66	72	75	73	76	77	71·5	11·4
28	76	82	86	86	86	87	86	87	83	85	87	79	78	85	78	75	72	66	69	69	68	72	84	76	79·3	12·5
29	73	75	75	75	76	75	75	70	64	79	70	66	65	56	59	86	81	84	86	86	79	79	83	83	74·9	10·7
30	77	83	76	82	86	86	87	82	81	80	77	71	68	73	70	77	77	77	80	85	85	89	90	92	80·3	11·6
31	90	92	89	89	90	94	90	89	80	85	88	85	78	79	88	78	80	83	85	88	90	90	93	94	86·9	12·6
Mean ...	83·3	84·1	**84·5**	84·4	84·2	84·3	83·3	79·5	77·1	76·2	76·2	74·6	**72·4**	74·3	73·9	74·6	74·6	76·3	78·3	79·6	81·8	82·8	84·3	84·3	79·5	†10·7
Vapour Pressure* ...	mb. 10·1	mb. 10·1	mb. 10·1	mb. 9·9	mb. **9·9**	mb. 10·0	mb. 10·6	mb. 10·6	mb. 10·7	mb. 10·8	mb. 11·0	mb. 11·0	mb. 10·9	mb. **11·1**	mb. 11·1	mb. 11·1	mb. 11·0	mb. 10·9	mb. 10·8	mb. 10·7	mb. 10·6	mb. 10·5	mb. 10·6	mb. 10·4	‡10·6	

378. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t = **1·3** metres. **June, 1931.**

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	Vapour Pressure*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	90	97	93	91	90	89	89	82	85	88	79	78	78	83	77	83	80	81	80	87	86	86	89	86	85·5	12·9
2	88	93	89	91	94	96	95	93	94	95	93	93	94	94	94	94	93	93	92	96	96	96	97	98	93·5	14·5
3	97	96	95	93	93	94	97	98	92	92	88	86	86	84	79	74	70	71	72	77	78	77	80	80	85·7	14·3
4	76	73	73	69	76	80	79	78	80	76	69	71	70	74	77	71	76	89	79	83	81	80	81	83	76·8	14·8
5	87	82	82	86	87	89	86	86	83	80	79	73	78	77	79	87	89	89	94	95	94	92	98	99	86·0	14·8
6	98	94	90	90	95	92	98	94	96	94	95	96	88	87	81	81	87	84	88	83	90	95	95	94	91·1	14·8
7	94	95	90	87	85	81	87	95	94	97	95	95	91	85	82	88	88	87	87	84	91	90	90	90	89·6	14·3
8	90	91	90	90	90	90	90	89	84	85	81	81	76	80	79	79	78	80	85	86	91	89	83	88	85·3	14·5
9	89	88	91	91	92	96	97	97	91	94	93	89	87	85	90	84	89	88	86	87	92	93	95	95	90·6	15·2
10	94	93	95	93	97	93	92	90	90	89	89	84	91	89	89	89	88	82	85	86	80	73	81	79	88·3	14·5
11	77	84	80	84	80	79	75	67	68	67	81	83	88	90	93	92	97	91	96	90	96	94	94	93	84·7	12·1
12	90	89	91	95	91	91	85	75	75	71	70	72	70	72	69	70	73	74	74	69	83	84	87	89	79·6	12·4
13	89	89	89	87	80	72	68	76	73	80	78	74	73	72	76	81	87	85	85	87	88	91	90	91	81·7	12·3
14	91	95	91	93	94	96	96	97	93	91	89	86	97	88	70	65	68	76	72	74	80	77	78	84	85·2	13·0
15	88	85	82	83	83	85	89	87	86	89	93	91	96	96	94	92	91	92	90	95	97	91	93	94	89·9	13·4
16	93	94	92	93	93	95	81	85	80	78	72	75	76	75	73	73	69	76	82	85	88	89	86	89	83·1	13·1
17	88	91	89	88	88	92	93	87	70	69	66	72	70	78	74	76	72	74	78	88	82	83	83	80	80·6	12·0
18	82	78	78	88	88	83	89	89	88	94	91	90	80	78	83	81	80	78	86	90	88	89	89	92	85·3	12·9
19	90	87	85	80	76	80	63	76	76	74	67	65	65	62	64	66	66	65	65	67	63	67	68	64	71·5	**10·2**
20	70	65	63	63	60	59	59	68	57	67	68	62	72	77	77	87	85	86	91	94	95	97	97	98	75·0	10·9
21	99	99	98	97	96	99	97	94	97	90	92	92	95	94	88	88	87	92	95	94	95	95	94	94	**94·3**	15·0
22	94	92	98	97	95	96	99	98	96	90	90	88	88	89	88	87	90	90	90	84	95	95	94	95	92·4	14·6
23	94	93	93	94	93	94	97	97	97	98	93	93	91	91	89	90	98	98	94	96	95	96	96	97	94·2	15·1
24	98	98	99	98	95	95	99	91	82	80	78	79	79	92	81	89	90	85	94	90	90	94	94	96	90·3	16·0
25	95	98	98	96	92	92	93	90	83	84	81	81	85	83	82	81	83	85	83	86	88	89	89	89	87·9	15·4
26	89	90	90	90	91	92	91	93	91	91	91	90	93	97	96	96	93	96	97	97	93	93	91	94	92·6	15·9
27	94	94	94	94	94	92	96	98	93	98	89	90	89	83	89	89	89	90	89	91	93	97	98	97	92·4	**16·4**
28	98	93	98	92	96	97	94	90	87	85	76	76	65	68	65	68	67	58	66	68	71	64	65	75	78·9	12·6
29	68	75	76	76	81	60	67	72	67	66	58	61	62	57	61	56	59	59	66	61	67	76	79	87	**67·1**	10·5
30	87	87	87	91	88	88	92	95	89	93	88	89	91	91	93	92	93	91	93	96	96	95	98	96	91·4	12·9
Mean ...	89·2	89·3	88·6	88·7	88·4	87·9	87·8	87·6	84·6	84·8	82·4	81·8	82·1	82·4	**81·1**	81·6	82·5	82·7	84·5	85·5	87·4	87·6	88·4	**89·5**	85·7	†13·7
Vapour Pressure* ...	mb. 13·3	mb. 13·2	mb. **13·0**	mb. 13·0	mb. 13·1	mb. 13·3	mb. 13·6	mb. 13·9	mb. 13·8	mb. 14·1	mb. 14·0	mb. 14·0	mb. 14·2	mb. **14·2**	mb. 14·1	mb. 14·1	mb. 14·1	mb. 13·8	mb. 13·8	mb. 13·7	mb. 13·6	mb. 13·4	mb. 13·4	mb. 13·4	‡13·7	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	

* Computed from the mean temperatures and the mean relative humidities. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

379. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t (height of thermometer bulbs above ground) = **1·3** metres.

July, 1931.

Hour, G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	97	98	98	98	99	96	89	90	88	83	82	88	83	83	87	89	92	90	92	95	95	96	97	97	91·7	14·8
2	92	98	96	93	89	82	90	88	77	78	78	77	71	77	77	79	80	82	84	87	93	95	94	94	85·5	14·1
3	94	94	94	94	98	91	94	97	91	92	91	90	84	89	86	87	88	89	88	88	89	86	90	87	90·6	15·8
4	87	86	88	88	83	88	78	77	73	83	78	79	75	76	73	71	71	76	79	81	85	85	89	85	80·6	13·9
5	82	89	92	91	87	92	82	86	83	81	75	76	75	69	69	69	66	64	68	68	75	85	83	87	78·9	12·3
6	78	83	79	86	84	78	66	72	67	67	77	73	71	61	63	60	66	67	67	67	68	73	73	74	71·9	**10·6**
7	69	70	77	74	80	73	75	72	84	79	72	76	72	81	67	73	75	73	69	84	82	79	76	76	75·3	11·1
8	74	73	75	72	73	75	76	72	71	75	67	68	69	62	59	66	66	67	69	67	78	85	84	87	**71·9**	11·3
9	89	89	91	90	91	91	88	79	75	73	69	72	70	70	72	73	71	70	72	78	76	85	79	86	79·1	12·3
10	78	82	81	87	90	90	88	80	80	76	83	82	82	81	80	78	78	74	80	89	89	90	90	91	83·2	14·8
11	91	96	93	95	94	94	85	78	72	69	67	70	66	73	68	87	89	93	92	97	94	97	93	92	85·2	15·2
12	92	90	92	92	96	96	95	85	88	80	85	74	72	76	74	79	78	76	75	83	85	87	88	88	84·5	15·3
13	90	90	91	90	93	92	89	88	80	83	81	75	83	85	89	89	90	90	90	92	90	93	91	91	88·1	15·0
14	91	90	93	90	94	93	90	93	87	86	80	82	78	78	78	69	69	71	74	76	87	86	82	85	83·5	13·9
15	82	83	87	87	88	81	78	75	71	71	74	69	69	70	74	73	71	74	74	83	87	83	85	85	78·1	13·4
16	81	87	88	84	81	88	80	79	90	89	91	86	84	84	84	80	78	71	71	70	69	80	77	80	81·4	14·5
17	86	82	82	88	88	87	86	86	90	97	92	90	91	91	81	86	80	85	89	78	81	85	86	87	86·3	15·2
18	79	81	81	85	80	87	93	92	90	91	94	94	89	88	88	89	87	89	89	82	81	80	94	87	87·1	14·5
19	73	79	85	87	84	79	84	78	87	86	85	86	78	72	74	73	82	74	74	76	79	81	75	69	79·5	12·9
20	67	65	66	67	76	72	76	61	69	72	77	74	68	68	70	73	76	74	70	75	75	78	83	86	72·1	11·5
21	87	87	89	87	86	87	87	85	89	89	88	90	90	90	89	85	83	88	89	90	92	90	94	91	88·3	15·1
29	92	93	94	96	96	97	93	91	90	89	92	88	98	94	94	96	92	87	87	89	90	90	88	91	92·0	**16·2**
23	91	90	90	87	91	90	88	88	81	74	74	72	71	68	69	69	70	77	74	80	87	88	87	87	81·0	13·8
24	85	90	91	90	90	88	88	90	91	93	94	91	93	85	89	94	91	90	91	92	90	94	95	94	90·6	15·2
25	96	96	95	96	93	91	94	95	89	75	72	68	70	70	68	71	67	75	78	77	79	82	83	88	82·1	13·4
26	89	89	88	91	91	90	87	80	77	67	59	68	66	76	68	69	72	75	77	79	80	88	83	86	79·0	12·4
27	85	83	83	81	87	74	82	81	78	73	73	73	71	71	75	70	71	75	76	79	78	77	79	88	77·6	12·7
28	78	80	78	81	83	86	83	88	77	80	74	76	69	70	81	76	78	79	78	80	85	88	88	86	80·1	13·2
29	85	92	97	95	92	90	91	93	97	93	98	98	93	95	91	95	91	90	89	90	89	89	88	91	**92·1**	16·1
30	93	91	92	93	90	90	90	87	89	83	83	77	82	82	82	81	81	80	85	94	95	94	95	91	87·5	14·8
31	91	91	96	95	96	97	97	93	89	86	87	82	80	87	86	85	83	85	85	89	92	94	90	91	89·5	15·0
Mean ...	85·3	86·7	87·8	88·1	**88·5**	87·3	85·9	83·8	82·6	81·1	80·4	79·5	77·8	78·1	**77·6**	78·5	78·5	79·0	79·8	82·4	84·3	86·5	86·4	87·0	83·0	†13·9
Vapour Pressure* ...	mb. **13·2**	mb. 13·3	mb. 13·3	mb. 13·3	mb. 13·3	mb. 13·4	mb. 13·6	mb. 13·8	mb. 14·1	mb. 14·2	mb. 14·3	mb. **14·5**	mb. 14·4	mb. 14·4	mb. 14·4	mb. 14·5	mb. 14·3	mb. 14·0	mb. 13·8	mb. 13·7	mb. 13·6	mb. 13·6	mb. 13·5	mb. 13·5	‡13·8	

380. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t = **1·3** metres.

August, 1931.

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	90	91	93	90	92	93	94	85	73	71	74	72	76	75	76	78	79	81	82	85	89	92	88	90	83·7	14·5
2	90	89	88	88	87	90	87	84	78	75	77	76	76	77	67	63	69	74	82	86	87	88	86	89	81·4	15·4
3	83	86	84	83	83	87	81	72	72	70	73	70	71	68	68	69	68	74	76	77	76	63	71	73	75·3	16·0
4	65	66	65	71	76	76	77	66	62	68	69	67	69	66	66	66	72	72	72	78	78	79	77	81	70·8	15·7
5	80	80	86	85	84	86	84	80	75	69	66	64	64	61	69	68	67	69	76	82	84	87	85	89	76·5	**18·0**
6	88	92	91	90	91	92	90	85	80	86	78	79	84	79	75	80	80	82	82	84	91	91	87	85	85·2	15·6
7	84	82	81	81	82	83	88	78	74	68	72	70	66	79	85	78	87	87	81	83	88	90	86	81	80·7	13·4
8	80	85	85	76	78	83	78	76	71	74	71	70	71	73	70	72	67	67	69	68	65	67	67	67	73·2	11·3
9	69	67	68	82	75	76	76	73	73	78	77	69	80	70	71	84	85	85	84	75	76	80	82	76	76·1	12·0
10	83	85	83	80	83	85	86	76	80	77	72	75	80	77	74	75	76	73	77	77	79	77	78	76	78·5	12·5
11	73	79	71	67	79	77	76	70	59	66	70	76	76	78	80	79	79	83	86	86	90	91	90	92	77·7	13·6
12	92	93	94	93	94	95	92	91	84	77	79	76	80	75	77	77	73	74	74	86	86	90	90	87	84·6	15·3
13	82	85	82	78	75	76	71	69	68	68	72	70	67	65	66	65	69	74	72	71	74	81	81	82	73·6	12·5
14	83	83	85	89	90	90	91	85	87	79	83	79	77	77	76	75	76	77	79	78	77	76	75	74	81·0	14·5
15	75	76	78	83	92	91	88	84	84	81	79	80	79	75	85	82	87	90	88	87	89	87	87	89	83·7	14·4
16	94	93	94	93	92	92	90	88	89	92	87	87	85	84	86	85	84	83	85	87	88	86	87	89	**88·3**	15·2
17	91	87	88	86	88	88	82	82	79	79	78	74	75	76	79	73	76	76	79	83	90	90	88	94	82·4	14·2
18	94	91	89	90	91	91	91	92	82	81	80	80	80	76	76	78	78	82	75	76	78	71	75	77	82·6	14·0
19	84	80	84	89	89	92	96	96	91	95	95	90	87	88	81	85	90	88	81	81	85	83	88	88	87·5	14·3
20	89	89	90	89	90	90	88	92	93	95	93	88	90	95	88	81	83	80	86	89	88	85	76	77	87·9	13·5
21	78	77	76	79	78	88	90	87	77	77	75	71	78	76	74	80	77	71	83	86	89	82	85	85	79·8	12·4
22	86	90	89	82	80	79	80	73	75	73	60	57	57	57	56	57	56	57	56	64	65	59	57	73	68·5	**9·9**
23	78	75	74	78	81	82	79	74	75	75	67	61	61	61	62	61	61	61	67	73	73	76	75	76	71·0	10·0
24	75	74	73	75	78	86	76	80	76	74	70	64	62	58	56	53	56	59	65	70	76	75	66	63	69·4	10·4
25	64	71	79	84	83	84	83	80	76	75	65	56	63	63	62	62	66	68	73	79	87	83	86	89	73·7	**9·9**
26	89	88	90	91	78	80	78	73	73	68	60	62	63	62	63	59	61	60	64	68	65	63	63	60	70·6	10·8
27	64	67	68	67	68	65	66	64	68	74	69	69	66	65	63	64	67	66	68	66	69	69	69	71	**66·9**	11·5
28	73	73	74	77	78	77	76	75	82	78	77	75	71	69	63	66	66	62	66	63	62	71	73	72	71·6	12·7
29	73	79	75	80	86	87	88	86	78	76	79	70	71	71	69	69	71	70	76	79	83	85	86	86	77·7	13·8
30	88	88	90	90	91	90	94	90	91	88	86	80	81	80	80	83	85	82	88	86	91	89	90	98	87·2	14·7
31	93	92	90	95	94	90	95	94	89	80	84	80	78	78	77	84	81	81	79	78	78	77	79	78	84·7	14·8
Mean ...	81·6	82·3	82·5	83·3	84·1	**85·2**	84·2	80·7	77·9	77·0	75·4	72·8	73·7	72·7	**72·3**	72·6	73·9	74·5	76·5	78·4	80·5	80·1	79·8	80·9	78·5	†13·4
Vapour Pressure* ...	mb. 12·9	mb. 12·9	mb. 12·8	mb. **12·7**	mb. 12·8	mb. 12·9	mb. 13·3	mb. 13·4	mb. 13·6	mb. 13·7	mb. 13·8	mb. 13·6	mb. **13·9**	mb. 13·9	mb. 13·8	mb. 13·8	mb. 13·8	mb. 13·6	mb. 13·6	mb. 13·4	mb. 13·3	mb. 13·0	mb. 12·8	mb. 12·8	‡13·3	
Hour, G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	

* Computed from the mean temperatures and the mean relative humidities. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

381. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t (height of thermometer bulbs above ground) = 1·3 metres.

September, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	74	87	83	81	87	90	92	92	89	89	88	89	85	81	81	79	87	90	93	97	94	93	93	95	87·5	15·8
2	94	94	98	92	92	93	95	92	85	85	91	90	86	88	82	80	86	90	88	92	88	88	89	90	89·6	14·7
3	89	88	89	90	89	90	89	89	89	86	83	86	84	84	74	74	71	70	73	69	72	67	66	69	80·9	11·6
4	66	66	74	77	71	65	70	63	64	64	58	65	65	63	69	63	56	57	66	68	71	75	75	82	**66·9**	**9·4**
5	75	75	73	75	74	71	74	71	68	67	64	70	66	63	65	61	61	60	67	70	72	71	73	73	69·3	9·7
6	71	80	78	84	87	90	91	86	79	74	65	65	59	62	57	59	66	66	68	76	74	75	83	84	73·9	9·7
7	88	86	86	90	87	94	95	87	77	75	68	61	66	62	64	60	61	67	68	75	82	83	83	84	77·0	9·9
8	86	89	88	89	87	86	86	79	71	66	53	57	61	61	58	64	66	70	77	78	78	80	79	85	74·7	10·3
9	87	84	92	88	89	88	88	87	84	66	51	56	53	56	49	55	59	71	72	65	71	77	77	81	72·8	10·3
10	83	80	84	88	88	91	93	96	79	76	73	69	71	70	73	70	72	76	81	85	88	87	86	84	80·9	11·0
11	79	86	87	88	88	85	85	83	80	79	77	76	77	66	78	86	87	88	86	91	91	95	93	92	84·1	12·8
12	90	92	91	94	96	95	98	99	97	92	92	91	92	93	96	93	93	93	96	97	98	90	90	88	93·7	15·4
13	92	92	91	94	95	97	96	95	98	91	93	90	90	90	97	98	94	93	94	96	94	97	96	96	94·0	15·4
14	97	96	98	99	99	98	96	95	95	93	89	90	90	94	94	94	96	97	94	92	93	97	98	98	95·0	15·9
15	98	95	96	95	96	93	97	94	97	87	87	83	84	81	81	81	81	86	84	91	91	91	94	94	90·0	15·3
16	91	92	96	96	93	92	91	94	89	84	85	86	83	83	86	90	89	91	89	89	89	90	90	90	89·6	15·1
17	91	91	92	94	94	94	96	96	96	97	96	98	97	98	98	97	98	97	96	96	97	94	96	97	**95·5**	16·2
18	97	96	96	97	96	96	93	94	97	98	97	92	94	92	91	97	97	92	94	91	97	99	99	96	95·4	**16·8**
19	93	97	91	98	93	92	96	92	90	91	90	86	78	88	88	81	88	81	87	80	88	88	88	87	89·0	15·8
20	86	82	77	79	79	83	76	58	58	51	52	50	46	46	50	55	57	63	64	76	76	76	75	81	66·6	10·7
21	80	81	86	87	86	87	88	89	88	85	78	77	77	76	71	71	74	77	84	82	87	89	89	89	82·3	12·6
22	89	89	88	89	86	86	74	86	77	70	64	63	53	49	57	67	70	77	85	83	86	86	86	87	77·0	10·2
23	87	91	93	87	87	91	87	94	89	76	77	76	72	91	80	80	79	84	87	81	83	80	87	88	84·0	11·5
24	84	85	81	76	80	75	86	86	85	69	70	66	69	67	75	71	69	73	68	69	71	76	77	72	75·3	11·6
25	72	76	68	69	70	76	71	75	75	67	67	63	67	67	68	69	71	76	68	75	70	72	77	80	71·0	11·1
26	87	86	75	69	76	85	87	78	75	74	71	69	69	83	80	83	88	87	87	88	88	88	87	89	81·0	12·3
27	88	85	88	89	85	87	86	86	81	75	62	60	64	59	66	64	67	71	76	82	84	86	86	87	77·7	11·1
28	85	89	85	89	88	87	89	92	88	78	69	72	70	77	73	77	76	70	80	77	78	81	83	85	80·8	11·5
29	86	87	89	89	87	87	88	85	82	90	90	90	91	96	90	89	93	93	98	95	97	91	93	95	90·3	13·5
30	96	90	89	88	80	81	81	85	83	79	81	84	81	75	85	81	79	87	86	88	90	89	89	90	85·0	13·2
Mean ...	86·0	86·9	86·7	87·3	86·8	87·5	**87·8**	86·6	83·5	79·1	76·0	75·7	**74·7**	75·0	75·9	76·3	77·7	79·8	81·9	83·1	84·6	85·0	85·9	86·9	82·4	†12·7
Vapour Pressure* ...	mb. 12·2	mb. 12·3	mb. 12·1	mb. 12·2	mb. **11·9**	mb. 11·9	mb. 12·0	mb. 12·4	mb. 12·8	mb. 12·7	mb. 12·5	mb. 12·7	mb. 12·8	mb. 12·9	mb. **12·9**	mb. **12·9**	mb. 12·9	mb. 12·9	mb. 12·8	mb. 12·7	mb. 12·6	mb. 12·5	mb. 12·5	mb. 12·3	‡12·5	

382. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t = 1·3 metres. **October, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	89	89	90	94	95	93	93	97	93	99	94	97	90	91	89	93	96	97	96	96	96	96	94	94	93·7	15·2
2	96	96	91	90	89	90	91	90	90	96	83	80	69	72	68	68	82	67	69	77	75	81	81	87	82·6	13·8
3	83	87	89	90	88	87	89	94	87	83	81	78	78	80	94	92	92	94	94	96	94	96	94	94	88·8	13·9
4	96	96	93	96	96	97	97	97	94	96	92	96	99	96	97	92	93	94	94	97	92	93	93	92	95·0	**16·6**
5	92	91	92	96	99	98	97	97	98	96	98	98	98	98	96	92	94	98	94	96	95	92	94	97	**95·6**	15·8
6	92	98	94	92	93	92	93	98	91	96	96	91	91	90	80	79	73	76	69	68	67	67	69	74	85·0	13·2
7	75	77	73	70	75	80	71	67	79	84	67	74	76	73	76	74	80	82	85	88	91	98	91	93	78·7	11·3
8	95	95	92	94	94	94	96	93	89	90	89	87	87	84	84	87	86	88	86	86	90	88	88	87	89·7	14·9
9	87	91	95	94	94	96	96	97	92	94	97	97	97	91	91	81	85	85	80	89	89	89	87	87	90·9	14·3
10	87	88	88	94	94	90	94	94	96	90	89	82	86	80	82	78	79	87	91	87	91	89	88	86	87·9	11·7
11	88	90	91	89	90	93	90	94	91	91	89	88	88	87	84	87	85	91	90	89	94	95	95	90	89·9	14·1
12	89	85	93	90	88	81	89	91	91	94	96	91	90	84	77	79	78	78	76	75	74	74	76	82	84·4	11·9
13	79	75	75	76	73	80	81	83	77	75	76	73	68	66	62	65	68	74	81	84	80	86	86	86	76·1	10·4
14	86	93	88	94	91	93	94	89	96	93	79	65	63	66	67	70	71	75	78	83	80	78	87	78	81·7	9·4
15	74	76	85	85	79	83	83	79	76	79	75	73	71	71	71	77	75	82	75	75	76	77	78	76	77·2	10·3
16	77	77	76	79	76	78	83	74	73	74	69	65	68	58	62	60	67	69	75	72	77	85	84	77	73·1	10·6
17	80	80	80	78	81	82	87	86	87	82	77	77	79	77	81	85	83	81	74	66	66	67	67	72	78·2	11·8
18	71	72	72	75	76	76	78	75	74	73	70	76	76	75	75	73	77	79	79	78	75	75	75	73	74·9	10·8
19	74	81	75	79	79	79	84	85	85	76	81	80	79	79	82	82	85	80	84	83	84	90	88	89	81·5	10·1
20	88	88	89	96	96	89	91	88	87	76	69	76	83	76	86	76	74	68	65	68	59	68	63	64	79·0	9·3
21	67	69	68	71	68	69	69	70	72	69	61	62	63	66	66	70	62	70	69	69	67	68	71	71	67·6	6·9
22	84	86	81	76	77	84	83	78	80	68	69	75	73	74	74	74	72	67	68	65	70	73	71	70	74·7	9·2
23	68	74	76	75	80	83	80	76	74	74	76	74	78	80	84	85	85	86	85	65	74	81	73	72	77·4	8·7
24	72	71	62	71	71	72	72	74	77	73	71	63	59	56	58	57	56	67	71	68	70	69	69	71	**67·5**	6·5
25	69	68	75	68	75	66	68	80	67	57	56	56	56	55	53	56	67	68	70	73	77	82	87	87	67·8	**5·5**
26	88	88	89	89	89	89	88	88	84	79	75	69	70	64	67	72	73	72	78	73	78	91	91	86	80·4	6·7
27	87	94	96	94	93	93	98	98	95	92	89	94	89	90	89	91	90	90	93	89	92	90	90	90	91·8	11·2
28	92	94	93	98	95	94	91	89	89	88	82	87	87	89	88	93	89	93	94	95	95	95	94	93	91·5	12·4
29	90	95	98	96	90	91	97	95	90	89	89	89	85	89	88	89	90	91	93	89	85	82	85	82	90·1	12·9
30	87	88	87	90	93	91	90	93	97	91	91	94	88	90	89	89	89	89	87	87	89	97	95	95	90·4	13·1
31	93	94	95	91	91	93	94	93	91	91	90	85	85	87	86	87	89	89	89	89	90	89	89	87	90·0	13·6
Mean ...	83·7	85·3	85·2	86·1	86·1	86·3	**87·3**	87·2	85·9	84·1	81·2	80·4	79·7	**78·5**	78·9	79·1	80·2	81·5	81·7	81·1	81·7	84·0	83·7	83·3	83·0	†11·5
Vapour Pressure* ...	mb. 10·8	mb. 10·9	mb. 10·8	mb. 10·9	mb. 10·9	mb. 10·8	mb. 10·9	mb. 11·0	mb. 11·3	mb. 11·6	mb. 11·7	mb. 11·8	mb. **11·9**	mb. 11·7	mb. 11·7	mb. 11·5	mb. 11·4	mb. 11·3	mb. 11·1	mb. 10·9	mb. **10·8**	mb. 10·9	mb. 11·0	mb. 10·9	‡11·2	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	

* Computed from the mean temperatures and the mean relative humidities. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

383. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t (height of thermometer bulbs above ground) = 1·3 metres.

November, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	88	82	81	78	78	77	78	82	83	81	87	91	93	94	96	98	98	98	96	96	95	95	95	98	88·9	13·4
2	96	96	94	93	92	93	94	97	97	99	98	99	96	98	98	98	98	96	96	95	96	93	93	93	**95·9**	**15·2**
3	92	92	94	94	90	90	95	98	98	97	95	96	88	90	90	88	82	88	90	91	89	90	98	90	91·9	14·0
4	88	74	74	74	74	72	77	75	73	76	77	74	72	69	75	85	81	84	82	89	92	88	88	87	79·2	10·7
5	92	87	87	88	89	88	88	88	88	91	84	82	85	79	83	78	83	83	82	90	94	91	87	85	86·4	11·0
6	85	83	87	84	87	87	86	86	91	82	87	75	84	79	82	84	83	80	86	85	85	88	91	86	84·7	9·7
7	87	83	78	74	75	74	73	69	69	66	71	73	75	75	74	81	86	86	86	73	75	76	87	87	77·2	9·1
8	86	86	80	81	79	86	78	81	75	70	73	74	70	66	67	68	79	88	85	93	88	88	86	80	79·6	9·2
9	86	82	88	90	86	76	83	79	74	76	75	77	79	77	87	83	82	87	84	82	86	83	81	84	81·9	10·2
10	77	81	81	79	83	80	79	78	84	82	80	77	78	85	87	86	82	85	81	82	84	81	80	77	81·4	10·5
11	84	84	76	85	87	82	80	79	80	71	82	86	79	80	74	81	75	76	75	71	73	72	74	74	78·4	10·2
12	68	67	63	74	65	75	77	76	71	69	64	54	64	75	63	73	73	74	68	82	85	85	84	85	**72·0**	8·7
13	81	81	85	84	77	83	78	82	83	76	80	77	76	76	86	89	92	95	93	89	92	96	95	86	84·6	10·5
14	80	76	74	73	70	71	73	64	81	86	76	79	75	74	84	78	86	93	88	93	88	95	87	88	80·5	9·0
15	88	91	88	93	96	98	98	88	93	90	96	96	96	88	88	88	89	88	91	87	89	97	97	97	91·9	8·3
16	97	90	90	94	90	86	80	80	84	82	78	79	74	75	76	76	76	80	79	76	77	76	76	76	81·6	9·3
17	77	80	84	85	85	87	90	90	89	93	93	94	97	97	97	95	96	95	93	91	93	93	94	94	90·5	12·1
18	98	95	93	89	87	90	87	83	83	84	88	88	84	82	76	84	82	86	86	85	85	91	89	88	86·9	10·6
19	91	77	88	88	86	79	84	86	89	86	79	86	85	87	84	88	87	89	87	95	91	89	96	85	86·8	8·4
20	85	85	87	87	96	94	93	88	90	97	89	84	83	89	86	75	65	63	72	78	74	81	72	85	83·3	8·0
21	81	74	78	85	67	69	76	72	74	84	72	76	78	74	65	78	73	76	79	78	73	79	81	78	76·0	**7·9**
22	71	74	77	73	74	71	73	73	72	70	69	68	72	79	80	74	76	81	85	89	90	94	91	91	77·5	9·3
23	88	88	91	93	95	95	93	93	96	91	87	87	88	88	87	83	77	76	69	80	73	72	83	84	85·9	9·6
24	90	82	82	78	77	87	88	90	94	95	95	90	90	87	87	87	87	87	85	79	82	83	89	87	86·5	10·6
25	82	82	79	87	87	88	89	88	88	93	93	87	88	88	88	92	88	87	87	89	87	87	84	81	87·2	10·6
26	89	81	87	88	86	75	77	88	84	87	73	81	74	71	72	65	69	70	71	75	79	87	87	86	79·1	9·0
27	83	82	78	75	82	80	78	78	74	78	81	87	87	89	93	92	95	97	96	96	98	99	98	95	86·9	11·2
28	94	93	93	93	93	96	94	98	97	95	95	97	96	96	96	97	97	95	95	98	93	88	88	84	94·4	13·0
29	88	76	73	73	72	65	70	72	70	63	67	63	63	62	63	70	66	80	84	82	84	85	84	83	73·3	8·1
30	84	84	87	88	74	94	88	90	87	87	89	87	87	84	85	88	88	88	87	87	84	78	76	80	85·5	9·1
Mean ...	85·9	82·9	83·2	84·0	82·6	82·9	83·2	83·0	83·7	83·2	82·4	82·1	81·9	**81·8**	82·3	83·4	83·0	85·0	84·6	85·9	85·8	86·7	**87·0**	85·8	83·9	†10·2
Vapour Pressure* ...	mb. 10·0	mb. **9·7**	mb. 9·8	mb. 9·9	mb. 9·8	mb. **9·7**	mb. 9·8	mb. 9·7	mb. 9·8	mb. 10·1	mb. 10·5	mb. 10·5	mb. **10·6**	mb. 10·5	mb. 10·5	mb. 10·5	mb. 10·3	mb. 10·4	mb. 10·2	mb. 10·1	mb. 10·0	mb. 10·1	mb. 10·1	mb. 10·0	‡10·1	

384. Cahirciveen (Valentia Observatory) : North Wall Screen : h_t = 1·3 metres.

December, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	82	86	88	89	89	94	92	98	98	96	92	92	89	84	86	85	84	82	81	82	81	81	81	78	87·1	11·1
2	78	76	69	67	75	74	75	81	93	90	90	95	97	98	94	89	90	89	89	91	91	93	93	95	86·0	11·3
3	94	91	97	88	82	79	81	75	69	66	66	73	68	69	75	73	77	73	89	96	94	94	95	94	81·6	11·0
4	93	89	86	86	90	90	95	98	95	77	70	64	64	58	62	63	69	63	63	62	55	64	62	65	74·9	10·4
5	67	73	74	75	82	84	79	85	83	84	88	74	86	86	89	93	94	91	81	70	60	65	60	53	78·4	9·2
6	56	63	73	84	83	85	83	84	85	90	84	79	71	63	67	67	67	59	62	70	70	70	78	79	73·3	7·3
7	83	82	82	82	83	85	87	94	91	85	74	71	73	73	74	74	78	95	92	95	89	89	84	79	83·1	8·6
8	77	78	76	84	84	86	84	86	86	87	76	82	79	73	75	71	73	78	73	69	76	76	86	82	79·0	9·3
9	82	84	87	87	87	87	88	91	92	88	87	87	89	87	84	90	93	93	99	96	97	97	96	94	89·8	11·1
10	94	93	93	92	95	97	98	99	99	98	99	97	98	94	89	87	88	89	96	96	93	93	92	91	94·2	11·6
11	96	95	92	97	92	88	88	89	89	87	91	89	88	88	89	94	91	91	93	98	98	98	98	94	92·1	10·6
12	99	94	98	92	90	91	91	90	92	88	93	91	93	86	85	86	86	88	88	88	86	88	83	88	89·9	9·6
13	81	82	88	88	88	92	94	91	88	88	86	87	87	87	87	84	82	84	86	83	86	86	86	87	86·6	10·0
14	87	87	87	86	87	87	87	87	87	86	91	91	87	89	89	90	93	91	89	92	93	92	87	91	88·8	11·1
15	89	88	89	87	87	87	87	71	62	76	84	79	68	65	65	70	70	72	71	68	73	72	74	78	76·6	9·3
16	76	75	74	74	74	73	74	74	74	75	74	73	70	68	69	70	68	69	68	67	69	66	68	69	71·5	8·8
17	71	71	71	74	74	74	74	73	74	74	74	77	83	84	84	86	83	84	80	83	82	84	83	86	78·1	9·7
18	87	86	82	82	82	82	78	78	78	83	84	84	86	84	86	86	86	86	80	79	83	86	83	83	83·1	10·1
19	86	91	89	89	89	92	93	89	93	95	91	88	84	88	87	87	86	87	86	91	84	86	84	85	88·3	10·3
20	85	83	76	77	80	81	80	73	78	76	80	75	74	72	71	73	73	72	73	73	71	73	74	74	75·9	8·5
21	74	78	76	76	77	73	76	74	76	85	76	78	79	76	76	75	79	80	81	80	78	85	80	88	77·9	8·9
22	81	80	84	84	84	83	80	81	80	75	74	74	73	78	82	86	83	86	84	82	76	78	80	84	80·6	9·7
23	86	89	88	88	89	89	89	92	92	91	90	91	94	94	94	93	94	92	90	90	93	94	97	97	91·2	11·5
24	97	95	93	93	93	93	97	98	98	97	98	97	96	93	96	95	93	95	91	91	90	91	91	93	94·4	**12·8**
25	94	95	96	97	98	96	98	97	97	97	96	93	93	96	96	98	98	92	96	93	90	92	93	94	**95·2**	12·7
26	94	94	95	95	95	95	98	97	97	97	95	91	96	69	78	75	75	71	74	67	62	69	64	68	84·3	11·1
27	65	67	65	79	67	67	75	65	74	75	74	74	67	72	70	73	70	67	67	74	75	76	75	76	71·0	9·2
28	79	81	84	83	82	80	85	91	87	89	87	83	75	66	64	79	67	64	56	70	74	83	57	51	76·2	8·8
29	53	61	44	54	55	82	73	77	74	82	65	56	69	65	55	55	65	76	69	61	60	73	58	69	**64·3**	**5·9**
30	75	74	76	82	75	79	84	71	84	83	71	76	70	76	84	85	84	88	93	90	88	85	83	91	80·7	6·7
31	85	89	85	90	85	91	84	93	85	97	96	97	93	91	93	92	99	93	100	96	94	92	98	98	92·2	8·3
Mean ...	82·1	82·9	82·5	83·9	83·7	85·0	85·4	85·2	85·5	**85·7**	83·7	82·5	81·9	**79·7**	80·5	81·4	81·9	81·9	81·9	82·0	81·0	82·9	81·4	82·4	82·8	†9·8
Vapour Pressure* ...	mb. 9·6	mb. 9·6	mb. **9·5**	mb. 9·7	mb. 9·6	mb. 9·7	mb. 9·8	mb. 9·8	mb. 9·9	mb. **10·0**	mb. 9·9	mb. 9·9	mb. 9·9	mb. 9·7	mb. 9·7	mb. 9·7	mb. 9·7	mb. 9·7	mb. 9·6	mb. 9·6	mb. 9·6	mb. 9·8	mb. 9·6	mb. 9·7	‡9·7	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean.	

* Computed from the mean temperatures and the mean relative humidities. † Mean of the column. ‡ Mean of the row.

HUMIDITY: ANNUAL MEANS FROM HOURLY VALUES.

For exact hours, Greenwich Mean Time.

385. Cahirciveen (Valentia Observatory): North Wall Screen: $h_t = 1·3$ metres. **1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Relative Humidity ...	% 83·2	% 83·6	% 83·8	% 84·3	% 84·3	% **84·6**	% 84·3	% 83·1	% 82·0	% 81·0	% 79·5	% 78·3	% 77·4	% 77·5	% **77·3**	% 77·7	% 78·3	% 79·5	% 80·5	% 81·4	% 82·3	% 83·0	% 82·9	% 83·3	% 81·4
Vapour Pressure in millibars*	mb. 10·3	mb. 10·3	mb. 10·2	mb. 10·3	mb. **10·2**	mb. 10·3	mb. 10·4	mb. 10·5	mb. 10·7	mb. 10·8	mb. 10·9	mb. 11·0	mb. 11·0	mb. **11·0**	mb. 11·0	mb. 11·0	mb. 10·9	mb. 10·8	mb. 10·7	mb. 10·6	mb. 10·5	mb. 10·5	mb. 10·4	mb. 10·4	mb. 10·6

* Computed from the mean temperatures and mean relative humidity.

RELATIVE HUMIDITY: MONTHLY MEANS AND DIURNAL INEQUALITIES.

The departures from the mean of the day are adjusted for non-cyclic change.

386. Cahirciveen (Valentia Observatory): North Wall Screen: $h_t = 1·3$ metres. **1931.**

Month	Mean.	Hour. 1.	G.M.T. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Jan.	81·2	−3·2	−1·7	+0·2	+0·8	+1·9	+1·4	+1·3	+1·5	**+2·2**	+1·9	+1·1	+0·9	0·0	−0·3	−0·6	+1·0	+0·4	+0·5	+0·9	−0·4	−1·9	−1·9	−2·5	**−3·5**
Feb.	80·4	+1·2	+0·6	0·0	+0·7	+0·1	+0·5	+0·3	+0·5	+1·8	**+3·2**	+1·1	−1·7	−2·6	−0·8	−2·8	**−3·9**	−1·7	+0·3	−0·1	+0·2	+1·5	+1·2	−0·3	+0·7
Mar.	**77·6**	+1·8	+1·8	+2·3	+1·3	+2·7	**+3·5**	+2·9	+3·0	+1·4	0·0	−0·6	−3·5	**−4·7**	−4·2	−3·7	−4·0	−4·1	−1·4	−0·1	+1·2	+1·4	+0·8	+1·1	+1·1
Apr.	78·5	+4·0	+4·2	+3·6	+4·9	+4·7	**+5·2**	+3·6	+0·4	−0·3	−1·8	−3·1	−3·7	−5·8	−4·8	−5·4	**−6·1**	−4·7	−3·7	−2·0	−0·2	+2·4	+2·4	+2·2	+4·0
May	79·5	+4·0	+4·7	**+5·1**	+5·0	+4·7	+4·9	+3·8	+0·1	−2·4	−3·4	−3·4	−4·9	**−7·2**	−5·2	−5·7	−5·0	−5·0	−3·3	−1·3	0·0	+2·1	+3·2	+4·6	+4·6
June	**85·7**	+3·6	+3·6	+3·0	+3·0	+2·8	+2·2	+2·1	+1·9	−1·1	−0·8	−3·3	−3·9	−3·6	−3·3	**−4·6**	−4·1	−3·2	−3·0	−1·2	−0·2	+1·7	+1·9	+2·7	**+3·8**
July	83·0	+2·2	+3·6	+4·7	+5·0	**+5·4**	+4·2	+2·8	+0·8	−0·5	−2·0	−2·7	−3·6	−5·2	−4·9	**−5·4**	−4·5	−4·6	−4·0	−3·2	−0·6	+1·4	+3·6	+3·4	+4·1
Aug.	78·5	+3·0	+3·7	+3·9	+4·7	+5·5	**+6·6**	+5·7	+2·1	−0·6	−1·5	−3·1	−5·6	−4·8	−5·7	**−6·1**	−5·8	−4·4	−3·9	−1·9	+0·1	+2·2	+1·8	+1·5	+2·6
Sept.	82·4	+3·8	+4·7	+4·5	+5·1	+4·6	+5·2	**+5·5**	+4·3	+1·2	−3·2	−6·3	−6·7	**−7·7**	−7·4	−6·5	−6·1	−4·7	−2·7	−0·6	+0·6	+2·1	+2·5	+3·4	+4·4
Oct.	83·0	+0·7	+2·3	+2·2	+3·1	+3·0	+3·3	**+4·3**	+4·1	+2·9	+1·1	−1·8	−2·6	−3·4	**−4·5**	−4·1	−3·9	−2·8	−1·5	−1·3	−1·8	−1·3	+1·0	+0·7	+0·3
Nov.	83·9	+1·9	−1·0	−0·7	+0·1	−1·3	−1·0	−0·7	−0·9	−0·2	−0·7	−1·4	−1·7	−2·0	**−2·1**	−1·5	−0·4	−0·8	+1·2	+0·8	+2·1	+2·0	+2·9	**+3·3**	+2·1
Dec.	82·8	−0·4	+0·4	−0·1	+1·3	+1·0	+2·4	+2·7	+2·5	+2·8	**+3·0**	+1·0	−0·3	−0·9	**−3·1**	−2·4	−1·5	−1·0	−1·0	−1·0	−0·9	−2·0	−0·1	−1·7	−0·7
Year	81·4	+1·9	+2·2	+2·4	+2·9	+3·0	**+3·2**	+2·9	+1·7	+0·6	−0·4	−1·9	−3·1	−4·0	−3·9	**−4·1**	−3·7	−3·1	−1·9	−0·9	0·0	+1·0	+1·6	+1·6	+2·0

RAINFALL: ANNUAL TOTALS OF HOURLY VALUES.

Amounts, in millimetres; durations in hours for periods of sixty minutes between the exact hours, Greenwich Mean Time.

387. Cahirciveen (Valentia Observatory): H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 9·1 metres + 0·5 metre. **1931.**

Hour. G.M.T.	0 to 1.	1 to 2.	2 to 3.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10. to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	21 to 22.	22 to 23.	23 to 24.	0 to 24.
Amount	mm. 59·0	mm. 68·6	mm. **77·5**	mm. 76·5	mm. 68·5	mm. 50·4	mm. 53·4	mm. 54·7	mm. 55·2	mm. 62·5	mm. 73·1	mm. 53·8	mm. 53·1	mm. **40·8**	mm. 47·0	mm. 45·2	mm. 61·1	mm. 65·5	mm. 61·7	mm. 75·8	mm. 64·4	mm. 50·5	mm. 53·7	mm. 51·4	mm. 1423·4
Duration	hr. 38·1	hr. 39·8	hr. **49·2**	hr. 46·1	hr. 48·2	hr. 48·1	hr. **49·2**	hr. 43·4	hr. 46·1	hr. 38·9	hr. 38·5	hr. 30·2	hr. 31·5	hr. **26·0**	hr. 31·4	hr. 32·9	hr. 38·9	hr. 45·5	hr. 41·8	hr. 41·9	hr. 39·5	hr. 36·7	hr. 32·2	hr. 33·6	hr. 947·7

388. Cahirciveen (Valentia Observatory). NOTES ON RAINFALL. **1931.**

Notable Falls of the Year.—
Details of the greatest continuous falls are as follows:—

Date.	Amount. mm.	Duration. hrs.	Date.	Amount. mm.	Duration. hrs.
February 7—8	22	8·3	June 7	20	3·8
March 31—April 1	39	20·0	November 3	31	10·3
May 5—6	22	8·2	November 17	58	20·5

There were no "noteworthy" falls in short periods.
The greatest fall in the year between one exact hour and the next was 8·6 mm. between 10h. and 11h. on November 3rd.

Dry Periods.—
The longest period without rain was the ten days from September 19th to September 28th.

Wet Periods.—
There was a period of 23 days from January 11th to February 2nd on all of which rain was measured and on only one day was the amount less than 1·0 mm. (0·4 mm. on January 17th).
During the 55 days January 11th to March 6th there were only two days without rain and two days with 0·1 mm.
During the 39 days October 31st to December 8th 369·5 mm. of rain fell. There were three days during this period with less than 0·2 mm.

Amounts in millimetres, for periods of sixty minutes between the exact hours, Greenwich Mean Time.

389. Cahirciveen (Valentia Observatory) : H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 9·1 metres + 0·5 metre. **January, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·3	...	...	...	1·7	...	...	2·1	0·6
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	...	...	·2	...	...	...	...	...	...	0·7	0·4
4	...	...	·1	·2	·3	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	1·1
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	...	...	...	...	0·3	0·5
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	1·6	·7	...	...	...	·9	...	3·8	2·3
12	...	·6	·1	·3	·3	...	·8	·5	·3	...	·3	·5	·1	1·3	·3	...	·4	...	·2	...	...	...	...	...	6·0	3·9
13	...	...	...	·4	·4	...	·1	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	0·4
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·7	·1	...	·2	·1	...	...	·1	1·2	1·2
15	...	·3	·6	·2	...	·3	·1	·1	(...)	(...)	(·1)	(...)	...	...	...	...	...	·1	·3	...	·1	...	...	...	2·2	4·4
16	...	...	...	...	(...)	(...)	(·1)	(...)	(...)	(·1)	(...)	(...)	(...)	(...)	·1	...	...	·2	·3	·2	·5	...	...	...	1·5	2·9
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	...	...	...	...	...	0·4	0·2
18	...	...	·1	·2	·7	·3	·1	...	(...)	(...)	(...)	(...)	(...)	(·1)	(...)	(...)	(...)	·4	...	...	·3	...	...	·1	2·3	4·7
19	·3	·3	·1	·1	·1	·2	·1	·1	...	...	...	·4	·1	·9	1·0	1·1	·8	·3	·4	...	...	...	...	...	6·3	11·3
20	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·8	1·3	·6	3·0	2·5
21	·2	...	...	...	·4	·7	·5	·2	...	...	...	...	·3	...	...	...	...	...	...	...	...	...	...	...	2·3	3·8
22	...	...	·1	...	...	...	·2	...	...	·6	...	·1	·9	·5	·7	·8	·5	·2	·4	·2	...	...	...	...	5·2	7·6
23	...	...	·1	...	...	·1	...	...	...	...	·3	2·1	·1	...	...	·1	...	...	·2	(...)	·3	·4	...	·4	4·1	2·6
24	·3	·4	...	·3	·4	...	·2	...	...	...	...	...	...	...	...	...	·8	·1	·6	·5	...	...	...	...	3·6	2·7
25	·3	...	·1	...	·1	...	...	...	...	·6	...	...	·8	...	...	...	...	·2	·2	·1	...	...	·2	...	2·6	1·3
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	·2	...	·2	·1	...	...	·2	1·2	3·0
27	1·3	1·4	·2	·7	·4	·8	·5	·3	·2	...	·7	·8	·3	...	...	...	...	...	...	...	...	...	...	...	7·6	8·4
28	·1	·2	...	...	·5	...	·1	...	·2	...	...	...	·1	·9	·4	...	...	...	...	...	·3	·4	...	...	3·2	2·0
29	·1	...	·1	...	...	...	...	...	·1	...	·2	·4	·2	·2	·2	·1	·3	...	...	...	...	...	...	...	1·9	1·8
30	...	...	...	·1	...	...	·1	·1	·1	...	...	...	...	...	...	...	...	·4	·3	·9	·1	...	...	...	2·1	3·1
31	...	·4	·3	1·0	1·0	...	·6	3·5	2·7	1·4	·6	·2	·1	...	·3	·5	1·0	1·4	·6	...	...	...	...	...	**15·6**	**12·0**
Sum.	2·6	3·6	2·2	3·5	4·8	2·4	3·5	5·0	3·6	2·7	2·2	4·5	3·0	3·9	3·6	2·5	5·4	**5·7**	4·6	2·6	1·9	3·3	2·4	1·4	80·9	84·7
Total Duration.	hr. 3·0	hr. 4·0	hr. 4·7	hr. 4·8	hr. 5·2	hr. 4·2	hr. 4·4	hr. 3·6	hr. 2·3	hr. 1·4	hr. 1·8	hr. 2·7	hr. 2·8	hr. 2·7	hr. 4·0	hr. 3·1	hr. 5·8	hr. **7·5**	hr. 5·8	hr. 3·5	hr. 2·4	hr. 1·6	hr. 1·0	hr. 2·4	hr. 84·7	

390. Cahirciveen (Valentia Observatory) : H_r = 9·1 metres + 0·5 metre. **February, 1931.**

	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	·2	...	...	·2	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	·1	·4	·2	1·3	2·5	2·3
2	1·4	1·1	·6	·1	·5	·1	·9	1·0	1·5	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7·4	6·8
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	·2	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	0·4	0·9
5	...	...	...	·1	...	...	...	...	...	·2	·3	...	...	...	...	·3	1·5	2·7	1·8	·8	·3	...	...	...	8·0	5·6
6	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·2
7	...	·2	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	·1	·5	·8	2·1	3·0	2·6	3·5	12·9	6·0
8	4·0	5·0	·4	·4	·2	·8	...	·1	...	...	·1	...	...	...	...	...	...	·1	...	·5	...	·3	·1	...	12·0	6·7
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·6	·6	·6	·1	...	...	·1	·3	·5	2·8	4·0
10	...	·2	·7	·8	...	...	·5	1·7	...	...	·1	...	...	·4	...	...	·2	·2	...	·2	...	...	...	...	5·0	2·6
11	...	...	·4	·9	1·5	·1	...	1·4	1·4	·3	...	·1	...	1·2	...	·2	...	...	...	...	·2	·2	...	·1	8·0	4·9
12	...	...	·1	...	·1	·4	·1	·1	·2	...	...	...	...	·2	·2	...	...	1·0	·2	·5	·2	·3	·4	·5	4·5	2·6
13	...	...	·1	·6	1·6	·9	...	...	...	·3	·1	...	...	...	...	...	·5	...	·2	...	...	...	...	...	4·3	2·2
14	·1	...	...	...	...	...	...	·1	·5	1·1	1·0	·6	·7	...	...	·1	·2	...	...	...	...	...	·2	·1	4·7	5·9
15	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·1
16	·1	·1	·2	...	1·2	·1	...	...	...	·6	·2	...	...	·3	·2	...	·1	·6	...	·1	·3	...	·1	·5	4·7	2·6
17	·2	...	...	·4	...	·5	1·3	·6	·4	...	...	...	·2	·2	...	...	...	...	...	2·9	·8	...	...	...	7·5	3·1
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	·2	·3	·6	1·3	·5	·1	...	...	...	...	...	...	...	·3	·3	...	...	·1	3·7	6·2
20	·1	·5	·5	·3	...	...	...	...	...	...	...	...	·2	...	...	...	...	·3	·1	...	·6	·6	·1	·5	3·8	2·9
21	·3	·1	·9	·1	·4	...	...	...	...	·2	·2	·1	...	1·2	·8	...	...	...	...	·2	·8	·3	...	...	5·6	2·8
22	...	...	...	...	...	...	...	...	·1	...	·1	...	...	1·0	·2	...	...	·6	...	...	...	...	...	...	2·0	0·9
23	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·2
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·6	·3	·3	·6	...	·1	...	...	...	1·9	3·5
25	·2	...	·2	...	·2	...	·1	...	...	...	1·9	...	·2	...	...	...	...	...	...	...	...	·1	·1	...	3·0	4·1
26	...	...	·2	1·1	·5	·1	·2	·1	...	1·6	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	4·3	4·4
27	·5	·2	·3	...	·1	...	...	...	·6	1·4	1·9	1·4	3·4	2·4	1·8	2·8	...	...	...	...	...	·1	...	...	**16·9**	**10·3**
28	...	...	...	...	·1	...	·1	...	·2	·2	...	...	...	...	·1	...	1·3	·2	...	·4	·3	·4	...	...	3·3	3·7
Sum.	7·3	**7·6**	4·7	4·8	6·6	3·1	3·4	5·5	5·5	**7·6**	6·4	2·5	4·7	6·9	3·3	4·6	4·7	6·7	3·5	6·7	6·1	5·8	4·1	**7·6**	129·7	95·5
Total Duration.	hr. 4·3	hr. 4·2	hr. 4·1	hr. 4·2	hr. 5·1	hr. 3·0	hr. 3·0	hr. 4·7	hr. **6·2**	hr. 6·0	hr. 5·1	hr. 2·9	hr. 2·1	hr. 2·3	hr. 2·0	hr. 2·9	hr. 4·3	hr. 4·8	hr. 3·0	hr. 4·8	hr. 3·8	hr. 4·6	hr. 3·7	hr. 4·4	hr. 95·5	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts in millimetres, for periods of sixty minutes between the exact hours, Greenwich Mean Time.

391. Cahirciveen (Valentia Observatory): H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 9·1 metres + 0·5 metre. **March, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration 0–24.
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·1
2	...	...	...	·6	·6	·2	...	...	...	...	...	...	...	...	...	...	·1	·1	·2	...	...	...	...	...	1·8	3·6
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	·1	...	...	...	...	·2	0·6	1·4
4	1·2	·6	1·1	·9	2·0	·8	·1	·5	·2	...	·7	...	...	·1	...	...	...	...	·4	...	...	...	...	...	8·6	10·5
5	...	...	...	...	...	...	...	·8	·2	...	...	...	...	...	·3	·7	1·5	1·2	1·2	2·4	2·9	1·7	·9	·4	14·2	9·7
6	·5	1·0	·4	...	·2	·1	...	...	...	...	...	...	...	·7	·9	·4	...	...	·1	...	·1	...	...	...	4·4	6·1
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	(✱)	(✱)	(·1)	...	...	...	...	...	...	...	...	...	0·1	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·3
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	0·3	0·4
13	...	...	·8	·2	2·6	1·7	·3	1·6	2·5	1·4	...	...	...	...	·5	...	...	·2	...	...	...	...	·2	...	12·0	4·7
14	·8	...	...	...	...	·2	...	·6	...	·3	...	...	...	...	...	...	...	...	...	...	...	·3	·2	1·4	3·8	1·9
15	2·6	...	...	...	...	·4	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·1	0·9
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	·4	...	...	...	...	0·9	1·6
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	·1	...	·5	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	0·7
19	...	...	·1	...	...	...	...	...	...	·2	·2	1·0	·2	...	...	...	...	...	...	...	...	...	·2	...	1·9	2·6
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·1	...	·5	·2	0·9	2·4
21	·1	·1	·8	...	...	...	...	·1	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·2	1·2
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	0·1	0·1
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·7	·4	·3	·4	·1	...	·1	2·0	4·3
28	·3	...	...	...	...	...	·3	·3	·4	...	...	...	...	...	·9	·9	·4	...	·1	...	...	·1	...	·2	3·9	4·2
29	·5	·9	2·4	1·1	·2	...	·7	1·1	...	1·5	...	·1	·2	·1	...	·7	...	...	...	...	...	·2	...	...	9·7	8·4
30	...	·4	·2	·1	·2	·1	...	...	...	·4	2·1	1·5	1·7	·1	...	·1	·3	·6	·4	·5	...	...	·4	...	9·1	7·2
31	...	·2	1·9	...	...	...	·2	·1	...	·2	1·6	...	2·0	1·6	·8	·7	1·6	1·9	3·3	3·0	1·5	2·3	3·5	3·3	**29·7**	**15·1**
Sum.	6·0	3·2	**7·7**	2·9	5·8	3·7	1·6	5·2	3·4	4·6	5·1	2·6	4·1	2·6	3·5	3·5	3·9	5·2	6·7	6·7	5·0	4·7	5·9	5·8	109·4	87·4
Total Duration.	hr. 4·3	hr. 3·5	hr. 4·6	hr. 3·3	hr. 3·4	hr. 3·9	hr. 2·7	hr. 3·7	hr. 2·6	hr. 2·4	hr. 3·1	hr. 2·1	hr. 2·7	hr. 1·9	hr. 3·3	hr. 4·5	hr. 3·1	hr. 4·4	hr. **7·0**	hr. 4·6	hr. 4·1	hr. 3·0	hr. 3·4	hr. 4·8	hr. 87·4	

392. Cahirciveen (Valentia Observatory): H_r = 9·1 metres + 0·5 metre. **April, 1931.**

Day.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration 0–24.
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	2·7	2·1	1·7	1·5	1·4	1·2	1·7	1·0	·8	1·2	·3	...	...	...	...	...	·1	·5	·2	...	...	...	...	...	**16·4**	**12·6**
2	...	...	...	...	·1	·1	...	...	...	...	·4	·3	...	...	...	...	...	...	·1	...	...	...	...	...	1·0	1·6
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	0·3
5	...	...	·4	...	...	·1	·1	·1	·4	1·0	·8	·6	·1	·2	·1	·2	·3	·2	·1	·6	...	...	...	...	5·3	10·0
6	...	·1	·5	·5	·6	·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·1	4·1
7	...	·2	...	...	...	...	...	...	...	...	...	·2	...	...	·1	...	1·2	1·2	1·2	3·9	3·5	1·9	·9	·4	14·7	8·2
8	·5	2·5	...	·7	2·4	·4	2·6	·1	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9·3	3·8
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·7	·5	·2	...	1·4	1·5
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	1·3	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·5	0·9
16	...	...	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·1
17	...	...	...	...	·1	·1	·4	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·2	1·1	1·9
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	0·2	0·2
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	·1	·5	·3	...	...	...	...	...	...	...	...	·2	1·1	0·9
23	1·3	·8	·7	...	...	...	...	...	·6	...	...	·5	·4	·2	...	...	...	...	·4	...	1·7	...	·1	...	6·7	3·7
24	·2	3·2	3·5	1·1	·1	...	·4	...	...	...	...	...	1·0	·3	...	...	...	...	...	...	1·2	1·3	...	...	12·3	5·9
25	...	...	...	...	...	...	...	...	...	·6	...	...	1·0	...	...	...	...	...	...	·2	...	...	·3	·1	2·2	1·2
26	·2	·5	·3	·1	...	·4	...	·3	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	2·0	1·9
27	...	...	...	...	...	·2	(...)	(...)	(...)	(·1)	(...)	(...)	...	...	...	...	...	...	...	...	...	·1	·1	...	0·5	0·6
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·9
30	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(ρ)	(ρ)	0·1	0·3
Sum.	5·1	**9·5**	7·5	4·2	4·7	2·9	6·6	1·9	1·8	3·0	1·7	1·6	2·6	1·2	0·5	0·2	1·6	1·9	2·0	4·7	7·1	4·0	1·7	0·9	78·9	60·6
Total Duration.	hr. 3·2	hr. **5·1**	hr. 4·3	hr. 3·5	hr. 3·5	hr. 3·3	hr. 3·7	hr. 2·5	hr. 2·1	hr. 2·4	hr. 2·4	hr. 1·9	hr. 2·0	hr. 1·6	hr. 0·9	hr. 0·9	hr. 2·0	hr. 2·7	hr. 2·5	hr. 1·8	hr. 2·1	hr. 2·6	hr. 2·1	hr. 1·5	hr. 60·6	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts in millimetres, for periods of sixty minutes between the exact hours, Greenwich Mean Time.

393. Cahirciveen (Valentia Observatory) : H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 9·1 metres + 0·5 metre. **May, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	(p)	(·1)	(p)	(p)	(p)	(p)	(p)	...	...	...	...	...	...	·2	·4	...	...	...	...	·2	...	...	...	...	0·9	1·7
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	·5	...	...	·7	·2	...	...	...	...	...	...	...	...	...	...	...	2·1	·2	...	...	·1	...	·5	...	4·3	1·2
5	·8	·1	·1	·3	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·6	·4	1·8	4·4	4·0
6	5·1	5·0	4·0	3·1	1·0	1·2	·7	·4	·1	...	·7	1·9	1·4	...	...	...	...	...	...	...	...	...	...	...	24·6	9·9
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	·3	·7	2·2	1·7	1·8	1·4	1·5	1·1	·6	1·2	·8	1·2	2·2	1·5	·6	·5	...	·3	19·6	15·2
10	·2	...	...	1·6	·6	1·0	1·2	2·1	·3	1·0	·5	...	...	...	...	...	·1	·3	·5	·9	·1	...	...	...	10·4	9·7
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	(p)	(p)	(p)	(·1)	(p)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·3	4·2	4·7	1·2
13	2·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	·5	·1	·2	3·4	2·5
14	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·1
15	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·3
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	·2	·9	1·5	·5	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·1	1·9
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	·2	·6	·5	·9	·3	·3	...	...	...	...	·6	·4	...	...	...	...	3·8	5·7
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·3	2·0	·7	·1	...	1·0	5·1	3·7
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·9	2·7	1·2	·3	...	...	...	5·1	1·7
24	...	...	...	...	...	...	2·2	·1	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	2·5	1·2
25	·2	·3	...	...	1·0	·2	...	...	1·1	...	·1	·1	·8	2·0	2·5	...	·5	...	...	...	1·2	·9	...	...	10·9	4·9
26	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·2
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·6	·1	0·7	0·3
29	...	·1	·1	...	·3	...	·2	...	...	·3	·3	...	...	...	...	·4	·7	2·9	1·0	·6	2·4	·4	...	...	9·7	5·2
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·9	·1	·1	...	...	·3	...	1·4	1·0
31	...	·5	1·8	...	1·2	...	·4	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4·1	2·7
Sum.	8·9	6·3	6·1	5·9	4·6	3·3	6·6	4·0	3·9	3·6	3·9	4·5	4·0	3·6	3·5	1·6	4·2	6·4	8·4	6·9	6·1	3·1	2·2	7·6	119·2	74·3
Total Duration.	hr. 3·1	hr. 2·1	hr. 2·3	hr. 2·3	hr. 3·7	hr. 3·2	hr. 4·4	hr. 3·0	hr. 2·6	hr. 2·9	hr. 3·5	hr. 3·3	hr. 3·7	hr. 2·7	hr. 2·5	hr. 1·2	hr. 2·2	hr. 3·4	hr. 4·3	hr. 4·9	hr. 4·1	hr. 3·8	hr. 1·8	hr. 3·3	hr. 74·3	

394. Cahirciveen (Valentia Observatory) : H_r = 9·1 metres + 0·5 metre. **June, 1931.**

Day	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration 0–24
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	·2	·1	1·2	1·9	1·9	·8	·3	...	...	...	·1	·4	·2	...	...	1·9	3·7	·6	·8	·2	...	...	...	...	14·3	9·7
3	...	...	...	...	...	·1	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	2·5
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·6	·4	...	...	...	...	...	2·0	0·9
5	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	·1	5·2	·3	·3	1·0	1·1	...	·4	·5	9·0	5·2
6	...	...	...	...	...	...	...	...	·7	...	2·0	1·4	...	...	...	...	...	...	...	...	...	...	...	·2	4·3	1·3
7	...	...	...	...	...	...	...	·7	1·6	2·4	8·0	7·0	1·6	...	...	...	...	...	...	...	...	...	...	...	21·3	4·9
8	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	0·4	0·4
9	·7	·1	·9	·5	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·2	1·1	3·9	4·5
10	·7	·6	2·4	·2	·1	·2	·1	·4	·2	...	...	...	·2	...	...	·1	·3	...	...	...	·1	...	...	...	5·6	5·0
11	...	...	...	...	...	...	...	...	...	...	·1	...	...	·5	·9	1·6	·5	...	...	...	...	...	...	...	3·6	2·9
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	1·6	·6	·4	·5	·4	·5	·8	·9	6·1	8·1
14	3·8	6·0	·6	1·1	·2	·6	...	·1	1·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13·9	4·8
15	...	...	...	...	...	...	·2	...	...	·5	3·5	2·2	4·5	3·0	2·9	·8	·2	1·1	6·0	2·7	2·0	·8	·5	1·1	32·0	13·6
16	·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	...	...	...	·1	...	0·9	0·9
17	...	...	...	...	...	...	·5	...	...	...	...	...	...	...	...	...	...	...	...	·6	...	...	...	...	1·1	0·3
18	·8	...	·9	·7	...	...	...	·4	·3	·3	·8	...	...	...	·1	...	...	·1	·5	3·5	·5	·4	...	·5	9·8	5·0
19	·2	·1	·3	...	...	...	...	...	1·0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·6	0·9
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·6	...	...	...	...	...	0·6	0·3
21	...	...	...	·1	·2	·2	·1	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	·2	·1	...	1·0	3·6
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	·6	·2	·2	·3	·3	...	...	...	...	...	...	...	...	...	...	·4	·5	...	·1	·5	·5	·7	·5	4·8	7·7
24	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·9
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	·8	...	...	...	·1	...	...	...	...	...	...	...	...	·5	1·4	1·0
27	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	1·5
28	...	...	...	·1	·1	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	1·1
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	1·5	1·0	·4	·4	·3	...	·4	...	·2	·5	1·6	·2	·2	...	·6	1·0	·2	...	8·5	5·9
Sum.	7·5	7·5	6·5	4·8	3·0	2·4	3·1	2·7	5·8	3·6	15·6	11·0	6·9	2·5	4·2	5·4	13·5	5·0	9·5	8·6	5·2	3·5	3·0	5·6	147·4	91·9
Total Duration.	hr. 4·7	hr. 2·6	hr. 4·8	hr. 4·3	hr. 4·1	hr. 4·4	hr. 3·5	hr. 2·9	hr. 4·0	hr. 2·3	hr. 3·1	hr. 2·6	hr. 3·2	hr. 1·4	hr. 2·7	hr. 4·0	hr. 5·3	hr. 4·7	hr. 4·5	hr. 4·3	hr. 4·3	hr. 4·9	hr. 4·7	hr. 4·6	hr. 91·9	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts in millimetres, for periods of sixty minutes between the exact hours, Greenwich Mean Time.

395. Cahirciveen (Valentia Observatory) : H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 9·1 metres + 0·5 metre. **July, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·8	...	·2	·8	·6	·7	·4	·2	3·7	5·3
2	·1	·1	·2	·1	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6	1·9
3	·2	...	...	·8	·6	·2	·2	1·2	1·0	·1	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	4·4	4·0
4	...	...	...	...	...	...	...	...	...	·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	0·1
5	...	2·9	3·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6·0	1·6
6	...	...	...	...	...	...	...	...	...	...	·8	...	...	...	...	...	...	...	...	...	...	...	...	...	0·8	0·1
7	...	...	...	...	...	...	...	...	·4	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	0·5	0·3
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·8	...	...	...	...	0·8	0·2
11	...	·6	...	...	...	...	...	...	...	...	...	...	...	...	...	1·4	4·2	1·0	·6	·3	1·3	·2	...	...	9·6	4·9
12	1·0	·6	·1	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·8	1·0
13	...	2·6	·4	...	...	·1	...	...	...	...	...	...	...	...	·6	·9	·5	·5	·3	...	...	...	3·3	·9	10·1	5·3
14	·2	...	...	...	...	...	...	·5	·1	...	...	...	...	...	...	...	...	...	...	·1	·1	...	...	...	1·0	0·9
15	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·1
16	...	...	...	...	...	...	...	...	...	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·1
17	...	...	...	...	...	...	...	...	3·4	·9	·6	...	...	·2	...	...	...	...	...	...	...	...	...	...	5·1	2·1
18	...	...	...	...	...	·5	1·2	...	·3	·1	·6	·4	·2	...	...	...	...	...	...	...	...	...	·3	·3	3·9	5·0
19	...	...	...	...	...	...	·7	·2	·3	·2	·3	...	...	...	...	...	...	...	...	...	...	·1	...	...	1·8	0·8
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	·6	·1	·1	·5	...	...	...	...	...	...	1·4	1·1	·3	·1	·1	...	·3	...	...	...	...	...	4·6	4·6
23	...	...	·2	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·4
24	...	...	...	...	·5	1·3	1·0	1·4	2·1	2·3	2·4	...	...	...	...	...	·4	·2	5·3	·1	...	·2	...	...	**17·2**	**8·4**
25	...	...	...	·6	·4	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	1·2	0·9
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·2	0·4	0·4
27	·1	...	...	...	·1	...	·3	·9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·4	0·7
28	...	...	...	...	·2	·2	·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·8	0·5
29	...	...	3·0	7·7	1·4	...	·3	1·3	·6	1·5	·3	...	·1	·2	...	·1	...	...	...	...	...	...	...	...	16·5	7·2
30	...	...	...	·1	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	·1	...	...	0·9	0·8
31	...	...	...	1·0	·8	·7	·7	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·4	4·2
Sum	1·6	6·8	7·7	**10·4**	4·6	3·5	4·9	5·7	8·3	5·5	5·3	0·4	1·7	1·5	0·9	2·5	6·0	1·7	6·7	2·2	2·5	1·3	4·2	1·7	97·6	61·8
Total Duration.	hr. 1·3	hr. 1·7	hr. 3·6	hr. 3·7	hr. 5·1	hr. 4·4	hr. 4·4	hr. 3·0	hr. **5·4**	hr. 3·3	hr. 3·8	hr. 0·5	hr. 0·9	hr. 1·1	hr. 1·0	hr. 1·4	hr. 2·9	hr. 2·4	hr. 2·7	hr. 1·9	hr. 2·3	hr. 1·7	hr. 2·0	hr. 1·3	hr. 61·8	

396. Cahirciveen (Valentia Observatory) : H_r = 9·1 metres + 0·5 metre. **August, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·6	·5	·9	·4	...	...	·4	3·3	1·0	...	7·1	4·0
8	·2	·4	·6	·5	·5	1·9	·4	·4	·1	·7	·2	·2	·1	...	...	...	...	...	...	...	...	...	...	...	6·2	4·7
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	0·2	0·3
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	...	·2	0·4	0·5
14	·9	·2	1·0	2·5	2·1	·4	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	7·3	4·3
15	...	...	3·0	7·7	3·4	2·0	·3	...	...	...	...	...	·2	...	·8	·3	1·9	3·2	...	·2	·4	·6	3·2	·7	**27·9**	9·4
16	·5	·3	·4	·2	·4	3·8	...	...	·1	·1	...	...	...	...	·5	...	...	...	...	...	...	...	...	...	6·3	3·1
17	·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(⌓)	(⌓)	(⌓)	0·5	0·3
18	(⌓)	(⌓)	(·1)	(⌓)	(⌓)	(⌓)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·9	·4	·2	...	1·6	0·7
19	...	·2	·3	3·6	...	·5	·8	...	·4	2·2	1·4	...	...	...	...	...	...	·2	...	...	·3	·5	·4	·7	11·5	8·0
20	1·2	2·8	2·8	2·2	1·7	2·0	1·6	·5	1·4	·4	·6	·2	...	·3	·3	...	...	...	...	·1	...	...	...	...	18·1	**12·2**
21	...	...	...	·4	...	...	·3	...	...	...	...	...	...	...	·6	...	...	...	...	...	...	...	...	...	1·3	0·5
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	·4	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	0·9
28	...	...	...	...	...	...	...	...	·8	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·9	0·9
29	...	·4	...	·1	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(⌓)	(⌓)	(⌓)	0·7	0·7
30	(⌓)	(·1)	(⌓)	(⌓)	(⌓)	(⌓)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	3·3	4·4	8·2	**17·2**	8·3	10·6	3·4	0·9	2·8	3·9	2·5	0·4	0·3	0·3	2·8	0·8	3·0	4·0	...	0·3	2·0	4·8	4·8	1·6	90·6	50·5
Total Duration.	hr. 3·5	hr. 2·8	hr. 4·1	hr. **4·6**	hr. 3·8	hr. 4·5	hr. 2·4	hr. 1·2	hr. 2·2	hr. 3·1	hr. 2·2	hr. 0·3	hr. 0·2	hr. 0·5	hr. 2·0	hr. 0·9	hr. 1·1	hr. 1·9	hr. ...	hr. 0·4	hr. 1·8	hr. 2·7	hr. 2·0	hr. 2·3	hr. 50·5	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts in millimetres, for periods of sixty minutes between the exact hours, Greenwich Mean Time.

397. Cahirciveen (Valentia Observatory) : H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h, (height of receiving surface above ground) = 9·1 metres + 0·5 metre. **September, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	1·3	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·6	1·6	...	...	...	·6	4·3	2·6
2	...	...	...	...	...	...	...	...	...	...	1·7	·5	...	...	...	...	...	·3	·3	...	...	...	...	...	2·8	2·1
3	...	...	...	...	·1	·8	·2	·5	...	...	...	·3	1·6	1·0	·3	...	...	...	...	...	...	...	...	...	4·8	4·6
4	...	...	...	·5	...	...	...	·1	...	...	...	...	...	...	·4	...	...	...	...	...	...	...	·1	...	1·1	1·1
5	...	·1	·2	...	...	...	·2	...	...	...	...	1·5	...	...	...	...	...	...	...	...	...	...	...	...	2·0	0·7
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	...	·6	·7	·2	...	·7	2·7	3·3
12	·5	1·9	2·0	2·8	2·1	1·4	1·7	1·6	1·4	1·9	1·2	·9	·4	·2	·1	...	...	·1	...	...	·4	·1	...	...	20·7	**14·6**
13	...	...	...	...	...	...	·2	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	1·6
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	1·2	...	...	...	...	...	...	...	·6	2·1	1·5
17	·7	·3	·5	...	·3	...	...	...	...	...	...	...	...	...	...	·3	...	...	...	(≡:)	(≡:)	(≡:)	(·1)	(≡:)	2·2	4·1
18	(≡:)	(≡:)	(≡:)	...	...	...	...	...	·4	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	0·6
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	·2	·6	2·1	·4	·1	·2	2·1	2·3	1·7	2·2	·8	·6	·8	2·9	4·3	**21·3**	11·4
30	·1	...	...	...	·2	·3	·2	...	...	...	...	...	...	·1	...	...	...	...	...	...	·1	...	...	...	1·0	2·8
Sum.	1·3	3·9	2·8	3·3	2·7	2·5	2·5	2·5	1·8	2·4	3·5	5·3	2·4	1·4	1·0	3·6	2·3	2·7	3·1	3·0	1·8	1·1	3·1	**6·2**	66·2	51·0
Total Duration.	hr. 1·6	hr. **3·3**	hr. 2·3	hr. 1·6	hr. 2·5	hr. 2·3	hr. 3·1	hr. 3·0	hr. 1·3	hr. 1·8	hr. 2·6	hr. **3·3**	hr. 2·6	hr. 2·0	hr. 1·2	hr. 2·2	hr. 0·8	hr. 2·0	hr. 2·2	hr. 2·1	hr. 2·1	hr. 1·8	hr. 1·1	hr. 2·2	hr. 51·0	

398. Cahirciveen (Valentia Observatory) : H_r = 9·1 metres + 0·5 metre. **October, 1931.**

Day	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration 0–24
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	·3	·6	·5	...	·2	...	·1	...	...	...	...	...	·2	...	·2	...	...	·1	·2	...	2·4	5·1
2	...	·1	...	...	...	·1	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	1·0
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·6	·6	·2	...	...	·1	...	...	...	1·5	2·5
4	·1	·3	·5	·4	·2	·3	·2	...	·3	...	·6	·9	·2	...	...	...	...	·1	...	...	...	...	...	...	4·1	7·0
5	...	...	·1	·2	...	·2	·4	·3	·2	·3	·1	...	·1	...	...	...	...	...	·2	·1	·3	·1	·2	...	2·8	8·2
6	...	·1	...	...	·1	·9	1·1	1·6	1·4	1·0	·2	...	2·1	...	...	...	...	...	...	...	...	...	...	...	8·5	6·1
7	·4	·5	...	·4	...	·3	·5	·6	·2	...	...	...	...	·1	...	...	...	...	·2	·1	·1	·5	·2	...	4·1	3·3
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	1·8	·4	1·2	1·1	·8	1·4	2·0	2·0	2·3	1·0	...	...	...	...	...	...	...	...	...	(p̲)	(p̲)	(p̲)	**14·0**	**8·9**
10	(p̲)	(p̲)	(p̲)	(·1)	(p̲)	(p̲)	(p̲)	(·2)	(p̲)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	0·2	0·5
12	...	...	...	...	·2	...	...	·7	·2	·4	1·1	4·7	2·1	·2	·1	...	...	...	...	...	...	...	·2	·2	10·1	6·0
13	·3	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6	0·2
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	·2	...	...	...	·1	...	...	...	...	·1	·1	·2	·5	·7	·4	·2	...	...	...	...	...	...	2·5	4·9
24	...	...	...	...	...	...	...	...	....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	(⊔)	(·1)	...	...	...	...	...	...	...	...	...	...	...	...	·3	·3	...	0·7	0·6
27	...	...	·4	·8	...	·8	1·6	...	...	...	·2	·7	·8	·4	...	...	...	...	...	...	...	...	...	...	5·7	3·3
28	...	...	...	...	...	·4	·8	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	...	1·9	0·6
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·3	0·5	1·7
31	·5	1·3	1·6	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·7	3·5
Sum.	1·3	2·6	4·6	2·6	2·0	4·7	6·3	5·0	4·6	3·7	4·6	**7·4**	5·4	0·9	0·6	1·3	1·2	0·5	0·6	0·2	0·5	1·2	1·8	0·5	64·1	63·4
Total Duration.	hr. 1·6	hr. 2·9	hr. 3·8	hr. 3·0	hr. 2·4	hr. 5·2	hr. **6·8**	hr. 4·1	hr. 4·9	hr. 2·5	hr. 3·8	hr. 3·4	hr. 2·9	hr. 1·3	hr. 1·2	hr. 1·8	hr. 2·4	hr. 0·8	hr. 1·3	hr. 1·0	hr. 1·2	hr. 1·7	hr. 2·3	hr. 1·1	hr. 63·4	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts in millimetres, for periods of sixty minutes between the exact hours, Greenwich Mean Time.

399. Cahirciveen (Valentia Observatory) : H_r (height of receiving surface above M.S.L.)=H (height of station above M.S.L.)+h_r (height of receiving surface above ground) = 9·1 metres + 0·5 metre. **November, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	2·7	2·0	1·2	1·1	1·5	·3	·3	·3	2·8	1·6	1·6	1·0	1·7	18·1	10·2
2	4·3	3·5	2·7	·4	·2	1·4	·4	...	·2	2·0	·2	...	...	·3	2·9	·3	·2	3·0	·4	4·3	6·6	...	...	...	33·3	12·6
3	·6	1·3	2·0	2·5	5·3	1·4	1·0	1·2	·9	6·3	8·6	·3	...	...	...	...	...	...	...	1·9	2·4	2·9	1·3	·3	40·2	15·2
4	·9	·3	...	...	...	...	·3	...	...	...	...	...	...	...	...	...	...	·8	...	6·0	·3	...	2·4	...	11·0	2·5
5	·8	...	...	·3	2·9	...	·3	...	...	·1	...	...	...	...	...	...	...	·4	3·0	2·7	1·5	·4	...	...	12·4	4·6
6	...	...	·1	...	...	·1	...	...	...	...	...	...	...	...	·4	...	...	...	...	·3	...	...	...	·6	1·5	0·8
7	...	...	...	...	...	...	...	...	...	...	...	...	·1	·2	·4	1·8	·3	...	·6	1·5	...	...	...	...	4·9	4·4
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	·2	3·7	2·7	3·2	·6	...	...	...	·1	...	...	...	...	...	2·0	·1	...	1·3	...	·3	·2	·4	...	·4	15·2	4·6
10	·5	·1	·2	...	2·1	...	·2	·3	...	...	...	...	...	·4	·1	·5	...	...	·1	·6	...	...	...	...	5·1	2·2
11	·2	...	...	3·5	·1	·6	...	...	...	...	...	...	·4	·1	...	·3	...	·4	...	...	...	...	...	...	5·6	1·9
12	...	...	...	...	...	·2	·2	·3	·2	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	1·1	1·0
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	3·0	3·2	4·0	4·5	3·5	·1	...	...	...	19·3	5·6
14	...	...	...	...	...	...	...	...	...	·2	...	·5	...	...	·8	2·6	...	...	...	...	...	·1	·2	...	4·4	1·8
15	...	(⊔)	(⊔)	(·1)	(⊔)	(⊔)	(⊔)	(·1)	(⊔)	...	...	...	...	...	...	...	...	...	(p̲)	(p̲)	(p̲)	(p̲)	(p̲)	(p̲)	0·2	...
16	(p̲)	(p̲)	(·1)	(p̲)	(p̲)	(p̲)	(p̲)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
17	...	...	...	...	...	...	·9	1·3	2·1	3·4	3·3	4·5	5·2	3·5	4·4	3·0	3·5	1·9	2·1	1·7	5·3	1·8	4·0	3·5	**55·4**	**17·6**
18	1·6	·9	·9	...	...	·6	·3	...	...	...	·2	...	...	·3	...	...	·3	...	...	...	...	1·4	1·0	...	7·5	4·6
19	·1	...	·9	...	...	...	·3	...	...	...	1·3	·3	·8	·8	·4	·2	...	...	...	...	...	...	...	...	5·1	3·0
20	...	...	...	...	...	...	·3	...	...	...	·6	...	...	·3	2·0	·1	...	...	·2	·6	...	...	...	...	4·1	2·1
21	·5	...	·3	...	...	...	...	...	...	·7	...	...	·4	...	...	...	·3	...	...	...	...	...	·1	...	2·3	0·6
22	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·5	...	...	...	·4	2·0	2·0	3·5	5·4	3·4	17·4	5·9
23	...	...	·4	·6	1·2	·9	·7	·9	·5	·3	·3	·7	·9	·8	...	...	...	...	...	...	...	...	...	...	8·2	11·0
24	...	...	...	...	...	...	·4	...	1·7	·8	·2	·3	...	...	...	...	...	...	...	...	...	...	·8	...	4·2	1·5
25	·7	...	...	...	...	...	...	...	·4	...	...	...	·8	1·9	1·1	...	...	...	...	...	...	...	...	...	4·9	3·0
26	1·0	·2	3·4	1·4	2·1	...	·1	1·2	·7	1·6	·9	1·8	·7	...	...	·1	...	...	...	...	·3	...	...	·3	15·8	6·6
27	·1	·3	·1	...	·7	1·2	...	·4	...	...	...	...	...	·2	...	·2	·2	·3	·4	·5	...	...	...	·1	4·7	4·5
28	·2	...	...	...	...	·3	1·3	1·8	...	...	...	...	...	...	...	...	...	...	...	...	1·6	1·6	1·1	...	7·9	5·2
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·1
Sum.	11·7	10·3	14·0	12·0	15·2	6·7	6·7	7·5	6·8	15·4	15·6	11·1	11·3	10·2	17·1	13·7	8·3	12·4	12·0	**28·7**	22·1	13·7	17·3	10·3	310·1	133·1
Total Duration.	hr. 4·9	hr. 5·0	hr. 6·2	hr. 5·7	hr. 4·7	hr. 5·2	hr. 5·4	hr. 4·7	hr. 4·7	hr. 5·8	hr. 4·1	hr. 3·7	hr. 4·8	hr. 5·4	hr. 7·6	hr. 6·4	hr. 5·0	hr. 5·6	hr. 5·7	hr. **9·0**	hr. 7·5	hr. 5·8	hr. 5·7	hr. 4·5	hr. 133·1	

400. Cahirciveen (Valentia Observatory) : H = 9·1 metres + 0·5 metre. **December, 1931.**

Day.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	·2	·5	·2	·6	·2	·1	·4	·9	·3	·4	...	...	...	...	...	...	...	...	·1	...	...	...	3·9	6·1
2	...	...	...	...	...	...	...	·4	1·3	·2	·1	·3	2·4	2·0	·5	...	...	...	...	·1	·2	1·9	2·1	2·0	13·5	7·4
3	1·4	1·6	2·6	·4	·6	...	...	1·1	...	...	...	...	...	...	...	...	...	...	2	1·0	·7	·1	·3	...	10·0	6·3
4	...	...	...	...	...	...	·5	·8	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·4	1·4
5	...	...	...	...	...	...	...	...	...	...	3·6	·5	2·0	·3	·5	1·2	1·4	3·8	1·0	·1	...	...	...	...	14·4	6·0
6	...	...	...	1·0	1·6	·1	·3	...	...	...	...	...	·2	...	...	...	...	...	·4	...	...	...	...	...	3·6	2·6
7	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	2·0	1·9	·9	·6	...	...	...	5·5	3·3
8	...	...	...	...	...	...	...	·3	...	1·1	1·6	...	...	...	...	...	·2	·2	...	...	...	...	...	...	3·4	0·9
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·1	...	0·3	1·0
10	...	·1	...	...	...	·1	...	·1	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	1·9
11	...	·1	·1	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	·1	·1	...	0·5	1·8
12	...	...	·1	·1	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	1·1
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	·3	...	·1	...	...	·2	...	...	...	...	...	...	·1	...	...	...	·4	·2	...	...	...	...	...	...	1·3	2·7
19	...	...	·1	·2	·3	...	...	...	·5	·3	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	1·5	3·0
20	...	...	...	...	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·3
21	...	...	...	...	...	...	...	...	·5	·6	·5	·3	·1	...	...	...	...	·2	...	·1	·4	...	...	·1	2·8	2·3
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	·9	1·5	1·5	2·5	1·6	1·1	3·2	1·6	1·0	...	·2	1·8	1·8	2·4	2·5	1·6	·8	·5	2·5	1·7	1·4	·6	...	**32·7**	**18·0**
24	...	...	...	...	...	...	·6	·2	·4	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	1·6	3·4
25	·2	·2	·6	·2	·5	·7	·3	·2	·3	...	·2	·1	...	...	·9	·3	...	...	...	...	...	...	...	...	4·7	8·3
26	...	...	...	...	·2	·1	·1	·1	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6	2·1
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	·6	·3	·2	...	...	...	...	...	·1	·1	·3	...	...	...	·3	...	...	1·9	2·0
29	·3	...	...	...	...	...	·8	·7	·3	1·8	·1	·4	·1	·5	·4	·3	·6	·4	·5	·3	·1	...	...	...	7·6	4·8
30	·2	...	·2	·9	...	1·1	·9	·3	1·1	...	·2	·2	...	...	1·2	·1	·4	·2	...	·2	·3	...	...	...	7·5	3·0
31	...	(⊔)	(⊔)	(·1)	(⊔)	(⊔)	(⊔)	·6	...	...	...	·1	...	·1	·1	1·0	2·3	5·2	·1	...	...	...	...	...	9·6	3·8
Sum.	2·4	2·9	5·5	4·9	6·2	4·6	4·8	8·8	6·9	6·5	6·7	2·5	6·7	4·8	6·0	5·5	7·0	**13·3**	4·6	5·2	4·1	4·0	3·2	2·2	129·3	93·5
Total Duration.	hr. 2·6	hr. 2·6	hr. 4·4	hr. 5·1	hr. 4·7	hr. 4·5	hr. 5·4	hr. 7·0	hr. **7·8**	hr. 4·0	hr. 3·0	hr. 3·5	hr. 3·6	hr. 3·1	hr. 3·0	hr. 3·6	hr. 4·0	hr. 5·3	hr. 2·8	hr. 3·6	hr. 3·8	hr. 2·5	hr. 2·4	hr. 1·2	hr. 93·5	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

For periods of sixty minutes, between the exact hours of Local Apparent Time.

401. Cahirciveen (Valentia Observatory) : h_s (height of recorder above ground) = 12·8 metres. **January, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	—	—	—	—	...	·9	1·0	1·0	·8	·4	·2	·1	—	—	—	—	—	4·4	57
2	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
3	—	—	—	—	—	...	·8	1·0	1·0	1·0	·7	1·0	...	—	—	—	—	—	5·5	71
4	—	—	—	—	—	...	·5	·3	·8	1·0	·1	...	...	—	—	—	—	—	2·7	35
5	—	—	—	—	—	...	...	...	·2	...	...	...	...	—	—	—	—	—	0·2	3
6	—	—	—	—	—	...	...	·5	...	...	·4	·1	·2	—	—	—	—	—	1·2	15
7	—	—	—	—	—	...	...	...	·3	·1	·5	...	...	—	—	—	—	—	0·9	11
8	—	—	—	—	—	...	·4	...	...	·2	·4	...	...	—	—	—	—	—	1·0	13
9	—	—	—	—	—	...	...	·8	1·0	1·0	·9	·1	...	—	—	—	—	—	3·8	48
10	—	—	—	—	—	...	...	...	...	...	·5	·2	·1	—	—	—	—	—	0·8	10
11	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
12	—	—	—	—	—	...	·3	...	·3	·2	...	·4	·1	—	—	—	—	—	1·3	16
13	—	—	—	—	...	·1	1·0	1·0	1·0	1·0	1·0	1·0	·2	...	—	—	—	—	**6·3**	**78**
14	—	—	—	—	...	...	·6	1·0	·4	·1	...	...	·1	...	—	—	—	—	2·2	27
15	—	—	—	—	...	...	...	...	...	·1	·1	·1	...	...	—	—	—	—	0·3	4
16	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
17	—	—	—	—	...	...	...	·5	·1	·2	...	...	...	...	—	—	—	—	0·8	10
18	—	—	—	—	...	...	...	...	...	...	·1	...	...	...	—	—	—	—	0·1	1
19	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
20	—	—	—	—	...	·1	1·0	·5	·7	1·0	1·0	·5	...	...	—	—	—	—	4·8	57
21	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
22	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
23	—	—	—	—	...	...	...	...	·3	·3	·6	·4	·1	...	—	—	—	—	1·7	20
24	—	—	—	—	...	...	·7	·8	·8	·9	·1	...	...	...	—	—	—	—	3·3	40
25	—	—	—	—	...	·1	·5	·8	·3	·9	1·0	·2	...	...	—	—	—	—	3·8	45
26	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
27	—	—	—	—	...	...	...	...	·1	...	...	...	...	...	—	—	—	—	0·1	1
28	—	—	—	—	...	...	...	...	...	...	...	·7	·1	...	—	—	—	—	0·8	9
29	—	—	—	—	...	...	...	...	·2	·2	·6	·4	...	...	—	—	—	—	1·4	16
30	—	—	—	—	...	·3	·3	...	·1	...	...	...	...	...	—	—	—	—	0·7	8
31	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
Sum.	—	—	—	—	...	0·6	7·0	8·2	8·6	**9·0**	8·4	5·3	1·0	...	—	—	—	—	48·1	—
Mean	—	—	—	—	...	·02	·23	·26	·28	**·29**	·27	·17	·03	...	—	—	—	—	1·56	19

402. Cahirciveen (Valentia Observatory) : h_s = 12·8 metres. **February, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	—	—	—	...	·4	·3	...	·4	·8	...	...	...	...	—	—	—	—	1·9	21
2	—	—	—	—	...	·1	·8	1·0	·3	·9	·7	·4	·8	·1	—	—	—	—	5·1	56
3	—	—	—	—	...	·6	1·0	1·0	·9	·4	·1	...	...	...	—	—	—	—	4·0	44
4	—	—	—	—	...	...	...	...	...	·3	·3	·3	...	...	—	—	—	—	0·9	10
5	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
6	—	—	—	—	...	...	...	...	·2	...	·9	·4	...	...	—	—	—	—	1·5	16
7	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
8	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
9	—	—	—	—	...	·2	·5	·9	·1	...	...	...	...	...	—	—	—	—	1·7	18
10	—	—	—	—	...	...	·6	·6	·8	·5	·9	·9	·2	...	—	—	—	—	4·5	47
11	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
12	—	—	—	—	...	·3	·3	·3	·6	·6	·3	·2	...	...	—	—	—	—	2·6	27
13	—	—	—	—	...	...	...	·3	·2	·1	...	·2	...	...	—	—	—	—	0·8	8
14	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
15	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
16	—	—	—	—	...	...	·1	·7	·8	·6	·7	·3	·1	...	—	—	—	—	3·3	33
17	—	—	—	—	...	...	·7	·8	·5	·7	·9	·3	·9	·3	—	—	—	—	5·1	51
18	—	—	—	—	·1	·9	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·2	—	—	—	—	**8·2**	**81**
19	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
20	—	—	—	...	...	...	·4	·3	...	·7	1·0	·7	·6	...	...	—	—	—	3·7	36
21	—	—	—	...	·1	·5	·7	·9	·9	·7	·8	·5	·7	·4	...	—	—	—	6·2	61
22	—	—	—	...	·2	·6	·7	·6	·9	·3	·1	·8	·8	·5	...	—	—	—	5·5	53
23	—	—	—	...	...	...	·1	...	·1	·2	·2	...	·2	...	...	—	—	—	0·8	8
24	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
25	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
26	—	—	—	...	...	...	...	...	...	...	...	...	1·0	·1	...	—	—	—	1·1	11
27	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
28	—	—	—	...	...	...	·4	·7	·2	...	·2	...	·1	·2	...	—	—	—	1·8	17
Sum.	—	—	—	...	0·4	3·6	7·6	**9·1**	7·9	7·8	8·1	6·0	6·4	1·8	...	—	—	—	58·7	—
Mean	—	—	—	...	·01	·13	·27	**·33**	·28	·28	·29	·21	·23	·06	...	—	—	—	2·10	21
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.

For periods of sixty minutes, between the exact hours of Local Apparent Time.

403. Cahirciveen (Valentia Observatory) : h_s (height of recorder above ground) = 12·8 metres. **March, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	—	—	...	·3	·6	·5	·8	·6	·7	1·0	...	...	...	...	—	—	—	4·5	42
2	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
3	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
4	—	—	—	...	...	...	...	...	·1	...	...	...	...	...	...	—	—	—	0·1	1
5	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
6	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
7	—	—	—	...	...	·9	1·0	1·0	1·0	1·0	1·0	·8	·1	·3	...	—	—	—	7·1	**63**
8	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
9	—	—	—	...	...	·4	1·0	1·0	1·0	1·0	·9	·7	·3	·4	...	—	—	—	6·7	59
10	—	—	—	...	·6	·7	...	·3	·1	1·0	1·0	1·0	1·0	1·0	...	—	—	—	6·7	59
11	—	—	—	...	·3	...	·2	·6	·7	1·0	1·0	1·0	1·0	·6	·3	—	—	—	6·7	59
12	—	—	—	...	·5	·6	·5	·9	·8	·1	·8	·4	...	...	...	—	—	—	4·6	40
13	—	—	—	...	...	...	·4	·6	1·0	1·0	·8	1·0	1·0	·7	·3	—	—	—	6·8	59
14	—	—	—	...	...	·1	·3	·6	·8	·4	·5	1·0	1·0	1·0	·3	—	—	—	6·0	51
15	—	—	—	...	...	·1	...	·1	·3	·4	·8	·1	·1	...	...	—	—	—	1·9	16
16	—	—	—	...	·8	1·0	1·0	1·0	1·0	·2	·4	·1	...	...	...	—	—	—	5·5	47
17	—	—	—	...	·2	·4	...	...	·1	·5	·8	·2	·5	...	...	—	—	—	2·7	23
18	—	—	—	...	...	...	·2	...	...	...	·2	·1	...	...	...	—	—	—	0·5	4
19	—	—	—	...	...	...	...	...	...	·5	...	...	...	...	...	—	—	—	0·5	4
20	—	—	—	...	·2	1·0	·9	·1	·2	...	...	...	...	...	...	—	—	—	2·4	20
21	—	—	...	...	...	·2	·3	1·0	1·0	1·0	1·0	·3	·2	...	...	...	—	—	5·0	41
22	—	—	...	·2	1·0	1·0	1·0	·7	·2	·1	·7	1·0	·4	...	...	...	—	—	6·3	52
23	—	—	...	...	...	...	·1	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·5	...	—	—	**7·6**	62
24	—	—	...	...	...	·1	...	·7	1·0	1·0	1·0	·6	·3	·1	...	...	—	—	4·8	39
25	—	—	...	...	...	...	...	...	...	·9	·4	...	...	...	...	...	—	—	1·3	11
26	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...
27	—	—	...	...	·8	1·0	·9	...	...	...	...	...	...	...	...	...	—	—	2·7	22
28	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...
29	—	—	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	—	—	0·1	1
30	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...
31	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...
Sum.	—	—	...	0·2	4·7	8·1	8·3	10·4	10·9	11·8	**13·4**	9·3	6·9	5·1	**1·4**	...	—	—	90·5	—
Mean	—	—	...	·01	·15	·26	·27	·34	·35	·38	**·43**	·30	·22	·16	·05	...	—	—	2·92	25

404. Cahirciveen (Valentia Observatory) : h_s = 12·8 metres. **April, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	—	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	—	—	0·1	1
2	—	—	...	...	...	·1	...	...	·6	·7	·8	·6	·3	·1	·4	...	—	—	3·6	28
3	—	—	...	...	·4	·2	...	·4	·4	·9	·6	·8	·8	1·0	·3	...	—	—	5·8	45
4	—	—	...	·5	·2	·8	·9	1·0	1·0	1·0	1·0	1·0	1·0	1·0	...	...	—	—	9·4	72
5	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...
6	—	—	...	...	...	·2	·3	·9	1·0	·2	...	...	·3	...	...	...	—	—	2·9	22
7	—	—	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	—	—	0·1	1
8	—	—	...	...	...	...	·4	·2	...	...	·4	...	...	·1	·1	...	—	—	1·2	9
9	—	—	...	...	·4	·4	·2	...	·3	·9	·8	1·0	1·0	·4	·3	·2	—	—	5·9	44
10	—	—	...	·2	·7	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	...	—	—	10·9	81
11	—	—	...	·3	...	...	...	...	...	...	...	...	·3	...	...	...	—	—	0·6	4
12	—	—	...	·2	·5	·9	·7	·9	·9	·5	·4	·7	·9	1·0	·9	...	—	—	8·5	63
13	—	—	...	·9	1·0	1·0	·9	·1	·2	·3	·6	...	...	...	...	...	—	—	5·0	37
14	—	—	...	...	...	·2	·1	·3	·5	·6	1·0	1·0	·2	·2	...	...	—	—	4·1	30
15	—	—	...	...	·2	·3	·8	·6	1·0	·6	·7	1·0	1·0	·7	·8	...	—	—	7·7	56
16	—	—	...	...	...	...	·3	·3	...	...	·1	...	...	...	...	...	—	—	0·7	5
17	—	—	...	...	...	...	...	·1	·2	1·0	·6	·7	·8	·8	·5	...	—	—	4·7	34
18	—	—	...	·4	·8	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·4	—	—	**11·6**	**83**
19	—	—	...	...	·2	·5	1·0	1·0	·8	·6	·9	·6	·2	...	...	...	—	—	5·8	41
20	—	...	·3	·4	·3	1·0	·8	·9	·8	·8	·4	·2	·9	·9	·4	...	...	—	8·1	57
21	—	...	·6	1·0	·3	...	...	·3	·3	1·0	1·0	1·0	1·0	1·0	1·0	·5	...	—	9·0	64
22	—	...	·3	·3	·7	·3	·4	·3	...	...	·4	·6	·9	1·0	·5	...	...	—	5·7	40
23	—	...	·1	·2	...	...	...	...	...	...	·1	·1	·5	·1	·2	...	...	—	1·3	9
24	—	...	...	...	...	·2	...	...	...	...	·9	·9	·3	·5	·1	...	...	—	2·9	20
25	—	...	...	...	...	·1	·7	·5	·3	·3	1·0	·7	·8	1·0	·9	·5	...	—	6·8	47
26	—	...	...	...	·5	...	...	·5	·4	·2	...	·3	·8	·8	1·0	·2	...	—	4·7	32
27	—	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	—	0·1	1
28	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...
29	—	...	...	...	...	...	...	...	...	...	...	·2	...	...	·1	...	...	—	0·3	2
30	—	...	...	...	...	...	·1	·6	·8	·9	·5	·5	1·0	·8	·7	·5	...	—	6·4	43
Sum.	—	...	1·3	4·4	6·3	8·2	9·6	10·9	11·5	12·7	14·2	13·9	**15·0**	13·4	10·2	2·3	...	—	133·9	32
Mean	—	...	·04	·15	·21	·27	·32	·36	·38	·42	·47	·46	**·50**	·45	·34	·08	...	—	4·46	
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.

For periods of sixty minutes, between the exact hours of Local Apparent Time.

405. Cahirciveen (Valentia Observatory) : h_s (height of recorder above ground) = 12·8 metres. **May, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	...	·2	·6	·4	1·0	1·0	·7	·1	...	...	...	...	...	...	...	...	—	4·0	27
2	—	...	1·0	1·0	1·0	1·0	·7	·3	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·7	...	—	12·7	86
3	—	...	·7	1·0	·7	·4	·6	·6	1·0	·7	·9	1·0	1·0	·9	·4	·5	...	—	10·4	70
4	—	...	·1	·5	·2	·5	·6	·6	·8	1·0	1·0	1·0	·4	·7	·9	·4	...	—	8·7	58
5	—	...	·1	...	·4	...	·1	...	...	...	...	...	...	...	...	...	...	—	0·6	4
6	—	...	...	...	...	·5	·1	...	...	·1	...	·6	·7	·3	...	...	...	—	2·3	15
7	—	...	·2	·1	...	...	·2	...	·1	·1	...	...	...	·6	·9	1·0	·2	—	3·4	22
8	—	·2	1·0	1·0	1·0	1·0	1·0	1·0	·8	·5	·5	·3	·9	·4	...	...	...	—	9·6	63
9	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...
10	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...
11	—	...	·5	·9	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·4	...	—	12·8	83
12	—	...	...	...	·4	·9	·9	·7	...	...	...	...	...	...	...	...	...	—	2·9	19
13	—	...	...	...	·6	·7	·8	·5	·2	·3	·9	1·0	1·0	·5	...	...	...	—	6·5	42
14	—	...	...	...	·4	·2	·5	·9	1·0	1·0	·9	·5	·6	·7	·5	...	...	—	7·2	46
15	—	...	...	·2	·3	·6	·3	·6	·3	1·0	·1	·1	·5	1·0	·8	·3	...	—	6·1	39
16	—	...	·3	...	·2	·3	·1	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·5	·2	—	9·6	61
17	—	·1	1·0	1·0	1·0	·9	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·3	—	**14·3**	**91**
18	—	·1	·5	1·0	1·0	1·0	1·0	·5	·6	·8	1·0	1·0	1·0	·8	1·0	·3	...	—	11·6	74
19	—	...	...	...	...	·1	·2	·8	·9	·8	·8	·5	1·0	·9	·9	·6	·4	—	7·9	50
20	—	...	·3	·2	...	·2	·4	·7	·8	·7	·8	·3	...	...	...	...	...	—	4·4	28
21	—	...	...	...	...	...	...	...	...	...	...	...	...	·1	·1	...	...	—	0·2	1
22	—	·1	·9	1·0	1·0	·8	·8	1·0	1·0	·6	·3	·1	...	...	...	...	...	—	7·6	48
23	—	...	·1	·3	·4	·9	·9	·7	·9	·8	·3	·8	·3	...	...	...	...	—	6·4	40
24	—	...	...	...	·4	·6	·4	·2	·3	·5	·2	·4	·2	·1	·2	...	...	—	3·5	22
25	—	...	...	·1	·3	·1	...	·1	...	...	...	...	·2	·4	·1	...	...	—	1·3	8
26	—	...	...	...	·2	·7	·3	·6	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·4	—	10·2	63
27	...	...	...	...	·1	·3	·9	·9	·8	·5	...	·7	·8	·9	·6	...	·2	...	6·7	42
28	...	...	...	...	...	...	...	...	...	...	...	...	·1	1·0	1·0	·9	·2	...	3·2	20
29	...	...	...	...	...	...	·3	·8	·1	1·0	·7	·1	...	...	...	...	...	...	3·0	19
30	...	...	...	·2	·1	...	·1	·2	1·0	·4	1·0	·4	...	...	...	...	...	...	3·4	21
31	...	...	...	·2	·2	·3	·7	·6	·6	1·0	·5	...	1·0	·9	·7	1·0	·5	...	8·2	50
Sum.	...	0·5	6·9	9·3	11·3	14·0	14·9	16·0	16·3	**16·8**	14·9	13·8	14·7	15·2	13·1	8·6	2·4	...	188·7	—
Mean	...	·02	·22	·30	·36	·45	·48	·52	·53	**·54**	·48	·45	·47	·49	·42	·28	·08	...	6·09	39

406. Cahirciveen (Valentia Observatory) : h_s = 12·8 metres. **June, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	...	...	...	...	...	...	...	...	...	·5	1·0	1·0	1·0	·6	·5	...	...	...	4·6	28
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	·8	·9	·8	1·0	1·0	1·0	1·0	1·0	·9	·6	...	9·0	55
4	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	1
5	...	...	...	...	...	·2	·3	·1	...	...	...	...	...	...	...	...	...	...	0·6	4
6	...	...	...	·3	...	...	...	·1	·9	·1	·7	·9	·1	...	·1	·1	·1	...	3·4	21
7	...	...	...	...	...	...	...	...	...	·2	·3	·1	...	·4	·8	·8	...	...	2·6	16
8	...	...	...	·3	·4	...	·9	·6	1·0	·9	·4	·5	·5	1·0	·1	...	·1	...	6·7	41
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	0·1	1
11	...	·7	·9	·3	·3	·2	...	...	...	...	...	...	...	...	...	...	...	...	2·4	15
12	...	...	·5	·2	·7	1·0	·9	1·0	1·0	1·0	1·0	·8	1·0	·6	·9	1·0	·3	...	11·9	72
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	·1	...	...	...	...	·6	·7	·7	·7	...	...	2·8	17
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	·2	·9	·7	·9	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·9	·9	·6	1·0	·4	...	**13·5**	**81**
17	...	·2	·2	·9	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·6	·9	...	·2	...	...	...	10·0	60
18	...	...	...	...	...	...	...	...	...	·1	·3	...	·3	·4	·1	...	...	...	1·2	7
19	...	...	...	·4	·1	...	·5	1·0	·2	·1	·5	·7	·1	·7	·3	...	...	...	4·6	28
20	...	...	...	...	...	·1	...	...	·2	·1	...	...	...	...	...	...	...	...	0·4	2
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	·5	·1	·3	·1	·8	·8	·9	·4	·3	·3	...	·2	...	...	4·7	28
25	...	...	...	...	·3	·2	...	...	...	...	...	...	...	...	...	...	...	...	0·5	3
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	·2	·1	·1	...	...	...	...	...	...	...	...	...	0·4	2
28	...	...	...	...	...	...	...	...	...	·4	1·0	1·0	1·0	1·0	1·0	·2	...	...	5·6	34
29	...	...	...	...	...	...	...	·2	·8	1·0	1·0	·8	1·0	1·0	1·0	·8	·4	...	8·0	48
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	...	1·1	2·5	3·2	4·2	3·8	5·1	6·1	7·9	8·0	**10·1**	8·8	8·7	8·7	7·3	5·7	1·9	...	93·1	—
Mean	...	·04	·08	·11	·14	·13	·17	·20	·26	·27	**·34**	·29	·29	·29	·24	·19	·06	...	3·10	19
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.

For periods of sixty minutes, between the exact hours of Local Apparent Time.

407. Cahirciveen (Valentia Observatory) : h_s (height of recorder above ground) = 12·8 metres. **July, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	...	...	...	...	...	...	·2	·2	·1	·1	...	...	...	...	...	...	...	...	0·6	4
2	...	...	...	...	...	...	...	...	·4	·2	...	...	...	·2	...	...	...	...	0·8	5
3	...	...	...	...	...	...	...	...	...	...	·8	·4	·1	...	...	·3	...	...	1·6	10
4	...	·4	·9	1·0	1·0	·9	·8	1·0	1·0	1·0	1·0	1·0	·7	1·0	·6	·7	...	...	13·0	78
5	...	...	·1	·8	·9	·1	·4	1·0	1·0	1·0	1·0	1·0	·7	·8	·5	·8	·2	...	10·3	62
6	...	·7	·9	·6	·7	·9	·5	·4	·9	1·0	1·0	1·0	1·0	·9	1·0	1·0	·6	...	**13·1**	**79**
7	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	0·1	1
8	...	...	...	...	...	·2	·8	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·8	...	10·8	66
9	...	·7	1·0	1·0	1·0	1·0	1·0	·4	·9	·6	·7	...	·4	...	...	...	...	...	8·7	53
10	...	...	...	·2	·2	·8	·2	...	·6	·6	1·0	1·0	1·0	·9	·7	...	...	...	7·2	44
11	...	·2	1·0	1·0	1·0	·9	1·0	1·0	·7	·1	...	...	...	...	...	...	...	...	6·9	42
12	...	...	...	·5	·2	1·0	·9	1·0	1·0	1·0	1·0	·9	1·0	1·0	·7	·1	...	...	10·3	63
13	...	...	·1	·8	·8	·3	·5	·3	...	...	...	...	...	...	...	...	...	...	2·8	17
14	...	...	...	...	...	...	...	·1	·6	·7	1·0	1·0	·9	1·0	1·0	·5	·2	...	7·0	43
15	...	·3	·4	1·0	1·0	1·0	·9	1·0	1·0	1·0	1·0	·9	·8	1·0	·6	...	...	...	11·9	73
16	...	...	·2	·6	...	...	...	...	...	...	...	...	·5	·7	...	...	...	...	2·0	12
17	...	...	...	...	...	...	...	...	...	...	·1	·1	·1	...	...	...	...	...	0·3	2
18	—	...	...	...	...	...	...	...	...	...	...	...	·1	·3	...	·1	...	—	0·5	3
19	—	...	·1	·1	·1	...	...	·1	·8	·9	·9	·8	·1	·6	·3	·1	·2	—	5·1	32
20	—	...	...	...	·5	·1	...	·6	·5	·2	·8	·5	·8	1·0	1·0	1·0	·5	—	7·5	47
21	—	...	...	...	...	...	·1	...	...	...	...	·2	·3	1·0	...	...	...	—	1·6	10
22	—	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	—	0·2	1
23	—	...	...	...	...	·2	·4	1·0	·9	·9	·5	1·0	·8	...	...	...	...	—	5·7	36
24	—	...	...	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	—	0·2	1
25	—	...	...	...	...	...	...	·7	·7	...	·8	1·0	·1	·2	...	...	...	—	3·5	22
26	—	...	...	·1	·2	·4	·2	·2	·1	·2	...	...	...	...	...	...	...	—	1·4	9
27	—	...	...	·2	·2	·8	1·0	·4	...	·2	·8	·7	·7	·7	·2	·2	...	—	6·1	39
28	—	...	...	...	...	...	·4	·8	·8	·5	...	...	...	...	...	...	...	—	2·5	16
29	—	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	—	0·1	1
30	—	...	...	...	...	·6	...	·6	·3	·4	...	...	...	...	...	...	...	—	1·9	12
31	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·7	·1	—	0·8	5
Sum.	...	2·3	4·7	7·9	7·8	9·2	9·3	11·8	13·3	11·8	**13·4**	12·6	11·1	12·5	7·7	6·5	2·6	...	144·5	—
Mean	...	·07	·15	·25	·25	·30	·30	·38	·43	·38	**·43**	·41	·36	·40	·25	·21	·08	...	4·66	29

408. Cahirciveen (Valentia Observatory) : h_s = 12·8 metres. **August, 1931.**

	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	·2	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·9	1·0	·9	·8	1·0	·8	...	—	**13·6**	88
2	—	...	·2	·5	·8	·9	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·4	·2	—	12·0	78
3	—	...	·8	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·9	·7	·1	—	13·5	88
4	—	·4	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·7	...	·2	·4	...	—	11·7	76
5	—	...	·8	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·8	...	—	**13·6**	89
6	—	...	...	...	·3	·5	·9	1·0	·9	·7	·6	·5	·6	·4	·1	...	...	—	6·5	43
7	—	...	...	·1	·2	...	·2	...	·2	...	...	...	...	...	...	...	...	—	0·7	5
8	—	...	...	...	...	...	...	...	...	(·2)	(·3)	(·2)	(·2)	(·3)	(·1)	(·2)	...	—	(1·5)*	(10)
9	—	...	...	...	...	...	...	·1	·1	·1	·2	...	...	...	...	...	...	—	0·5	3
10	—	...	...	...	...	...	...	·1	...	·2	·1	·5	·2	·2	·1	...	...	—	1·4	9
11	—	...	...	...	·3	1·0	1·0	·8	·6	·2	·9	...	·1	...	...	...	...	—	4·9	33
12	—	...	...	·1	·5	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·7	1·0	·6	...	—	10·9	74
13	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...
14	—	...	...	...	...	...	...	·7	1·0	1·0	1·0	1·0	1·0	1·0	·9	...	...	—	7·6	52
15	—	...	...	...	...	...	·1	·4	·3	·5	...	...	...	...	...	...	...	—	1·3	9
16	—	...	...	...	...	...	·7	·2	·2	·1	·1	·2	1·0	·8	·3	...	...	—	3·6	25
17	—	...	·2	·7	·7	1·0	1·0	1·0	1·0	·8	·8	1·0	1·0	1·0	1·0	·3	...	—	11·5	79
18	—	...	·1	·4	·4	·7	·7	·8	...	·4	·9	·5	·3	...	...	...	...	—	5·2	36
19	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...
20	—	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	·1	...	—	0·3	2
21	—	...	...	·3	·9	·5	·9	1·0	·8	·9	·5	·4	·7	·7	·3	·1	...	—	8·0	56
22	—	...	·6	·7	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·7	...	—	13·0	91
23	—	...	·7	1·0	1·0	1·0	·9	·9	·7	·3	·4	·2	·1	·3	·9	·3	...	—	8·7	61
24	—	—	·2	·9	1·0	1·0	1·0	1·0	1·0	1·0	·9	·9	1·0	1·0	1·0	...	—	—	11·9	84
25	—	—	·5	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·7	—	—	13·2	94
26	—	—	·2	·9	1·0	1·0	1·0	·3	...	...	...	...	...	...	...	...	—	—	4·4	31
27	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...
28	—	—	...	...	...	...	...	...	...	·4	·6	·4	...	·1	...	...	—	—	1·5	11
29	—	—	...	...	·6	1·0	·7	·9	·2	·8	·4	...	·6	...	...	...	—	—	5·2	38
30	—	—	...	...	...	...	...	...	·2	...	·1	·7	·7	·4	·2	...	—	—	2·3	17
31	—	—	...	...	·5	1·0	·6	1·0	1·0	·9	·9	1·0	·8	·3	...	...	—	—	8·0	59
Sum.	—	0·6	6·3	10·6	14·2	16·6	17·7	**18·2**	16·2	16·5	16·6	15·5	15·9	13·2	12·0	6·1	0·3	—	196·5	—
Mean	—	·02	·20	·34	·46	·54	·57	**·59**	·52	·53	·54	·50	·51	·43	·39	·20	·01	—	6·34	43
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.

*Record lost owing to sphere having been displaced.

For periods of sixty minutes, between the exact hours of Local Apparent Time.

409. Cahirciveen (Valentia Observatory): h_s (height of recorder above ground) $=12·8$ metres. **September, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	—	...	·2	·1	·5	...	·3	1·0	·9	·1	·1	·5	...	...	...	—	—	3·7	28
2	—	—	...	·1	1·0	·6	·1	...	...	...	·2	·6	·1	...	...	...	—	—	2·7	20
3	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...
4	—	—	...	...	...	·9	·8	·6	·9	1·0	·8	1·0	1·0	1·0	·5	...	—	—	8·5	63
5	—	—	...	·3	·9	·8	1·0	·5	1·0	1·0	1·0	1·0	·8	·8	·8	...	—	—	9·9	74
6	—	—	...	·8	1·0	1·0	1·0	·9	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·2	—	—	**11·9**	**90**
7	—	—	...	·8	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·8	·1	—	—	11·7	89
8	—	—	...	...	...	·3	·6	·2	·2	·4	·2	...	·1	·1	·7	...	—	—	2·8	21
9	—	—	...	...	...	·2	·8	·1	...	...	...	...	...	...	...	...	—	—	1·1	8
10	—	—	...	·4	1·0	1·0	1·0	·8	·8	·9	1·0	1·0	1·0	1·0	·6	...	—	—	10·5	81
11	—	—	...	·1	·5	·3	·1	...	...	...	...	...	...	...	...	...	—	—	1·0	8
12	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...
13	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...
14	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...
15	—	—	...	...	...	·4	...	...	...	...	·1	·8	1·0	1·0	·1	...	—	—	3·4	27
16	—	—	...	...	...	·2	·1	...	·2	...	...	...	...	...	...	...	—	—	0·5	4
17	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...
18	—	—	...	...	...	...	...	...	·3	...	...	...	...	...	...	...	—	—	0·3	2
19	—	—	...	...	·5	·6	...	...	·1	...	...	...	·7	1·0	·6	...	—	—	3·5	28
20	—	—	...	·3	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·7	...	—	—	11·0	89
21	—	—	...	·1	·8	·4	·6	·7	1·0	1·0	·9	·7	1·0	1·0	·3	...	—	—	8·5	69
22	—	—	...	·2	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·5	...	—	—	10·7	88
23	—	—	...	·2	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·5	...	—	—	10·7	88
24	—	—	—	·2	1·0	1·0	1·0	·2	·1	...	...	...	...	...	...	—	—	—	3·5	29
25	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
26	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
27	—	—	—	...	...	...	...	...	·3	·4	·5	·4	·8	·2	...	—	—	—	2·6	22
28	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
29	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
30	—	—	—	...	·8	·9	1·0	1·0	·9	·9	·8	·9	·9	·5	...	—	—	—	8·6	74
Sum.	—	—	...	3·7	11·6	**13·1**	12·1	9·3	11·8	11·5	10·6	11·5	12·9	11·6	7·1	0·3	—	—	127·1	—
Mean	—	—	...	·12	·39	**·44**	·40	·31	·39	·38	·35	·38	·43	·39	·24	·01	—	—	4·24	34

410. Cahirciveen (Valentia Observatory): $h_s = 12·8$ metres. **October, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
2	—	—	—	...	...	...	·1	·6	·8	·9	·8	·7	·7	·5	...	—	—	—	5·1	44
3	—	—	—	...	·6	·5	·6	·8	·9	...	...	...	...	...	...	—	—	—	3·4	30
4	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
5	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
6	—	—	—	...	...	...	...	...	...	...	...	...	...	·2	...	—	—	—	0·2	2
7	—	—	—	...	·1	·7	·6	1·0	·9	·8	·6	1·0	·9	·8	...	—	—	—	7·4	66
8	—	—	—	...	...	...	...	...	...	...	·3	·1	·1	...	...	—	—	—	0·5	4
9	—	—	—	...	...	...	...	...	...	...	...	·1	·4	·5	...	—	—	—	1·0	9
10	—	—	—	...	·5	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·9	·9	...	—	—	—	**9·3**	85
11	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
12	—	—	—	...	...	...	...	...	...	...	...	...	·7	·5	...	—	—	—	1·2	11
13	—	—	—	...	·4	1·0	·8	1·0	1·0	·8	1·0	1·0	·9	...	...	—	—	—	7·9	73
14	—	—	—	...	·6	1·0	1·0	1·0	1·0	1·0	·8	·2	·3	·5	...	—	—	—	7·4	69
15	—	—	—	...	·3	·5	·5	·7	1·0	·4	·2	·2	·9	·2	...	—	—	—	4·9	46
16	—	—	—	...	·3	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·8	...	—	—	—	9·1	86
17	—	—	—	...	...	...	·6	·6	...	...	...	...	...	...	...	—	—	—	1·2	11
18	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
19	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
20	—	—	—	...	...	·1	·5	·5	...	...	...	...	...	...	...	—	—	—	1·1	11
21	—	—	—	...	...	...	...	...	·6	1·0	1·0	·9	·5	·2	...	—	—	—	4·2	41
22	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
23	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...
24	—	—	—	...	·2	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·3	...	—	—	—	8·5	84
25	—	—	—	—	·2	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·7	—	—	—	—	8·9	**89**
26	—	—	—	—	·1	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·6	·1	—	—	—	—	7·8	78
27	—	—	—	—	...	...	...	...	...	...	·1	...	...	...	—	—	—	—	0·1	1
28	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
29	—	—	—	—	...	·2	·4	1·0	1·0	1·0	·8	·3	...	...	—	—	—	—	4·7	48
30	—	—	—	—	...	...	·7	·9	1·0	1·0	1·0	1·0	1·0	·1	—	—	—	—	6·7	69
31	—	—	—	—	...	...	...	·4	·2	·1	...	·3	·1	...	—	—	—	—	1·1	11
Sum.	—	—	—	...	3·3	9·0	10·8	**13·5**	13·4	12·0	11·6	10·8	11·0	6·3	...	—	—	—	101·7	—
Mean	—	—	—	...	·11	·29	·35	**·44**	·43	·39	·37	·35	·35	·20	...	—	—	—	3·28	31
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.

For periods of sixty minutes, between the exact hours of Local Apparent Time.

411. Cahirciveen (Valentia Observatory): h_s (height of recorder above ground) = 12·8 metres. **November, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
2	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
3	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
4	—	—	—	—	...	·4	·2	·5	·2	1·0	·7	...	...	...	—	—	—	—	3·0	32
5	—	—	—	—	...	...	·2	...	...	...	...	...	...	...	—	—	—	—	0·2	2
6	—	—	—	—	...	·6	·8	·8	·2	...	...	...	...	...	—	—	—	—	2·4	26
7	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
8	—	—	—	—	...	·9	1·0	1·0	1·0	1·0	1·0	1·0	·6	...	—	—	—	—	7·5	81
9	—	—	—	—	...	·1	1·0	·7	·4	·7	·4	...	...	...	—	—	—	—	3·3	36
10	—	—	—	—	...	·1	·3	·5	·7	...	...	·1	...	...	—	—	—	—	1·7	18
11	—	—	—	—	...	...	...	·3	·5	·2	·9	·6	·2	...	—	—	—	—	2·7	30
12	—	—	—	—	...	·2	·9	·2	·9	·4	·7	·9	·3	...	—	—	—	—	4·5	50
13	—	—	—	—	...	...	...	·1	...	...	...	...	...	...	—	—	—	—	0·1	1
14	—	—	—	—	...	·4	1·0	·9	·2	...	...	...	...	...	—	—	—	—	2·5	28
15	—	—	—	—	...	·4	·8	1·0	·2	...	·4	...	·2	...	—	—	—	—	3·0	34
16	—	—	—	—	...	...	...	·3	·1	...	...	...	...	...	—	—	—	—	0·4	5
17	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
18	—	—	—	—	...	...	...	...	·1	1·0	·7	·8	·3	...	—	—	—	—	2·9	34
19	—		—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
20	—	—	—	—	...	...	...	·6	·2	...	...	...	...	...	—	—	—	—	0·8	9
21	—	—	—	—	...	...	·2	·2	·3	·7	1·0	·6	·2	...	—	—	—	—	3·2	38
22	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
23	—	—	—	—	...	...	...	...	...	...	...	·1	...	...	—	—	—	—	0·1	1
24	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
25	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
26	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
27	—	—	—	—	...	...	·2	...	...	...	...	...	...	...	—	—	—	—	0·2	2
28	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...
29	—	—	—	—	...	...	·6	·8	1·0	1·0	1·0	1·0	·2	...	—	—	—	—	5·6	69
30	—	—	—	—	—	...	·9	1·0	·8	·9	·9	1·0	·1	—	—	—	—	—	5·6	69
Sum.	—	—	—	—	...	3·1	8·1	8·9	6·8	6·9	7·7	6·1	2·1	...	—	—	—	—	49·7	—
Mean	—	—	—	—	...	·10	·27	·30	·23	·23	·26	·20	·07	...	—	—	—	—	1·66	19

412. Cahirciveen (Valentia Observatory) h_s = 12·8 metres. **December and Year, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%
1	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
2	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
3	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
4	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
5	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
6	—	—	—	—	—	...	...	·1	·6	·8	·7	·7	·1	—	—	—	—	—	3·0	38
7	—	—	—	—	—	...	...	...	·1	·2	·1	·1	...	—	—	—	—	—	0·5	6
8	—	—	—	—	—	...	...	·3	·9	·9	·9	·3	...	—	—	—	—	—	3·3	42
9	—	—	—	—	—	...	·5	·5	·6	·3	·3	·1	...	—	—	—	—	—	2·3	29
10	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
11	—	—	—	—	—	...	...	...	·5	·5	·4	·1	·1	—	—	—	—	—	1·6	21
12	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
13	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
14	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
15	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
16	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
17	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
18	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
19	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
20	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
21	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
22	—	—	—	—	—	...	...	...	·6	...	...	...	...	—	—	—	—	—	0·6	8
23	—	—	—	—	—	...	...	...	...	...	...	...	—	—	—	—	—	—	...	...
24	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
25	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
26	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
27	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
28	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...
29	—	—	—	—	—	...	·2	·2	·1	·1	·1	·1	...	—	—	—	—	—	0·8	10
30	—	—	—	—	—	...	·2	·4	·1	·3	·1	·8	...	—	—	—	—	—	1·9	25
31	—	—	—	—	—	...	·3	...	...	...	...	...	...	—	—	—	—	—	0·3	4
Sum.	—	—	—	—	—	...	1·2	1·5	3·5	3·1	2·6	2·2	0·2	—	—	—	—	—	14·3	—
Mean	—	—	—	—	—	...	·04	·05	·11	·10	·08	·07	·01	—	—	—	—	—	0·46	6
Annual Total	...	4·5	21·7	39·3	63·8	89·3	111·7	123·9	128·1	127·9	131·6	115·8	105·9	87·8	58·8	29·5	7·2	...	1246·8	—
Annual Mean	...	·01	·06	·11	·17	·24	·31	·34	·35	·35	·36	·32	·29	·24	·16	·08	·02	...	3·42	28
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.

Direction expressed in degrees from North ($E = 90°$, $S = 180°$, $W = 270°$, $N = 360°$) : Speed in Metres per second.

413. Cahirciveen (Valentia Observatory) : Dines Anemograph from Jan., 1926.

H_a (height of anemograph above M.S.L.) = Height of ground above

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	85	4·5	90	4·2	90	3·3	70	4·8	60	6·7	75	4·2	50	4·5	45	4·0	35	3·3	30	2·0	30	2·1	30	1·7
2	300	4·1	310	2·4	—	...	—	...	10	1·2	—	...	30	2·3	45	3·5	65	1·9	65	1·0	65	1·1	—	...
3	60	4·0	45	4·0	20	4·2	30	4·2	30	2·0	30	1·5	—	...	15	3·0	10	2·0	20	3·2	20	4·6	10	5·0
4	315	8·0	305	6·5	315	7·9	330	5·8	335	3·7	335	3·5	345	3·5	350	3·8	355	1·9	360	1·7	10	2·4	360	1·8
5	60	1·6	110	3·1	130	4·4	120	3·7	130	5·0	115	5·3	105	5·5	100	5·6	100	5·4	105	5·0	140	5·7	140	5·5
6	105	6·0	100	5·6	90	6·3	100	7·0	105	6·4	100	5·2	100	4·9	100	5·0	100	4·7	95	3·8	90	3·6	90	3·2
7	100	3·3	115	2·2	—	...	—	...	—	...	100	1·2	135	1·8	355	1·1	—	...	45	1·4	40	2·3	50	1·1
8	80	1·1	80	1·1	65	1·5	70	1·8	60	1·6	60	2·0	60	1·6	—	...	60	1·0	50	1·9	155	1·1	160	1·9
9	30	3·6	30	2·7	40	3·0	50	3·0	50	2·4	50	1·4	—	...	—	...	—	...	—	...	—	...	—	...
10	65	1·5	80	1·6	70	1·5	70	1·4	70	1·0	—	...	—	...	70	1·2	70	1·2	—	...	—	...	—	...
11	240	3·7	260	5·5	240	3·4	220	4·4	245	6·4	240	6·2	250	7·0	240	6·5	235	6·9	250	8·0	245	8·1	245	8·1
12	295	7·1	295	6·8	300	6·8	305	6·7	295	6·4	320	6·5	350	4·8	360	3·5	360	5·1	340	4·6	10	7·2	355	7·0
13	10	13·0	10	13·2	15	12·8	20	10·1	20	11·4	20	12·1	25	12·9	25	12·2	25	12·3	25	12·8	25	13·5	30	10·9
14	45	2·6	50	2·2	50	1·2	—	...	50	1·2	50	1·0	50	2·5	50	2·6	—	...	—	...	50	1·6	50	1·0
15	290	5·0	285	5·1	290	7·3	310	7·7	325	7·4	315	7·3	320	7·1	335	7·5	335	5·8	330	7·3	320	7·6	320	6·5
16	285	4·8	275	6·0	270	6·3	270	6·4	265	6·1	260	7·5	265	7·7	260	8·2	250	8·4	250	9·0	245	9·5	250	10·8
17	300	8·5	295	8·4	290	9·2	295	9·7	295	9·8	295	7·6	300	8·5	295	9·3	315	9·3	310	9·0	310	8·9	310	8·9
18	290	2·2	270	4·4	260	2·7	215	2·0	255	3·6	275	5·6	280	6·6	285	6·9	290	6·4	(285)	(6·6)	(285)	(5·0)	(280)	(5·4)
19	225	6·9	230	7·8	235	7·5	240	7·7	235	7·4	235	7·2	240	7·7	240	7·6	230	7·3	225	6·5	220	7·6	215	8·0
20	290	4·6	295	3·0	270	4·3	265	5·6	270	3·8	295	5·4	300	3·0	310	1·5	—	...	—	...	—	...	180	2·7
21	185	6·8	175	6·0	165	6·6	165	6·3	165	6·0	160	5·8	155	6·7	155	6·2	150	4·9	145	3·3	75	2·1	25	4·2
22	270	4·5	265	4·5	265	5·2	265	5·7	245	4·5	205	3·7	185	4·4	190	4·8	195	6·0	190	7·3	190	9·3	195	10·0
23	225	7·6	225	7·8	220	8·1	235	7·7	230	7·1	225	(6·8)	230	(6·4)	225	(6·7)	215	7·0	200	8·8	215	11·9	250	12·8
24	270	13·6	270	13·0	280	11·0	280	10·9	280	12·6	280	13·0	280	11·5	280	11·5	275	12·4	280	11·7	275	10·5	280	9·9
25	300	9·0	290	10·0	300	9·0	285	9·1	285	8·7	280	7·8	280	9·1	275	9·0	270	7·0	270	8·2	280	7·8	270	8·8
26	320	9·4	325	9·3	325	8·0	315	6·0	315	5·3	310	5·3	300	4·8	295	3·8	295	2·5	295	2·4	95	1·0	—	...
27	155	8·3	150	7·6	155	6·9	160	6·5	170	5·6	175	6·4	185	6·9	185	8·0	185	8·8	180	9·5	180	11·0	190	13·3
28	290	8·8	290	7·6	285	5·5	285	6·9	280	6·0	265	7·3	260	5·7	260	5·6	230	5·0	230	6·2	230	6·0	225	7·4
29	290	10·5	290	9·4	290	9·0	290	9·8	285	9·7	290	9·0	290	9·1	290	8·6	285	8·9	270	9·6	265	11·0	270	10·1
30	360	6·7	360	6·9	350	5·9	345	6·8	340	6·4	335	7·5	355	5·5	340	6·5	350	3·6	350	3·5	320	4·7	320	4·8
31	215	7·7	200	8·5	200	10·3	200	11·5	195	11·1	195	11·8	195	12·0	190	13·0	190	14·2	205	13·5	220	12·6	225	10·8
Mean	—	6·1	—	6·0	—	5·8	—	5·8	—	5·7	—	5·7	—	5·7	—	5·7	—	**5·3**	—	5·5	—	5·8	—	5·9

414. Cahirciveen (Valentia Observatory) : H_a = 17 metres + 13 metres.

	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s
1	325	16·0	335	15·1	330	13·0	340	13·0	330	11·6	345	10·6	330	10·0	335	10·0	350	9·3	330	7·8	320	7·4	320	6·6
2	165	8·5	185	5·6	220	3·0	260	2·6	240	2·2	255	1·5	310	1·5	—	...	355	1·5	60	2·4	70	6·1	70	5·0
3	200	1·4	10	6·0	25	7·1	30	6·6	45	5·0	60	4·5	70	2·9	60	2·0	—	...	120	1·0	100	1·5	160	1·4
4	160	5·9	160	5·8	160	5·4	155	5·4	150	4·0	150	4·6	160	5·2	160	2·6	165	2·9	165	2·0	100	1·2	—	...
5	140	1·6	95	2·0	120	2·7	165	3·9	155	5·0	175	5·4	170	5·3	170	6·2	165	6·5	170	9·0	180	10·1	185	9·3
6	330	12·4	335	11·9	335	11·8	340	12·5	345	11·6	350	10·9	350	10·0	350	9·0	350	7·5	350	7·5	350	8·0	350	8·1
7	—	...	—	...	—	...	—	...	—	...	260	4·0	190	4·2	185	4·1	190	4·0	200	5·2	200	5·2	220	5·9
8	175	12·3	175	8·9	190	7·0	195	6·8	215	7·5	215	7·4	215	6·6	215	6·2	220	5·2	215	5·9	215	6·2	220	6·2
9	290	6·9	270	3·8	265	2·0	260	2·7	245	3·5	235	3·6	220	3·8	190	5·5	210	6·8	200	7·6	190	8·4	180	9·0
10	260	8·6	295	11·0	295	7·2	270	10·5	285	11·6	290	12·5	280	7·6	280	12·0	290	10·8	280	11·0	270	12·0	265	12·5
11	255	10·4	235	9·6	230	8·8	230	9·7	230	9·4	225	11·1	225	12·5	220	13·2	230	13·2	255	12·0	255	12·5	250	13·0
12	295	13·1	295	13·8	290	13·5	290	13·0	290	12·5	295	11·3	295	11·0	300	7·9	295	7·9	300	7·3	300	6·7	300	6·6
13	315	10·5	320	11·0	320	12·2	325	12·5	330	12·0	330	13·7	335	13·7	340	13·4	340	13·7	340	12·5	350	12·5	340	12·5
14	10	6·2	10	5·8	360	4·5	360	3·2	360	2·6	360	2·5	360	1·4	—	...	140	1·2	160	3·4	165	4·1	110	3·0
15	280	7·3	280	8·0	325	7·7	330	6·2	335	8·4	325	8·8	330	6·0	320	7·4	320	6·3	305	6·1	290	6·6	295	7·5
16	285	11·3	290	12·4	295	13·0	320	13·4	330	13·2	330	13·0	330	12·5	325	12·3	325	14·1	330	14·2	330	13·3	330	13·4
17	350	13·9	350	13·4	355	14·4	355	13·0	355	12·5	360	12·4	10	12·0	10	11·8	15	12·5	15	13·6	15	13·0	15	14·0
18	35	8·0	25	9·0	20	7·1	20	5·6	80	1·9	60	4·7	30	3·5	30	2·4	90	3·0	45	4·5	20	8·0	30	7·0
19	95	1·7	95	2·2	95	2·0	95	1·7	95	1·4	95	1·0	55	2·2	80	1·8	45	1·9	50	2·0	50	2·2	55	2·0
20	200	6·7	225	7·0	235	8·0	235	8·4	235	8·5	240	7·8	235	9·0	230	8·6	220	8·5	235	11·0	265	9·5	270	8·0
21	280	9·5	280	8·8	300	9·4	290	8·5	285	9·0	300	7·5	310	7·5	335	8·2	290	6·4	305	6·0	310	5·0	300	6·5
22	280	6·1	270	6·2	270	6·2	265	6·7	270	5·9	265	5·5	260	4·7	215	3·6	265	4·5	285	4·5	260	4·5	255	6·1
23	280	1·5	300	3·3	290	2·4	290	3·4	300	4·2	310	4·8	300	4·5	315	4·0	325	3·0	315	4·5	300	4·9	300	5·0
24	220	1·0	180	3·6	175	4·5	180	4·1	175	4·5	185	5·1	190	5·6	180	6·5	195	6·0	195	6·6	190	7·0	200	6·8
25	210	6·0	215	6·4	220	6·7	225	5·8	235	6·0	230	4·6	210	4·5	215	5·5	220	6·1	220	5·7	220	6·2	230	5·7
26	220	8·9	225	8·5	220	9·6	225	9·5	240	10·2	250	10·0	255	8·0	265	5·2	275	3·6	270	3·7	290	3·6	325	3·7
27	50	1·6	50	2·0	50	2·4	40	2·3	40	1·0	125	1·3	—	...	310	1·0	40	1·8	45	2·3	50	2·7	70	2·6
28	330	6·6	325	8·3	325	9·2	340	7·5	320	7·0	310	8·4	290	8·6	290	11·6	330	13·8	10	19·7	15	15·5	5	12·0
Mean	—	7·3	—	7·5	—	7·2	—	7·1	—	6·9	—	7·1	—	6·6	—	6·5	—	**6·5**	—	7·1	—	7·3	—	7·1
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 17 metres + 13 metres.

January, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
350	1·6	345	4·6	330	4·1	345	4·7	345	3·4	360	1·5	—	...	—	...	—	...	300	2·3	300	4·2	290	4·6	3·2	1
65	1·1	70	2·7	80	4·2	80	4·0	85	3·5	90	2·9	85	4·0	85	3·6	80	4·8	75	5·1	65	5·1	55	6·5	2·8	2
360	6·2	350	5·6	355	5·0	360	4·6	360	5·1	355	5·2	355	4·9	335	6·2	330	6·7	330	7·2	325	9·2	320	9·1	4·7	3
345	2·7	340	2·2	340	1·0	—	...	—	...	45	1·0	—	...	65	1·5	60	1·3	60	1·1	60	2·4	60	2·3	3·0	4
135	5·6	120	5·5	115	6·0	110	5·5	110	5·4	110	4·9	110	5·7	115	4·9	110	5·3	105	5·0	110	5·2	100	6·1	5·0	5
95	3·3	95	2·4	95	1·5	95	2·6	95	3·6	95	3·7	95	3·3	100	3·6	110	3·6	100	4·2	120	4·5	120	3·1	4·3	6
100	4·0	125	6·0	145	5·2	150	5·2	135	3·9	110	2·7	125	2·0	125	2·0	130	2·7	140	3·1	155	2·7	155	2·1	2·4	7
160	4·8	170	5·2	165	5·3	165	5·2	180	3·6	235	4·2	240	5·0	340	4·7	360	5·9	20	5·0	25	4·9	30	2·6	3·1	8
—	...	—	...	340	2·0	335	1·2	—	...	—	...	155	1·2	80	1·4	65	1·0	—	...	65	1·4	65	1·0	**1·3**	9
30	1·3	310	2·2	300	2·2	265	1·4	255	1·2	—	...	—	...	230	1·2	250	3·0	260	5·5	235	3·2	195	2·1	1·5	10
245	9·3	250	9·7	245	9·6	250	10·6	250	10·7	295	5·4	325	6·9	305	5·3	290	7·1	300	6·8	300	6·6	295	7·1	6·9	11
350	7·0	350	7·2	5	8·1	5	8·2	360	7·1	360	7·3	• 5	7·6	5	9·9	10	11·0	10	11·0	10	10·3	10	12·5	7·4	12
45	9·0	35	8·0	25	8·5	25	7·3	25	8·0	25	9·4	35	7·3	40	5·7	50	5·3	75	4·1	60	3·8	45	2·2	9·6	13
—	...	—	...	265	4·3	250	2·6	290	4·4	300	4·0	295	4·8	300	5·5	300	5·0	300	5·2	295	5·6	295	4·8	2·6	14
315	8·0	315	7·4	310	6·5	315	6·5	300	6·0	295	6·5	300	5·9	290	6·1	290	7·5	285	6·6	275	5·1	280	5·5	6·6	15
250	11·2	255	11·4	255	10·0	250	11·6	265	9·8	265	8·6	270	6·2	280	7·6	290	9·0	300	7·9	300	8·0	290	9·0	8·3	16
330	9·7	325	8·8	325	8·4	320	7·6	330	6·8	325	6·9	330	5·7	320	4·8	310	3·2	290	3·5	295	3·9	290	3·5	7·6	17
(275)	(5·4)	(280)	(6·6)	(285)	(5·9)	(285)	(4·0)	(280)	(4·3)	(275)	(4·3)	(275)	(3·7)	(275)	(4·3)	(270)	(4·6)	(255)	(4·8)	(250)	(4·8)	(240)	(4·4)	4·8	18
205	7·8	205	8·3	205	8·2	205	8·1	200	8·8	200	8·3	225	6·8	280	7·4	290	8·6	290	8·3	295	7·0	285	5·6	7·6	19
160	3·0	165	3·6	165	4·8	145	3·0	155	5·0	155	6·4	155	7·8	155	8·0	155	7·5	165	6·2	185	6·6	190	6·4	4·3	20
340	5·6	340	5·5	340	5·1	345	3·6	345	1·6	—	...	340	1·2	300	4·1	285	4·2	275	2·8	255	1·4	285	4·7	4·4	21
190	11·9	195	12·5	195	13·5	195	13·9	195	15·1	200	16·0	200	13·0	215	11·0	210	9·4	220	10·5	220	9·4	225	8·9	8·9	22
260	13·9	265	13·0	265	13·0	270	13·1	270	13·0	275	13·5	270	11·6	265	13·6	265	12·6	275	11·8	270	10·5	275	12·1	10·4	23
275	9·0	270	9·1	280	8·5	300	7·9	270	9·0	270	7·5	270	8·6	285	5·2	285	9·4	275	7·8	295	9·1	290	9·2	10·1	24
265	9·7	275	9·6	270	9·7	255	10·9	265	11·4	290	11·4	295	10·4	295	11·0	295	11·2	295	11·0	300	10·8	305	9·8	9·6	25
190	2·8	215	3·9	200	3·2	175	2·4	150	3·8	135	4·3	145	4·8	145	5·6	140	6·8	155	7·3	155	8·0	150	8·3	5·0	26
215	13·9	240	14·0	255	13·9	270	12·8	275	11·3	290	11·5	290	10·9	290	11·3	290	10·1	285	10·4	290	9·9	295	8·9	9·9	27
225	6·9	225	9·9	270	5·6	270	4·0	280	7·0	290	6·5	275	7·3	280	8·0	285	8·5	290	9·4	295	9·7	290	9·8	7·1	28
290	9·0	345	11·0	355	11·0	350	11·2	360	10·3	355	11·9	360	10·5	360	10·5	360	9·3	360	8·9	355	7·8	360	6·6	9·8	29
310	4·3	305	3·3	275	3·6	260	4·5	210	3·3	160	5·2	165	6·2	190	3·3	210	3·8	205	3·8	210	4·7	220	5·8	5·0	30
260	12·1	285	13·2	295	13·6	300	14·1	305	14·2	310	16·5	315	16·1	330	16·0	330	15·3	330	15·9	330	17·3	330	16·0	**13·0**	31
—	6·5	—	**6·9**	—	6·8	—	6·5	—	6·5	—	6·4	—	6·2	—	6·3	—	6·6	—	6·5	—	6·5	—	6·5	6·1	

February, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
305	4·6	295	3·9	280	3·5	270	1·5	200	2·4	180	3·5	180	3·3	170	4·8	180	5·6	180	6·2	170	7·0	170	8·2	7·9	1
25	11·4	15	8·6	10	10·0	30	8·8	60	6·8	55	5·0	25	5·5	10	7·0	25	5·6	20	3·8	10	1·9	60	1·5	5·0	2
220	1·0	200	3·0	180	2·9	180	3·7	180	3·7	160	4·7	160	4·7	160	4·0	160	3·1	160	4·1	150	4·4	155	5·4	3·4	3
—	...	80	1·5	80	1·3	50	2·6	—	...	—	...	—	...	—	...	35	1·4	35	2·0	35	1·4	40	2·2	**2·6**	4
185	10·1	185	10·9	185	12·1	190	12·1	185	12·6	180	13·3	190	11·5	220	8·0	240	7·2	280	11·0	305	11·1	320	13·5	8·1	5
350	8·2	350	7·2	350	7·5	340	7·3	335	5·3	340	3·5	340	3·8	340	1·5	—	...	340	1·1	—	...	—	...	7·3	6
210	7·7	200	7·5	190	6·7	185	6·6	180	7·3	180	8·5	180	9·3	180	11·1	175	12·0	180	13·4	180	14·2	180	13·8	5·9	7
220	5·3	235	5·5	225	5·0	200	3·6	180	5·0	170	6·5	200	7·3	210	9·1	215	10·6	220	10·5	225	8·5	255	8·0	7·3	8
185	9·0	180	9·5	170	10·4	170	10·0	185	9·9	200	10·5	200	9·3	205	9·9	210	10·7	220	11·2	230	6·7	240	7·8	7·4	9
285	11·5	280	11·1	275	11·0	290	9·0	285	8·6	285	8·0	275	9·0	270	8·0	270	8·5	270	8·5	245	8·4	250	9·9	9·9	10
255	14·1	270	11·4	280	13·0	290	13·5	285	12·7	280	14·0	290	15·0	285	15·0	295	15·5	290	16·0	295	15·6	295	15·2	12·7	11
300	6·0	300	7·6	305	7·8	315	9·0	320	9·7	315	8·7	320	8·5	315	9·0	310	8·6	310	9·0	310	9·7	310	9·4	9·6	12
340	12·5	350	12·0	350	11·2	350	10·0	355	8·5	350	9·2	355	9·0	360	9·5	360	9·2	360	8·7	10	8·5	10	8·0	11·1	13
40	4·0	325	8·8	320	7·9	330	5·3	330	4·6	315	6·5	315	6·5	295	9·0	290	9·5	290	9·0	290	8·5	280	7·0	5·2	14
290	6·6	270	7·1	285	6·3	290	7·0	290	6·5	285	6·3	280	7·0	280	8·0	280	8·2	280	8·2	285	9·0	275	9·4	7·3	15
340	15·1	345	13·6	345	14·5	345	15·3	345	14·4	345	14·1	345	14·0	350	14·0	345	13·7	345	14·5	355	14·5	350	14·0	**13·6**	16
15	13·7	10	13·5	10	13·8	10	13·0	5	14·8	10	13·5	5	12·5	10	11·2	20	13·0	30	10·0	35	8·4	30	7·6	12·7	17
40	6·0	15	7·3	25	6·6	10	5·5	360	4·2	360	2·6	50	2·2	55	1·5	140	1·6	95	1·0	95	1·3	95	1·9	4·6	18
310	3·4	240	4·5	230	4·2	230	4·5	210	5·1	190	4·5	210	4·2	220	3·8	230	4·0	205	4·0	180	5·4	185	6·2	3·1	19
280	8·0	270	8·7	270	9·3	270	9·5	270	9·0	255	8·9	270	8·2	260	9·5	250	9·8	270	8·9	270	10·0	270	8·5	8·7	20
295	6·0	290	6·0	290	6·5	275	7·2	275	5·9	260	5·6	290	5·7	280	4·0	250	5·0	270	4·4	270	5·0	275	4·6	6·7	21
265	6·4	270	5·5	260	5·3	270	5·8	290	4·4	280	2·9	285	3·7	290	3·7	275	3·5	290	3·8	300	4·0	300	2·6	4·9	22
295	4·9	295	4·7	300	4·5	330	3·0	310	4·0	305	2·7	300	4·0	295	3·7	280	3·2	280	2·7	265	5·0	240	3·2	3·8	23
195	6·7	195	6·5	200	7·3	210	8·5	220	8·6	220	7·7	220	6·3	220	5·9	220	6·1	220	6·5	220	6·8	215	5·8	5·9	24
240	5·9	235	6·0	240	7·0	240	7·6	240	7·1	235	5·7	215	4·5	220	5·3	220	5·3	220	6·7	220	7·5	220	8·3	6·0	25
355	4·4	5	4·1	360	4·7	10	5·0	5	5·0	10	4·5	45	3·5	50	3·6	75	2·7	85	3·1	80	3·0	65	1·8	5·5	26
50	1·8	35	2·5	40	4·3	30	7·4	30	7·6	30	7·5	30	5·9	15	6·4	5	6·3	355	5·2	355	7·0	340	7·1	3·7	27
355	11·1	345	10·5	320	9·9	330	10·9	325	10·4	335	12·4	340	12·1	335	11·3	335	11·5	315	9·7	335	12·1	335	12·1	10·8	28
—	7·4	—	7·5	—	7·7	—	7·6	—	7·3	—	7·2	—	7·0	—	7·1	—	7·2	—	7·3	—	7·3	—	7·3	7·2	
13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day

Direction expressed in degrees from North (E=90°, S=180°, W=270°, N=360°) : Speed in Metres per second.

415. Cahirciveen (Valentia Observatory) : Dines Anemograph from Jan., 1926.

H_a (height of anemograph above M.S.L.) = Height of ground above

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	345	11·8	330	10·1	325	12·3	335	12·8	325	9·4	340	8·2	345	7·9	310	7·2	340	8·3	335	7·0	320	7·4	335	7·2
2	100	5·8	115	5·9	115	4·8	105	4·5	100	4·9	100	5·3	100	4·9	110	6·2	105	6·9	100	6·9	100	6·3	105	6·5
3	145	4·8	70	2·7	85	1·3	175	1·0	75	1·0	80	2·1	80	2·1	70	1·2	65	1·8	80	2·2	100	4·7	110	5·6
4	75	8·8	70	8·7	75	8·5	95	6·1	105	5·8	110	5·5	110	4·5	100	5·0	145	2·4	105	1·5	55	2·1	125	3·3
5	135	5·4	135	5·7	140	6·1	145	7·0	145	7·6	135	7·4	140	7·1	125	7·4	135	8·6	135	8·0	120	9·0	115	8·7
6	110	10·8	105	11·0	100	10·8	100	11·2	100	12·8	100	14·1	95	11·0	95	10·3	80	10·8	80	11·1	70	10·0	70	8·9
7	80	9·4	85	8·4	80	8·4	80	8·7	80	9·9	75	9·1	80	9·7	80	10·3	70	9·2	75	10·3	80	10·5	90	9·9
8	70	6·4	70	7·3	80	7·0	70	6·9	70	7·5	65	8·7	70	9·0	65	8·1	80	7·7	80	7·0	90	5·4	90	5·2
9	90	7·3	70	5·7	80	5·2	90	6·2	65	5·0	65	5·3	60	3·1	60	3·0	55	5·1	50	6·5	50	7·0	45	8·8
10	65	2·1	50	2·4	45	4·2	45	5·3	40	6·0	40	5·1	40	3·9	70	1·8	95	3·0	340	4·5	345	6·7	20	7·6
11	50	4·0	50	4·6	55	3·7	50	3·6	55	4·2	50	5·3	35	4·9	35	4·1	35	6·1	40	5·0	40	5·0	25	5·5
12	45	2·1	45	1·2	—	...	65	1·2	120	1·4	80	1·3	55	1·1	55	1·4	60	1·4	190	2·1	220	1·7	270	1·8
13	190	5·0	190	5·0	220	5·2	220	5·2	240	5·0	220	4·0	200	4·8	220	4·7	210	3·5	(270)	1·9	(270)	3·8	(270)	3·3
14	(260)	3·0	(260)	4·0	(225)	3·5	(220)	3·0	(225)	2·6	(230)	2·4	(210)	4·2	(205)	2·5	(170)	4·0	180	5·3	185	6·7	190	6·7
15	190	7·7	180	8·5	170	7·0	170	6·8	170	7·7	180	7·2	170	8·0	160	8·6	165	7·9	170	8·2	170	8·5	165	8·3
16	110	9·5	110	10·0	110	10·8	110	10·5	110	11·2	110	8·5	110	9·0	115	11·6	115	11·1	105	10·5	120	10·2	115	10·8
17	150	11·4	150	10·4	155	10·0	160	9·5	155	8·7	140	8·5	140	8·5	140	9·4	145	9·9	150	9·8	145	9·0	145	9·0
18	100	11·2	115	10·9	120	11·1	110	11·0	105	10·8	110	10·7	105	10·0	110	10·4	100	9·0	95	8·2	100	7·4	125	7·3
19	110	6·7	105	7·0	105	8·0	105	8·0	95	8·1	80	7·8	70	7·9	90	7·6	100	8·0	95	8·4	105	10·5	125	10·8
20	155	11·1	150	11·8	150	10·5	150	10·5	150	10·5	150	10·7	135	9·9	135	9·0	130	10·1	145	11·8	140	11·4	140	10·7
21	160	6·6	160	6·2	175	5·3	180	4·6	180	5·0	185	4·7	185	4·8	190	4·8	180	6·5	190	6·5	185	8·1	190	8·5
22	155	6·0	155	5·2	150	5·3	145	4·8	135	4·9	110	4·8	110	4·6	90	3·5	95	3·7	95	4·1	110	3·5	135	3·3
23	5	1·8	340	2·3	360	1·5	—	...	—	...	40	2·0	20	1·9	25	1·5	30	1·4	20	1·1	—	...	25	2·0
24	55	3·9	40	1·9	70	2·3	95	1·5	70	1·9	80	1·1	120	1·4	90	2·5	90	2·7	105	2·5	100	4·2	80	6·0
25	90	3·2	120	3·6	120	4·2	100	6·0	100	6·7	100	4·7	95	5·2	105	6·6	105	7·0	105	5·7	100	6·4	100	6·2
26	115	5·9	130	6·8	130	6·8	110	6·6	110	5·8	130	6·9	140	7·7	135	7·5	140	7·6	145	7·8	135	7·6	120	7·1
27	75	5·3	90	5·8	110	5·3	110	2·9	100	4·1	100	5·4	100	4·4	105	4·4	225	1·1	165	5·3	150	4·5	150	4·2
28	150	4·9	140	5·5	150	5·7	150	6·4	150	6·4	145	6·3	140	5·8	110	4·2	130	4·5	150	6·4	145	5·9	140	6·0
29	100	10·3	135	9·2	150	10·4	135	11·7	130	12·0	120	10·5	130	9·9	130	9·3	145	8·2	170	9·4	170	9·5	190	8·5
30	165	7·9	165	7·0	160	7·5	165	6·6	160	7·1	155	7·7	150	8·4	155	8·0	150	8·7	160	9·6	155	9·5	170	10·0
31	170	5·3	155	6·4	160	6·5	160	6·6	160	6·3	155	6·2	165	6·0	165	6·3	160	7·1	160	6·3	170	7·5	170	7·0
Mean	—	6·6	—	6·5	—	6·4	—	6·4	—	6·5	—	6·4	—	6·2	—	6·1	—	6·2	—	6·5	—	6·8	—	6·9

416. Cahirciveen (Valentia Observatory) : $H_a = 17$ metres + 13 metres.

	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	155	10·0	150	9·2	150	9·6	140	10·1	140	8·4	140	8·0	105	5·5	80	5·3	70	5·0	75	5·8	70	7·2	65	7·6
2	345	8·0	350	8·2	360	8·6	340	9·6	330	9·3	360	12·2	360	11·2	360	11·0	360	9·2	360	8·8	360	10·2	360	13·0
3	5	7·4	10	5·8	350	6·0	360	4·1	10	3·8	360	4·5	360	4·2	15	4·4	340	5·8	340	5·2	345	5·0	320	5·4
4	—	...	360	1·5	45	1·3	—	...	45	1·3	—	...	—	...	—	...	—	...	190	1·6	265	3·6	270	4·6
5	250	8·7	255	8·0	265	5·1	260	4·3	260	4·8	260	5·2	260	5·1	290	4·8	280	5·0	255	4·5	265	4·6	265	4·9
6	260	3·7	260	4·8	265	4·6	280	4·8	280	4·2	295	4·0	320	1·0	260	1·1	190	2·0	250	3·7	255	3·9	255	4·4
7	190	5·8	200	7·2	185	6·6	185	7·3	180	7·3	180	7·8	175	8·0	170	9·2	175	10·6	170	10·7	170	11·8	175	11·7
8	165	6·6	170	6·1	170	6·9	170	6·1	170	6·9	180	5·5	165	7·1	160	6·4	170	6·3	175	7·1	185	7·5	190	6·4
9	85	1·0	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	220	1·8	300	1·4	280	1·8
10	170	2·5	175	4·3	175	4·5	170	4·4	170	3·4	165	4·1	155	2·9	165	4·0	175	4·8	175	6·7	175	7·8	170	7·1
11	170	6·0	165	6·0	170	5·5	175	5·5	180	7·5	180	9·0	175	9·9	170	9·6	175	10·2	175	10·6	175	10·4	175	11·5
12	340	5·5	355	4·7	335	4·6	320	3·8	320	4·1	320	4·1	310	4·2	310	5·2	305	4·1	300	4·5	295	4·8	300	4·7
13	360	6·4	10	4·2	360	3·2	5	3·0	25	1·7	—	...	20	1·2	340	4·0	330	4·9	310	4·4	305	3·3	270	3·4
14	275	3·3	300	3·6	295	2·1	305	3·4	310	2·5	310	1·8	305	2·7	300	3·1	300	3·0	310	3·4	315	4·3	330	3·8
15	220	5·3	225	5·6	220	5·4	215	6·1	225	6·6	230	7·8	280	7·5	310	7·4	325	10·3	330	9·7	330	9·2	325	9·5
16	320	5·1	340	5·1	360	4·4	345	4·9	345	2·8	350	2·8	345	3·5	325	4·5	330	4·6	320	5·0	320	5·7	300	5·0
17	280	7·9	285	9·5	290	10·5	295	10·6	300	9·7	300	9·9	345	9·6	345	8·5	345	8·8	345	9·1	340	9·4	345	10·5
18	360	9·7	5	9·7	5	10·6	5	9·6	10	10·0	10	10·3	10	10·0	10	9·6	10	9·2	10	9·6	10	9·7	10	10·3
19	25	6·4	25	5·7	30	6·7	35	7·1	35	7·9	40	5·1	40	4·6	30	5·0	30	5·6	20	8·0	25	9·4	30	9·0
20	20	8·7	25	7·4	30	7·7	30	7·9	30	7·8	40	5·8	50	6·0	45	5·6	55	5·5	45	6·6	15	6·6	20	6·9
21	50	3·6	30	4·0	50	2·0	60	1·5	30	1·7	40	2·8	40	3·0	15	3·5	10	3·8	10	3·1	360	3·9	320	4·5
22	55	1·0	60	1·0	—	...	60	1·8	55	1·8	55	1·9	55	1·5	100	1·9	175	3·8	180	5·1	175	5·7	195	6·0
23	135	3·0	130	3·0	145	3·9	175	2·5	250	4·6	225	2·5	190	2·7	180	4·2	180	5·2	195	6·4	185	5·9	200	6·0
24	170	4·4	180	2·0	165	6·0	150	3·6	—	...	140	2·0	150	4·0	170	3·9	180	4·8	185	5·1	185	5·8	190	5·3
25	160	2·9	150	1·5	—	...	—	...	105	1·3	60	1·5	—	...	—	...	315	2·8	320	4·8	330	5·4	320	5·4
26	340	7·0	335	6·7	325	7·6	315	7·1	320	7·9	325	8·0	320	8·0	320	9·2	320	9·7	330	11·3	330	11·3	325	13·1
27	330	8·5	325	8·4	320	8·3	320	6·8	300	6·2	300	5·5	295	6·7	295	7·9	290	7·5	290	7·2	295	6·9	290	7·5
28	280	3·2	260	4·2	285	4·3	275	4·0	270	3·8	275	3·9	285	3·0	280	3·8	275	2·8	280	4·5	305	3·5	275	2·8
29	—	...	70	3·1	70	2·5	70	1·9	70	1·7	—	...	100	1·8	105	2·0	100	2·6	105	3·6	110	3·9	120	4·4
30	165	2·0	185	1·6	—	...	—	...	—	...	—	...	—	...	270	1·4	265	2·0	260	2·5	265	3·0	280	3·4
Mean	—	5·2	—	5·1	—	5·0	—	4·8	—	4·7	—	4·6	—	4·6	—	4·9	—	5·4	—	6·0	—	6·4	—	6·7
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 17 metres + 13 metres.

March, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
350	6·1	335	4·8	345	4·0	320	2·6	315	1·1	—	...	90	3·0	95	4·6	105	4·6	90	4·1	90	5·4	90	5·1	6·6	1
110	6·2	110	5·6	110	5·8	110	6·1	110	6·4	105	7·2	95	6·1	85	5·9	75	4·8	110	5·0	100	3·9	105	2·6	5·7	2
110	5·9	110	6·8	105	6·3	95	5·6	100	8·3	95	7·6	80	7·1	85	7·3	95	7·6	95	7·1	85	9·0	95	9·8	4·8	3
165	5·0	170	5·0	170	4·8	170	4·9	165	5·1	165	4·3	160	5·6	150	5·6	145	4·6	160	4·0	145	4·8	145	5·7	5·2	4
115	9·0	135	10·3	135	9·7	130	9·8	125	10·5	115	10·3	120	10·6	130	9·7	125	9·6	125	9·3	125	9·6	115	10·0	8·5	5
75	10·9	75	6·9	75	8·6	85	10·7	90	10·3	90	11·0	90	8·6	85	8·0	75	9·2	80	11·3	80	10·5	80	10·4	10·4	6
90	9·5	80	8·6	85	7·9	85	7·6	90	6·2	85	6·5	80	4·9	75	5·0	75	5·5	70	5·5	70	5·3	65	6·5	8·1	7
100	6·4	100	6·2	105	6·5	100	6·5	100	6·4	90	5·6	95	5·4	100	5·2	90	5·7	90	5·3	90	5·2	85	7·0	6·6	8
60	8·7	65	7·6	55	6·8	60	6·1	50	6·5	50	6·0	50	4·8	50	6·4	50	6·0	65	4·1	50	3·4	100	1·9	5·8	9
30	6·6	20	7·2	30	6·5	25	6·6	10	6·8	5	6·2	10	5·8	25	7·1	30	6·6	25	6·6	20	6·0	30	5·3	5·3	10
30	5·6	20	4·8	15	3·9	15	5·9	10	6·2	15	5·8	15	4·2	10	4·4	10	3·0	5	5·2	40	2·4	30	2·6	4·6	11
255	2·9	240	4·0	225	4·5	220	4·5	230	4·9	210	3·7	185	4·0	190	3·7	205	3·6	195	4·2	200	4·2	190	4·7	2·7	12
(270)	5·0	(255)	5·6	(275)	6·2	(270)	6·1	(275)	5·2	(280)	2·8	(280)	4·5	(275)	4·0	(270)	4·9	(270)	5·4	(260)	4·4	(250)	4·2	4·6	13
185	7·4	185	7·3	185	7·5	195	7·5	185	7·2	180	5·7	175	5·0	170	4·9	170	5·8	175	5·2	185	6·6	185	6·4	5·1	14
150	8·2	150	7·9	150	8·1	145	7·9	140	8·1	140	7·9	130	7·7	130	7·5	130	7·9	125	7·0	120	7·6	130	7·9	7·8	15
110	12·2	110	12·2	110	14·0	110	14·0	110	13·0	115	12·3	120	11·5	125	11·8	135	13·0	140	12·8	145	12·4	150	11·5	11·4	16
140	10·0	130	9·2	120	8·4	125	10·0	130	9·9	120	9·8	110	10·0	105	11·0	105	11·8	105	11·7	105	10·6	95	10·3	9·9	17
145	6·5	145	6·5	150	6·3	140	6·2	145	6·0	140	5·2	140	6·1	140	5·5	145	6·4	140	6·5	140	6·0	130	5·8	8·1	18
150	10·2	150	10·9	150	11·0	150	11·4	150	10·9	150	10·6	150	10·6	150	10·8	150	11·9	155	11·4	155	11·0	155	10·9	9·5	19
145	11·1	150	12·4	150	11·5	155	9·9	155	9·2	150	7·8	155	5·8	150	5·6	150	4·8	150	4·9	150	5·1	155	6·4	9·4	20
190	9·1	190	9·0	185	7·9	180	7·6	180	6·8	170	6·6	170	5·7	170	5·3	160	5·5	155	5·6	155	5·5	150	5·8	6·3	21
155	4·0	155	4·0	180	5·2	190	4·3	270	2·0	185	3·2	170	3·4	180	3·0	185	1·7	—	...	10	2·1	—	...	3·8	22
25	3·6	10	4·0	15	5·0	20	6·1	20	6·5	20	6·5	40	3·0	65	4·5	75	4·4	80	5·4	80	4·8	60	3·3	3·0	23
80	7·9	90	5·4	90	4·5	120	2·9	60	3·4	95	3·9	110	5·3	105	6·3	90	3·5	90	4·9	90	4·5	75	4·0	3·7	24
90	5·4	105	11·0	100	8·9	100	9·0	105	10·0	110	10·5	110	9·4	100	7·5	105	8·3	105	7·8	120	8·0	125	7·6	7·0	25
125	6·7	130	6·8	130	6·8	120	6·4	130	5·7	140	6·2	145	6·0	130	5·5	130	4·1	120	3·3	95	4·0	80	4·5	6·3	26
160	5·5	160	6·2	155	5·3	160	5·8	180	3·8	170	3·4	125	2·8	130	2·9	120	2·6	100	2·9	145	5·0	150	5·0	4·3	27
150	6·0	140	5·8	105	5·0	100	5·7	100	6·6	95	8·0	95	6·2	100	7·4	95	9·5	110	7·1	130	7·6	125	7·6	6·2	28
190	7·6	185	7·1	175	7·8	175	8·2	170	7·0	165	6·2	160	6·5	155	7·0	160	6·3	160	7·2	165	6·9	165	7·5	8·5	29
170	9·0	160	9·1	160	6·5	170	5·8	165	5·7	180	5·8	180	5·7	180	5·5	175	4·4	165	5·1	165	5·1	165	5·3	7·2	30
170	6·6	165	7·1	170	6·9	160	7·8	145	7·7	150	8·5	150	8·7	155	9·6	155	10·2	155	10·2	155	10·0	155	9·5	7·4	31
—	7·3	—	7·3	—	7·0	—	7·1	—	6·9	—	6·6	—	6·3	—	6·4	—	6·4	—	6·3	—	6·4	—	6·3	6·6	

April, 1931.

°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
60	6·7	50	7·0	25	8·6	10	8·0	5	9·0	5	9·0	360	8·0	360	6·8	335	8·2	345	8·0	345	8·4	345	8·0	7·8	1
350	12·0	350	12·3	350	12·3	350	12·0	350	11·0	360	9·5	360	8·4	360	8·8	10	7·0	360	7·2	360	5·7	360	6·6	9·7	2
340	4·5	330	6·2	330	6·6	330	6·0	330	6·0	340	4·3	345	2·9	345	2·1	—	...	350	1·2	—	...	—	...	4·4	3
255	5·2	260	5·4	255	6·2	245	6·0	245	6·4	250	6·5	240	6·1	240	5·6	240	5·7	240	6·2	245	7·0	250	8·2	3·6	4
265	5·4	260	5·9	260	6·0	260	6·5	265	6·1	265	5·5	265	4·7	270	3·7	270	3·9	270	3·6	265	2·4	260	2·0	5·2	5
265	4·5	240	4·4	230	5·2	220	5·4	205	5·7	200	6·0	180	6·1	185	5·7	175	6·3	170	6·1	180	6·0	190	5·6	4·5	6
170	11·9	170	11·2	170	10·8	170	11·1	170	10·2	170	10·4	170	9·9	175	9·9	170	9·8	175	9·2	175	8·4	170	7·1	9·3	7
215	6·4	225	6·0	195	5·2	185	5·2	180	3·1	—	...	—	...	—	...	—	...	—	...	—	...	—	...	4·7	8
275	2·5	270	2·8	270	3·6	280	2·8	285	2·8	275	1·6	—	...	—	...	—	...	—	...	—	...	120	1·0	1·2	9
180	7·4	180	7·2	185	6·5	180	6·0	165	6·2	170	6·9	160	5·8	160	5·6	160	5·5	165	6·4	165	5·7	165	6·5	5·4	10
190	10·4	185	9·7	185	8·1	185	6·9	185	7·2	195	6·7	200	7·0	220	7·8	270	5·9	345	4·9	350	4·4	335	4·8	7·8	11
295	5·0	290	5·6	295	5·5	310	6·2	320	7·6	330	7·1	350	7·3	350	6·4	350	6·7	360	6·5	360	5·9	360	5·2	5·4	12
270	3·5	280	4·5	275	4·2	275	3·8	280	4·6	290	4·8	295	4·5	305	2·9	300	4·0	300	4·2	300	2·9	290	2·7	3·7	13
320	2·9	275	3·1	260	2·5	265	3·0	270	2·9	270	2·5	265	2·1	240	1·9	220	1·0	185	2·1	185	3·3	205	4·4	2·8	14
325	9·7	325	9·2	325	9·6	330	9·6	325	9·6	335	9·5	335	8·3	345	6·4	340	5·9	345	5·7	340	7·6	360	4·1	7·7	15
305	4·7	295	4·3	280	5·4	285	6·4	285	5·2	290	6·0	290	5·0	290	5·6	280	5·9	275	6·6	280	7·2	275	7·2	5·1	16
345	11·7	340	11·5	345	10·8	350	11·0	355	12·0	360	11·2	360	11·0	5	9·8	360	9·7	355	10·9	360	10·3	355	10·0	10·1	17
10	10·8	10	11·2	10	11·2	10	10·5	10	10·6	10	9·7	10	9·8	10	9·4	15	9·4	50	4·5	30	6·0	30	6·8	9·6	18
25	9·0	10	10·0	10	9·8	20	9·5	20	7·5	20	8·4	20	7·7	25	7·6	25	7·1	20	7·5	20	9·5	20	9·0	7·6	19
5	7·2	15	7·2	20	7·8	15	7·4	10	8·2	10	7·7	5	8·1	10	7·6	5	6·8	10	6·0	40	4·6	50	3·8	7·0	20
330	5·2	320	5·6	315	5·9	315	5·5	320	5·7	335	5·9	340	4·5	350	3·3	5	2·5	20	2·0	35	1·0	35	1·0	3·6	21
220	6·2	225	5·9	255	5·5	260	6·1	255	5·4	250	4·8	240	3·6	265	2·3	215	1·4	160	2·8	170	3·1	160	3·9	3·4	22
215	5·6	220	6·7	210	7·6	200	8·1	185	7·2	180	7·1	175	5·9	180	5·5	165	5·6	160	6·2	155	6·3	160	6·6	5·3	23
175	4·1	185	5·0	180	5·3	180	5·8	180	5·5	175	5·3	160	5·0	155	4·7	160	3·6	170	1·8	170	2·0	165	2·5	4·2	24
315	5·8	310	6·1	310	5·3	295	4·9	310	5·7	310	5·2	315	4·5	310	4·5	310	5·5	310	6·8	320	7·2	320	6·8	3·9	25
325	12·9	320	13·4	325	13·2	325	14·6	325	13·6	330	12·4	330	11·6	330	11·6	330	10·1	330	9·5	325	8·2	330	8·5	10·2	26
290	6·8	290	7·0	290	6·8	295	6·4	300	6·0	295	5·6	295	6·6	320	4·5	310	4·6	325	3·9	285	4·4	275	4·1	6·5	27
275	3·0	270	2·5	270	2·1	270	1·6	270	1·2	260	1·1	255	1·2	—	...	—	...	—	...	—	...	—	...	2·5	28
110	4·5	115	4·1	130	5·5	130	5·5	125	4·4	130	4·9	105	4·5	90	5·0	85	2·3	—	...	—	...	—	...	2·9	29
310	4·7	335	5·6	330	5·7	330	7·1	340	7·3	340	5·8	340	6·5	345	4·8	340	3·4	335	3·5	345	2·8	355	4·0	3·2	30
—	6·7	—	6·9	—	6·9	—	7·0	—	6·8	—	6·4	—	6·3	—	5·4	—	5·0	—	4·8	—	4·8	—	4·7	5·6	
13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day

Direction expressed in degrees from North (E=90°, S=180°, W=270°, N=360°): Speed in Metres per second.

417. Cahirciveen (Valentia Observatory): H_a (height of anemograph above M.S.L.) = Height of ground above
Dines Anemograph from Jan., 1926.

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	360	4·0	360	3·5	360	2·2	—	…	—	…	—	…	—	…	355	1·0	340	1·6	330	2·0	275	2·7	270	2·4
2	35	5·3	30	4·6	20	5·8	25	6·9	25	5·7	25	4·2	40	4·2	35	5·7	30	5·8	30	5·8	15	5·6	20	5·9
3	20	4·9	40	3·4	50	4·0	50	2·1	50	1·8	50	1·0	—	…	25	2·4	345	3·9	360	6·1	5	6·3	345	7·5
4	10	5·0	340	4·4	355	5·0	345	4·5	340	5·0	345	4·9	325	4·4	315	3·7	305	4·1	340	2·5	305	4·9	285	5·2
5	250	4·8	240	5·1	245	4·4	215	3·1	195	4·2	205	4·2	220	4·1	225	3·7	210	4·8	190	5·4	180	5·9	180	7·6
6	20	2·0	285	1·0	170	3·7	160	5·4	160	5·4	160	4·5	165	5·3	220	4·8	260	1·6	260	1·3	260	1·2	260	1·7
7	—	…	—	…	—	…	—	…	—	…	—	…	—	…	150	2·9	145	3·9	140	3·8	135	3·8	160	3·7
8	—	…	—	…	—	…	—	…	—	…	85	1·6	—	…	—	…	—	…	280	1·6	275	1·7	275	3·0
9	165	5·1	150	6·7	160	7·0	155	6·2	155	7·0	160	9·3	165	9·3	160	10·0	165	9·2	165	9·3	170	9·1	170	8·6
10	180	7·8	180	7·9	185	8·5	185	9·0	180	8·3	180	8·2	180	9·1	185	9·6	190	10·1	195	8·5	210	5·2	215	3·8
11	225	6·2	225	6·0	225	5·6	225	5·7	225	5·4	225	5·7	230	6·1	225	6·3	225	7·2	220	7·6	225	7·9	225	7·9
12	180	4·2	185	5·1	190	5·4	185	5·8	180	5·2	180	7·0	175	8·0	180	8·2	180	9·6	175	10·4	180	10·9	185	10·5
13	195	6·6	200	5·0	190	6·1	190	6·5	195	7·6	190	8·5	195	8·6	195	9·8	195	10·1	200	10·5	190	11·0	195	11·3
14	225	10·7	230	10·5	230	10·8	225	10·8	225	11·0	225	10·8	230	10·0	230	9·8	230	10·4	230	10·0	230	10·4	225	10·9
15	225	4·1	225	3·2	225	2·2	220	2·0	185	1·0	—	…	—	…	—	…	205	2·0	270	2·6	270	3·8	290	3·0
16	—	…	—	…	—	…	—	…	—	…	—	…	—	…	—	…	280	1·1	300	1·9	290	2·1	295	3·3
17	—	…	—	…	—	…	—	…	10	1·2	—	…	—	…	340	1·4	325	2·0	305	1·8	290	2·6	275	4·5
18	—	…	360	2·0	60	3·4	65	1·9	60	1·8	60	1·7	60	1·0	80	2·7	20	1·2	300	2·3	330	3·1	320	2·8
19	—	…	310	1·0	305	1·6	280	3·8	275	1·0	275	1·0	305	3·3	335	6·5	320	6·5	320	6·8	335	7·5	330	6·7
20	5	1·0	20	1·4	—	…	50	1·0	—	…	—	…	120	2·8	160	4·8	155	5·1	170	5·6	180	7·4	175	8·6
21	140	11·7	145	11·1	145	9·8	140	10·7	140	10·4	140	10·2	135	9·9	140	9·2	140	8·5	115	7·3	110	8·7	105	9·0
22	160	5·8	150	5·7	150	5·0	150	4·4	145	3·9	110	4·1	110	4·1	110	3·4	110	3·8	120	5·0	130	5·1	125	5·9
23	165	8·5	160	7·9	160	7·4	160	7·7	160	7·1	160	7·0	155	7·7	155	7·5	155	7·3	160	6·8	150	6·6	155	7·8
24	155	4·8	150	5·3	135	5·8	130	6·2	130	6·7	130	8·0	140	8·0	155	8·0	170	9·2	180	9·5	175	10·6	180	11·2
25	200	8·5	195	8·3	190	8·5	190	9·3	190	9·9	185	10·0	190	9·5	190	9·7	190	9·8	190	10·8	190	10·0	195	9·5
26	170	4·7	165	4·3	170	3·5	175	3·6	175	3·2	180	2·2	180	4·4	175	5·7	175	6·7	175	7·3	180	7·7	180	8·5
27	145	5·0	130	3·7	115	3·7	105	4·5	105	4·4	105	4·5	110	3·1	105	3·4	130	2·9	140	3·8	145	3·4	135	3·3
28	65	4·8	55	5·0	60	5·9	65	5·6	65	4·0	70	3·8	90	3·4	95	4·2	125	4·0	140	5·3	155	5·5	160	5·9
29	140	6·5	135	5·7	130	5·6	105	6·5	100	6·8	105	7·2	100	7·0	105	11·1	110	9·0	115	8·8	75	6·6	75	4·9
30	75	4·0	90	3·7	85	3·5	30	1·4	40	2·1	55	2·1	15	1·1	180	3·0	195	3·6	200	4·0	200	4·7	205	5·0
31	—	…	350	2·4	70	1·2	315	1·2	335	2·6	345	3·3	340	4·5	330	5·1	330	5·5	330	7·2	330	7·5	335	8·0
Mean	—	4·5	—	4·4	—	4·5	—	4·5	—	**4·4**	—	4·5	—	4·6	—	5·3	—	5·5	—	5·9	—	6·1	—	6·4

418. Cahirciveen (Valentia Observatory): $H_a = 17$ metres + 13 metres.

Day	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	335	5·1	340	4·3	335	3·5	320	2·5	325	2·4	340	2·2	345	3·1	315	2·6	275	2·6	290	2·2	315	2·0	295	2·4
2	125	2·4	135	2·0	160	6·0	165	6·5	175	7·3	180	7·1	190	6·8	190	6·9	190	6·9	190	7·3	190	7·4	185	8·1
3	190	6·0	190	5·6	195	5·5	195	5·5	190	5·1	190	4·6	190	4·0	185	5·0	180	6·6	175	6·7	165	6·8	170	7·0
4	145	10·0	145	11·5	140	10·7	(120)	10·0	(115)	9·2	(125)	8·7	(120)	7·6	(120)	8·5	(110)	8·4	110	10·0	110	10·0	115	7·5
5	145	7·1	130	5·9	120	4·1	130	3·7	140	3·0	145	4·2	160	5·4	150	3·0	160	3·9	155	5·1	160	5·8	130	5·9
6	200	3·4	200	3·6	190	3·2	170	4·1	165	2·8	175	3·5	175	3·9	180	4·8	185	5·5	185	5·9	190	4·9	230	5·2
7	175	4·8	180	5·2	160	5·3	145	3·0	125	3·1	140	2·4	145	2·5	170	1·9	155	3·2	165	5·2	150	6·4	130	3·8
8	230	4·7	225	4·6	230	4·9	230	6·0	235	5·5	230	5·2	230	5·4	230	6·2	225	6·8	230	7·8	230	8·0	230	3·8
9	85	4·6	100	3·4	150	1·8	170	3·6	175	3·5	205	3·4	215	3·0	210	3·8	215	4·3	220	4·7	225	6·2	215	5·3
10	175	6·6	170	6·9	170	7·4	190	8·1	190	8·2	190	9·9	195	10·4	190	9·9	195	9·3	195	9·8	190	10·2	190	10·0
11	235	3·5	195	3·0	185	2·7	180	2·7	170	2·9	130	2·1	155	3·6	155	3·6	140	3·2	125	3·3	95	4·9	60	3·8
12	330	3·1	350	3·2	355	2·2	350	1·7	355	1·4	355	1·4	335	2·9	335	2·6	325	2·5	290	2·3	270	3·1	270	3·1
13	—	…	—	…	65	1·2	—	…	120	1·6	145	3·6	130	5·4	140	4·3	135	5·9	170	6·0	180	7·5	170	7·0
14	75	4·6	85	3·5	145	5·4	155	6·2	160	7·0	170	5·1	170	5·0	230	5·3	330	7·8	340	7·6	330	7·2	325	7·0
15	225	4·8	215	6·0	210	7·2	205	7·6	200	8·2	200	8·1	195	7·6	190	9·6	190	10·8	185	12·5	195	11·6	195	12·8
16	205	7·2	210	7·5	225	5·9	225	5·4	230	5·4	230	5·3	235	5·6	245	6·2	245	6·6	230	7·0	230	6·6	230	7·1
17	—	…	—	…	—	…	70	1·0	—	…	70	1·2	230	1·0	230	1·9	275	3·0	275	4·1	270	4·7	275	5·4
18	255	6·8	240	6·0	245	6·7	240	6·6	235	6·0	235	6·6	230	6·6	205	6·3	225	8·3	230	8·1	245	8·5	250	7·1
19	345	6·7	355	10·0	355	10·0	355	8·4	5	7·8	10	10·0	15	10·8	360	9·4	5	9·5	355	8·6	350	10·1	355	11·1
20	5	7·3	5	5·5	360	7·0	360	6·2	355	6·5	360	6·0	360	5·0	355	5·4	345	5·9	330	5·3	330	6·1	305	4·9
21	275	2·2	270	1·8	275	1·8	265	1·8	270	2·2	265	3·5	270	3·8	265	3·8	255	4·0	240	4·0	240	5·0	260	4·5
22	—	…	270	3·0	280	4·5	290	4·6	285	3·9	280	3·5	285	3·3	285	3·0	305	3·8	300	3·6	290	3·5	280	3·9
23	245	1·4	220	1·7	205	1·6	205	1·4	250	1·7	260	2·2	255	2·2	255	2·5	260	2·4	270	2·3	270	2·9	275	2·9
24	60	1·1	65	1·4	65	1·0	—	…	—	…	55	1·1	—	…	—	…	60	2·4	15	3·3	65	3·6	40	4·1
25	—	…	240	1·1	240	1·2	175	3·0	175	3·5	170	4·5	160	4·8	185	3·7	190	4·7	180	5·5	180	5·3	180	5·8
26	175	5·3	180	5·5	175	5·9	180	5·9	190	5·5	195	5·3	195	6·1	195	6·0	190	5·8	190	5·9	195	5·5	195	6·5
27	200	7·3	195	7·2	200	6·4	200	5·1	210	4·5	200	4·7	210	5·5	225	5·5	220	4·5	240	4·7	245	5·1	250	4·6
28	260	3·1	270	2·5	305	3·5	305	2·6	315	2·9	340	4·7	330	5·6	335	5·9	335	5·9	335	(6·0)	330	(5·8)	325	(5·3)
29	350	5·0	350	2·9	345	3·2	360	2·0	340	3·3	340	3·4	350	2·8	315	2·3	340	4·0	345	4·0	335	3·5	325	3·3
30	—	…	85	1·5	80	1·2	75	2·1	70	1·1	60	1·1	75	1·0	165	1·8	165	4·4	175	4·5	180	5·3	180	6·0
Mean	—	4·2	—	4·2	—	4·4	—	4·3	—	4·2	—	4·5	—	4·7	—	4·7	—	5·4	—	5·8	—	6·1	—	5·8
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = **17** metres + **13** metres.

May, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
270	2·6	270	1·0	—	...	360	2·7	55	5·0	55	5·3	55	5·0	60	6·5	55	6·2	50	6·0	55	4·8	55	4·0	3·0	1
10	6·3	5	6·1	360	7·5	335	8·7	340	9·1	350	8·0	10	6·0	10	6·2	20	6·0	10	6·0	10	6·8	10	4·9	6·1	2
345	8·6	345	9·0	350	8·9	340	8·8	345	8·1	350	6·8	345	8·1	340	6·8	355	5·9	345	5·3	345	5·9	345	5·7	5·5	3
285	5·3	280	5·4	280	5·4	275	5·3	280	3·5	275	5·7	275	5·8	275	3·8	270	4·9	245	6·2	235	3·9	210	4·6	4·7	4
175	7·0	170	4·5	—	...	—	...	260	2·1	320	2·3	295	1·7	—	...	—	...	—	...	—	...	360	1·0	3·4	5
260	1·5	260	1·8	265	3·8	290	3·7	320	2·9	290	2·7	310	1·8	—	...	—	...	—	...	—	...	—	...	2·5	6
195	3·9	185	4·5	185	2·3	340	2·8	5	2·0	335	4·0	330	2·9	—	...	—	...	—	...	—	...	—	...	1·9	7
275	3·0	280	2·4	280	2·2	235	3·9	235	3·5	205	4·0	170	4·1	·155	3·9	170	3·6	175	2·3	170	3·4	160	5·2	2·1	8
180	9·1	180	9·0	180	8·9	180	8·7	185	8·3	185	7·9	185	7·8	185	7·4	185	7·0	185	8·0	180	7·5	175	7·9	8·0	9
215	4·2	200	4·5	175	4·5	175	5·1	180	6·5	175	6·6	180	7·0	195	6·5	205	5·8	195	6·1	205	10·8	225	8·7	7·2	10
225	8·0	230	7·9	230	8·0	230	7·9	230	7·3	230	7·1	230	6·0	210	4·5	195	4·0	165	4·5	170	4·5	170	4·5	6·4	11
180	10·3	180	9·9	180	9·6	185	9·3	180	8·3	190	10·4	185	8·8	185	10·2	185	10·9	180	10·8	180	10·6	185	10·9	8·6	12
205	12·6	205	12·4	210	11·6	210	11·0	210	10·8	205	10·9	210	11·1	210	11·4	210	11·1	220	10·8	225	11·0	225	11·5	9·9	13
230	10·5	230	10·2	225	9·5	225	9·4	225	8·9	225	8·4	225	7·5	225	7·5	225	6·9	230	6·2	230	4·4	225	5·0	9·3	14
265	3·7	270	3·8	275	4·7	275	4·6	275	4·9	275	4·1	275	3·9	280	2·2	280	2·6	—	...	—	...	—	...	2·7	15
305	4·1	305	5·0	310	5·4	310	5·6	315	5·5	315	5·6	340	5·1	345	4·6	355	3·8	355	1·9	—	...	—	...	2·5	16
270	4·0	290	2·2	275	3·1	270	3·7	270	3·3	270	2·7	270	1·4	—	...	—	...	—	...	—	...	—	...	**1·6**	17
300	4·3	285	4·6	290	3·9	300	4·7	305	5·5	310	4·8	310	3·5	310	1·5	—	...	—	...	310	1·0	—	...	2·5	18
315	5·5	310	5·5	305	4·8	310	4·7	320	4·9	310	4·5	330	4·9	330	4·1	—	...	—	...	—	...	—	...	3·6	19
165	9·2	165	9·0	160	9·5	160	9·9	155	8·9	160	9·9	150	8·8	145	9·9	150	10·3	150	10·6	145	10·9	140	11·1	6·3	20
110	11·9	110	12·6	110	13·1	105	11·0	105	10·0	145	11·8	180	11·8	185	11·8	185	9·3	180	6·5	170	5·5	160	4·9	**10·0**	21
125	6·8	115	6·1	105	7·8	105	8·6	105	9·0	105	6·4	110	8·6	100	8·5	105	8·5	100	8·9	95	7·6	150	7·8	6·2	22
160	8·3	160	8·7	155	8·5	155	6·4	150	6·8	150	7·2	145	7·7	145	6·5	150	6·9	150	5·6	150	5·0	150	4·2	7·2	23
180	13·2	185	12·0	190	11·7	195	11·1	195	10·6	195	9·8	195	9·8	200	10·1	200	11·2	200	9·9	205	9·5	205	9·3	9·1	24
190	6·6	200	7·0	200	9·1	195	8·7	190	8·0	190	7·7	185	6·2	180	5·0	180	5·3	175	3·7	170	4·9	165	4·1	8·0	25
185	9·0	185	7·9	190	8·0	185	7·2	180	6·8	180	6·1	175	6·0	160	5·4	160	5·0	155	5·0	155	4·8	145	4·4	5·7	26
90	2·3	115	2·0	255	4·2	250	2·8	340	3·2	55	4·9	55	3·7	55	1·3	55	3·0	55	3·8	60	4·1	60	5·0	3·6	27
160	5·0	170	5·9	175	7·1	180	7·5	180	7·7	170	6·6	165	5·4	140	4·1	140	5·0	140	6·7	145	7·4	145	7·5	5·5	28
95	5·5	110	7·0	100	7·7	80	7·7	90	6·5	105	6·6	105	5·9	105	5·8	125	6·5	100	7·1	90	5·5	80	5·5	6·8	29
200	4·9	235	5·4	280	3·9	285	3·0	330	1·5	335	1·7	5	2·4	25	3·5	30	1·5	—	...	330	1·0	—	...	2·9	30
360	7·4	330	6·8	325	6·8	335	7·7	320	6·6	320	6·0	330	4·6	335	5·1	310	3·0	305	1·2	—	...	330	2·8	4·4	31
—	**6·6**	—	6·5	—	6·5	—	6·5	—	6·3	—	6·3	—	5·9	—	5·4	—	5·1	—	4·7	—	4·7	—	4·7	5·4	

June, 1931.

°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
275	3·3	265	3·9	275	4·6	270	4·4	270	3·6	275	2·4	270	1·4	—	...	—	...	165	2·1	170	2·7	155	4·0	2·8	1
190	7·9	190	7·9	190	8·2	185	7·9	190	6·8	195	6·8	200	6·5	190	7·2	185	7·1	190	7·0	190	7·4	190	7·7	6·7	2
175	8·2	165	6·2	170	6·0	145	4·9	115	4·1	110	3·8	105	4·8	80	5·7	125	5·8	125	9·4	110	8·8	140	9·5	6·0	3
125	8·0	145	6·2	140	7·0	110	7·1	130	8·7	85	9·8	105	8·3	125	8·1	95	8·2	100	8·0	120	5·4	140	5·8	8·5	4
105	4·9	115	5·0	110	5·1	105	4·1	140	3·6	160	4·5	160	3·0	150	1·6	185	2·3	180	3·1	185	3·5	195	3·2	4·3	5
230	5·5	225	5·7	220	6·0	215	6·9	215	6·6	215	5·4	215	5·5	200	4·6	185	3·7	180	4·2	180	3·8	180	3·7	4·7	6
65	3·0	10	2·4	300	3·7	270	4·6	265	4·6	255	5·2	260	5·6	250	4·9	225	3·4	230	4·4	230	5·2	230	5·0	4·1	7
230	8·0	230	7·2	225	6·7	215	6·4	220	6·8	210	6·2	190	4·9	190	5·3	175	4·4	160	2·7	145	2·6	110	2·8	5·8	8
230	5·0	225	3·5	260	1·9	265	1·7	275	1·8	270	2·0	—	...	215	1·3	190	3·0	170	3·1	180	5·3	175	5·8	3·4	9
195	9·8	205	10·3	210	9·8	235	8·6	270	6·8	285	5·6	275	5·5	275	6·0	265	5·4	270	6·7	265	5·0	250	4·8	8·0	10
45	2·4	30	2·2	—	...	345	3·3	335	5·0	330	1·7	310	1·6	310	3·3	350	4·4	330	1·6	335	3·3	340	2·6	3·0	11
270	3·7	275	3·9	270	3·7	275	3·8	275	3·5	285	2·2	285	1·1	—	...	—	...	—	...	—	...	55	1·4	2·3	12
150	5·3	150	4·9	140	3·7	100	3·9	130	4·5	115	5·6	135	5·0	105	4·1	105	4·5	90	3·8	80	3·8	75	4·2	4·0	13
320	10·0	320	9·3	320	8·4	310	7·5	300	6·4	290	6·7	290	6·6	280	5·9	275	6·2	270	6·2	255	6·0	230	4·9	6·5	14
195	14·0	195	13·4	200	11·8	210	13·0	210	11·8	210	9·5	210	7·4	200	5·4	205	5·6	200	5·4	195	5·6	200	7·5	9·0	15
235	6·9	235	6·9	230	7·0	230	7·1	230	6·8	225	5·6	230	5·4	230	4·1	225	2·7	195	2·9	200	2·1	150	1·3	5·7	16
270	6·3	270	7·0	270	7·8	270	7·1	270	6·9	270	6·4	270	6·7	275	5·7	265	7·4	255	6·9	255	7·1	255	5·4	4·3	17
235	7·2	225	8·1	255	7·8	255	7·3	260	7·1	250	5·5	260	4·2	260	1·1	300	2·5	345	3·0	360	2·2	355	4·2	6·0	18
355	10·2	355	10·5	360	11·0	360	9·5	10	9·6	5	8·9	360	8·8	10	8·2	10	9·0	10	6·8	10	6·6	10	7·6	**9·1**	19
295	4·9	285	4·5	275	4·8	280	5·3	275	4·3	250	2·5	240	1·7	265	3·6	270	4·1	260	3·0	270	1·9	280	2·6	4·7	20
270	4·7	280	4·8	280	4·7	275	4·5	275	4·0	265	3·5	255	3·4	265	2·7	270	2·0	275	1·9	295	1·3	—	...	3·2	21
295	4·1	305	4·0	295	3·8	305	4·7	290	4·0	295	3·4	295	3·0	310	2·6	320	1·0	265	1·1	265	1·5	270	1·8	3·1	22
275	3·1	270	2·1	270	2·5	275	2·3	270	2·4	265	1·5	265	1·3	250	1·0	220	1·6	175	1·5	—	...	50	1·2	**1·9**	23
330	4·8	335	5·5	325	4·9	265	2·0	260	2·4	270	1·1	260	1·0	255	1·0	—	...	—	...	—	...	—	...	1·9	24
190	6·0	185	6·0	185	5·2	180	5·0	180	5·0	180	4·3	175	4·7	175	4·1	175	3·9	175	4·2	180	4·1	170	5·0	4·1	25
190	6·5	185	7·6	180	7·4	190	6·3	200	6·5	200	6·2	195	5·9	205	6·2	205	6·0	195	5·2	175	5·6	190	5·3	6·0	26
220	5·0	230	4·5	220	4·6	230	4·6	215	3·5	230	2·6	225	3·5	210	3·8	210	4·1	210	3·9	215	3·7	235	3·5	4·7	27
315	(5·3)	320	(5·8)	320	(6·1)	320	(6·5)	325	(5·8)	325	5·5	325	5·5	330	5·3	345	4·9	335	4·9	345	4·3	340	4·9	4·9	28
320	4·5	330	5·3	325	5·5	315	4·5	325	4·0	330	4·4	335	3·4	345	2·0	—	...	—	...	65	1·0	—	...	3·3	29
185	5·2	205	5·0	195	4·4	205	4·9	200	4·5	195	4·7	190	4·6	180	4·4	185	3·5	230	2·4	200	2·1	200	1·6	3·2	30
—	**6·1**	—	6·0	—	5·8	—	5·7	—	5·4	—	4·8	—	4·4	—	4·0	—	4·0	—	3·9	—	**3·8**	—	4·0	4·8	
13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day

Direction expressed in degrees from North (E=90°, S=180°, W=270°, N=360°) : Speed in Metres per second.

419. Cahirciveen (Valentia Observatory) : Dines Anemograph from Jan., 1926.

H_a (height of anemograph above M.S.L.) = Height of ground above

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	205	1·5	200	1·3	200	1·4	200	1·0	205	1·0	40	1·1	305	2·1	295	2·2	280	2·1	270	1·9	270	3·6	270	5·1
2	265	5·7	285	4·9	295	5·5	300	5·1	300	4·3	300	5·0	305	5·3	300	5·5	300	4·0	290	4·8	275	5·0	285	4·9
3	215	4·6	205	4·4	195	5·5	180	6·8	195	6·6	210	7·7	205	7·7	215	8·0	225	9·0	245	7·0	250	5·8	255	6·0
4	210	5·9	220	5·4	215	5·3	220	5·2	205	5·4	205	5·4	215	6·9	230	7·5	220	8·7	230	8·1	225	7·8	225	8·2
5	185	3·2	195	2·3	—	...	—	...	—	...	—	...	—	...	—	...	270	1·4	275	3·3	280	3·8	310	4·4
6	305	2·3	345	1·4	—	...	—	...	—	...	—	...	360	2·6	325	3·2	330	4·6	325	5·3	15	4·0	325	4·9
7	360	8·4	355	7·7	355	8·0	350	8·9	350	9·3	345	9·1	345	8·7	345	8·5	355	7·9	350	7·9	345	7·4	340	7·7
8	300	4·7	310	3·7	305	3·3	310	3·1	310	2·4	310	2·3	300	2·5	295	2·4	295	2·6	310	2·2	300	2·4	290	2·5
9	45	1·0	—	...	—	...	—	...	60	1·3	55	1·8	—	...	—	...	—	...	280	1·1	290	1·5	275	2·7
10	90	2·7	100	1·3	120	1·6	110	1·5	105	1·0	170	1·0	165	1·0	—	...	280	1·0	275	2·9	280	3·8	280	3·1
11	175	2·7	175	2·7	175	3·5	175	3·1	170	2·7	155	2·1	165	3·4	175	4·2	180	4·3	165	3·7	170	3·7	175	3·6
12	275	6·1	275	5·0	255	3·3	230	2·4	195	2·5	190	2·9	200	3·2	230	3·9	230	4·5	235	4·5	235	4·6	235	5·2
13	190	4·0	210	3·8	195	3·8	190	4·0	185	3·5	195	3·5	210	3·6	220	4·6	230	4·6	235	4·5	225	5·4	205	5·3
14	270	4·1	275	4·5	295	2·5	280	1·6	275	1·4	260	1·0	240	3·3	255	2·8	270	3·3	270	3·0	270	3·8	295	3·1
15	345	3·7	355	3·2	350	3·5	355	3·4	355	2·5	355	2·2	350	4·4	345	6·6	335	8·2	335	8·2	335	7·7	335	7·9
16	270	4·5	270	5·0	280	3·1	275	4·0	270	4·8	260	4·6	260	4·7	255	4·6	245	4·2	215	4·7	245	5·9	260	5·5
17	225	4·3	230	5·0	220	4·7	215	4·8	225	6·4	215	7·5	215	8·5	220	10·8	225	11·5	230	11·3	230	10·8	230	9·9
18	280	5·7	275	5·6	275	5·6	265	3·2	265	4·1	255	4·1	230	4·2	225	4·4	205	4·8	200	4·9	230	3·5	260	3·2
19	310	5·5	295	6·0	295	6·7	290	5·6	290	6·3	295	6·2	300	6·7	295	5·9	290	6·8	300	8·1	290	8·9	290	9·0
20	350	6·5	360	6·7	355	5·8	360	4·9	360	5·1	360	4·6	360	4·8	10	5·0	330	4·5	320	6·4	335	5·7	290	9·0
21	230	1·7	190	2·1	125	1·3	105	1·3	170	3·6	175	3·7	180	4·1	190	4·9	180	6·6	175	6·9	200	5·3	255	4·0
22	180	7·6	180	6·9	185	6·6	195	8·8	190	7·6	190	7·5	180	8·5	185	9·0	185	9·9	190	10·1	190	10·5	195	12·3
23	230	4·9	245	4·8	215	4·0	235	4·7	195	3·5	210	3·1	225	4·2	230	4·4	240	4·9	235	5·4	230	6·7	225	6·9
24	180	6·0	175	5·6	185	6·1	180	6·9	185	7·6	165	8·8	170	10·1	170	10·1	170	10·2	170	9·7	185	8·3	210	5·7
25	330	6·2	335	5·7	330	5·5	325	7·5	320	9·4	320	9·5	320	9·8	320	9·3	320	8·3	320	6·9	325	7·2	315	5·6
26	65	1·3	65	2·2	65	1·7	65	1·4	—	...	—	...	—	...	320	1·7	295	2·2	305	3·0	305	4·1	320	6·0
27	285	4·9	285	5·2	285	5·4	300	6·9	320	8·3	325	7·3	330	5·8	310	6·3	315	6·3	310	7·8	305	6·5	305	6·4
28	310	6·2	290	5·5	290	5·8	290	5·2	300	4·9	285	5·4	285	5·4	300	5·3	295	5·3	285	5·2	285	5·6	290	5·9
29	200	7·2	205	8·2	200	8·0	205	7·5	200	9·4	205	9·1	200	9·6	205	10·0	210	8·6	215	8·9	225	9·0	225	6·4
30	270	4·0	265	3·8	265	4·0	315	4·1	290	3·7	280	1·9	285	2·4	270	3·6	260	1·9	270	3·5	265	2·6	270	3·1
31	180	2·8	220	2·7	185	1·8	175	2·8	170	1·2	165	1·2	165	1·0	165	2·3	175	2·2	190	1·8	190	2·2	205	2·6
Mean	—	4·5	—	4·3	—	4·0	—	4·1	—	4·2	—	4·2	—	4·7	—	5·1	—	5·3	—	5·6	—	5·6	—	**5·7**

420. Cahirciveen (Valentia Observatory) : H_a = **17** metres + **13** metres.

Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	—	...	—	...	60	1·3	—	...	—	...	45	1·1	—	...	—	...	40	1·5	350	2·9	325	4·9	325	5·5
2	—	...	—	...	350	2·7	15	3·0	15	1·3	—	...	20	1·8	40	2·3	30	2·7	345	4·0	335	4·9	330	6·0
3	55	2·3	75	3·3	55	3·2	45	3·8	55	5·9	40	5·6	65	7·8	60	8·5	45	7·4	45	5·8	20	6·6	10	4·7
4	70	4·7	55	4·0	40	6·5	60	2·4	15	1·8	50	3·5	35	5·3	50	7·4	65	6·1	65	6·8	65	8·5	65	8·4
5	70	2·1	110	1·9	—	...	100	2·0	35	1·0	360	1·3	—	...	300	1·1	260	1·0	65	2·4	45	2·9	50	4·0
6	350	4·6	340	5·3	345	5·5	345	5·5	340	7·7	350	5·6	345	6·3	340	7·4	340	7·5	335	7·2	350	7·5	345	7·2
7	355	3·7	10	4·1	20	3·8	30	2·0	65	1·0	—	...	—	...	—	...	275	2·2	295	1·9	280	3·3	290	3·1
8	360	5·8	345	8·4	5	7·7	10	8·5	360	9·3	360	11·0	5	9·0	5	10·0	5	9·7	10	9·6	360	10·2	360	12·4
9	10	7·6	5	7·1	350	5·0	350	5·5	345	5·7	330	7·0	340	6·9	345	5·7	335	5·0	335	5·7	340	5·4	335	6·5
10	320	5·6	320	6·6	325	6·7	325	6·7	315	6·2	320	6·6	320	6·0	305	5·5	320	5·3	320	7·1	325	8·1	325	8·7
11	335	4·7	340	4·6	345	4·7	350	3·8	350	1·4	350	3·1	335	2·3	320	2·6	290	3·1	275	3·0	275	4·4	275	4·6
12	—	...	—	...	—	...	275	1·5	275	1·0	270	1·1	270	1·5	270	2·3	270	1·6	—	...	270	2·9	270	3·1
13	150	4·6	150	4·1	145	4·7	150	4·8	150	5·1	150	5·2	155	5·2	140	6·0	140	6·7	145	6·2	145	6·8	140	8·4
14	115	10·3	130	8·0	130	7·5	180	7·3	210	8·0	205	7·5	195	6·0	195	6·9	190	7·0	195	7·2	190	7·2	185	8·0
15	140	8·3	150	9·1	130	11·6	110	11·4	170	7·6	180	8·3	175	8·7	175	9·3	175	10·6	170	10·9	165	11·6	165	11·4
16	190	7·0	185	6·0	195	6·1	230	5·4	225	4·8	250	4·5	265	5·6	265	7·2	270	7·5	275	6·8	275	7·9	270	8·8
17	270	5·2	265	5·6	260	6·0	255	5·9	250	5·3	235	5·1	255	6·6	260	5·1	265	5·3	265	5·3	265	5·8	265	5·6
18	175	3·5	180	3·4	185	3·3	180	3·2	180	3·5	180	3·5	175	3·7	200	3·7	205	4·2	225	4·9	225	5·3	210	5·0
19	90	9·9	90	9·5	95	7·9	110	4·3	165	4·0	180	4·3	200	3·5	200	3·9	205	4·0	215	4·2	325	7·0	315	8·5
20	285	10·9	285	11·6	285	10·6	280	11·4	285	12·0	295	11·7	310	11·3	315	11·1	310	10·3	315	10·0	320	10·0	320	10·5
21	310	4·5	295	4·6	300	5·5	315	5·1	310	2·8	305	2·3	305	3·2	295	3·2	310	4·5	320	5·2	295	4·3	280	4·3
22	—	...	—	...	55	1·5	60	2·4	80	4·4	85	4·8	80	4·8	80	5·1	70	6·9	65	7·1	60	6·9	55	6·0
23	55	3·0	60	2·9	80	3·5	90	3·6	55	2·3	70	3·5	90	5·0	85	4·5	70	3·5	60	4·2	60	5·2	65	4·9
24	75	7·9	85	4·8	85	7·3	85	7·3	85	7·3	80	8·2	75	6·9	70	7·0	60	8·1	55	8·9	50	8·8	50	8·2
25	75	2·0	80	2·3	70	2·1	65	2·9	65	2·9	—	...	—	...	—	...	—	...	—	...	285	1·4	300	2·2
26	40	2·3	—	...	85	1·9	—	...	115	4·0	95	4·7	100	4·9	110	5·4	115	6·0	130	6·0	130	5·7	150	9·1
27	130	9·5	130	9·5	135	9·3	135	9·4	130	9·8	130	10·9	125	9·6	135	11·3	135	11·5	130	9·3	130	7·6	120	9·6
28	105	9·0	100	9·3	105	9·8	95	7·0	100	8·4	105	8·2	100	6·8	90	6·1	90	6·3	85	5·6	85	4·5	100	5·4
29	85	3·8	90	4·4	80	4·4	75	4·0	75	4·6	70	6·3	70	5·7	55	4·0	70	3·6	55	3·9	115	3·3	90	5·1
30	—	...	195	1·0	360	1·0	—	...	235	1·1	—	...	—	...	—	...	—	...	30	1·4	—	...	275	1·0
31	—	...	—	...	—	...	—	...	60	1·6	55	1·7	200	1·2	—	...	30	2·2	270	1·5	265	2·5	215	3·8
Mean	—	4·7	—	4·7	—	4·9	—	**4·6**	—	4·6	—	4·8	—	4·8	—	5·0	—	5·2	—	5·4	—	5·9	—	6·5
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes, centred at exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 17 metres + 13 metres.

July, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
265	5·5	270	6·4	250	5·6	235	5·2	230	4·8	230	5·6	220	5·6	220	6·2	225	6·9	220	7·7	225	7·2	240	5·5	3·9	1
285	4·2	265	4·0	270	4·5	260	4·1	265	4·1	230	3·4	225	4·0	195	4·7	190	5·1	190	5·7	200	5·8	210	5·2	4·8	2
250	5·7	225	6·9	225	6·4	220	7·0	220	6·3	210	6·2	210	6·7	215	5·4	205	5·7	205	6·0	210	6·1	210	6·8	6·4	3
230	8·2	230	7·2	230	7·3	230	7·4	230	6·4	220	5·6	225	4·5	210	3·8	175	3·4	175	4·0	170	3·5	170	4·0	6·1	4
315	5·1	315	5·8	330	5·7	325	5·7	325	5·9	325	5·0	315	4·5	315	3·7	315	1·9	—	...	—	...	—	...	2·8	5
315	6·5	330	7·1	340	7·7	335	7·6	335	8·2	335	8·1	345	8·3	355	7·7	355	6·8	360	6·8	360	7·4	360	6·6	4·8	6
340	6·6	340	7·7	335	8·0	330	7·1	325	7·5	320	6·1	325	6·7	315	4·5	305	5·3	320	5·1	325	5·1	315	3·7	7·3	7
275	3·2	300	2·7	285	2·5	275	3·0	315	2·8	305	2·5	325	3·3	340	3·0	10	1·4	70	1·0	55	1·0	60	1·9	2·6	8
275	3·0	275	3·4	280	1·6	275	1·9	230	2·8	185	3·2	190	2·4	175	1·4	140	1·4	—	...	—	...	65	1·0	1·0	9
275	4·1	280	3·9	280	4·5	280	3·9	265	3·6	225	5·2	195	4·5	240	4·1	205	3·0	180	3·6	170	3·5	170	3·4	2·8	10
200	2·5	210	2·3	60	3·8	70	4·1	50	1·2	70	4·2	75	4·7	255	1·7	335	3·7	340	2·2	305	1·0	285	4·1	3·1	11
240	5·5	255	4·8	270	4·9	270	5·0	275	4·7	275	4·1	270	3·6	250	2·5	245	2·5	210	2·5	200	3·3	190	3·8	4·0	12
190	5·3	185	5·0	195	5·5	230	5·6	220	4·9	235	3·5	280	3·4	300	3·0	300	1·8	300	1·0	275	4·0	275	5·0	4·1	13
310	4·0	310	5·2	330	6·8	335	7·1	340	7·0	335	6·7	335	7·0	335	5·6	335	5·1	350	4·2	355	4·1	350	3·7	4·2	14
320	7·2	315	6·7	305	5·4	300	4·9	290	4·8	290	4·3	280	4·1	275	3·7	280	4·2	275	4·5	270	4·0	265	4·1	5·0	15
260	5·5	260	6·3	260	6·5	265	6·9	280	6·7	290	5·4	290	5·1	295	5·7	295	4·5	275	3·9	280	4·0	260	3·4	5·0	16
245	11·1	255	11·0	260	10·9	265	9·6	270	8·4	275	7·8	280	8·0	285	8·1	290	7·9	290	7·8	290	6·1	285	6·0	8·2	17
260	2·9	260	3·5	250	4·6	260	5·6	265	5·3	270	4·1	300	5·6	320	6·7	320	5·8	310	5·1	295	6·1	300	6·3	4·8	18
290	9·0	290	9·2	310	8·6	325	9·5	325	9·4	325	9·3	330	8·6	330	7·8	330	7·2	345	7·8	345	6·8	345	6·8	7·6	19
300	5·0	305	5·0	285	5·2	300	5·9	315	5·5	320	5·9	325	4·8	325	4·8	345	2·5	345	1·1	—	...	—	...	4·8	20
240	2·8	220	4·8	225	5·2	215	5·1	225	4·8	185	5·4	185	6·0	185	5·4	170	4·9	170	6·0	185	6·5	180	7·4	4·4	21
200	12·7	205	12·4	215	10·9	220	9·7	225	8·5	225	7·8	215	5·8	220	5·5	215	5·2	220	4·9	225	4·9	220	4·5	8·3	22
230	6·3	250	5·2	230	7·2	230	6·8	220	6·2	210	5·8	205	5·4	185	4·5	185	4·8	180	4·5	180	4·8	175	5·8	5·2	23
220	6·2	220	5·4	215	5·3	210	5·4	240	6·3	250	6·8	270	6·1	270	4·1	270	3·8	285	5·5	290	5·6	305	5·7	6·7	24
290	5·4	300	4·6	285	4·5	285	4·7	305	3·8	270	2·8	260	2·5	260	2·6	260	1·1	—	...	140	1·5	—	...	5·3	25
310	4·4	285	5·3	280	4·3	285	4·6	300	4·9	295	4·5	295	4·6	300	5·1	290	4·1	275	3·2	270	4·5	280	5·1	3·2	26
305	6·5	305	6·6	305	7·9	315	7·8	310	8·1	305	7·3	305	6·9	305	6·8	305	6·8	305	6·2	300	6·6	305	6·7	6·7	27
295	5·6	295	4·9	275	4·2	280	4·4	260	3·6	230	4·7	225	4·7	205	4·6	200	4·8	200	5·2	200	6·2	200	6·7	5·2	28
245	5·2	245	5·0	240	5·5	235	5·5	250	5·7	265	3·7	260	4·4	255	4·5	255	4·6	255	4·5	260	4·6	265	4·2	6·7	29
270	4·6	275	4·0	260	2·1	260	2·3	260	3·3	255	3·9	260	3·6	260	2·0	250	2·1	190	2·4	180	2·5	180	2·2	3·1	30
310	2·3	320	1·3	360	1·2	345	2·0	340	3·2	330	3·6	350	1·5	280	2·0	—	...	—	...	—	...	—	...	1·9	31
—	5·6	—	5·6	—	5·6	—	5·7	—	5·4	—	5·2	—	5·1	—	4·6	—	4·2	—	4·0	—	4·2	—	4·2	4·8	

August, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
320	4·9	315	4·2	315	4·1	315	4·5	320	5·0	315	4·4	320	3·9	345	3·0	—	...	—	...	—	...	—	...	2·3	1
325	6·4	325	7·2	350	6·6	360	6·5	360	5·9	345	5·5	340	6·6	345	4·2	140	1·7	45	3·2	100	1·2	140	1·6	3·6	2
15	5·2	50	5·9	55	6·3	60	5·9	55	5·3	25	5·3	40	2·2	55	3·9	65	3·7	60	6·9	55	6·8	85	5·0	5·2	3
70	7·5	25	2·6	25	6·3	360	5·6	55	4·0	60	3·8	55	5·2	65	4·6	5	1·0	85	2·6	75	5·0	—	...	5·0	4
40	4·0	30	4·9	360	7·3	360	6·1	20	6·5	5	5·2	300	1·8	300	2·9	290	2·4	—	...	310	2·1	330	3·0	2·8	5
335	8·0	350	8·9	360	7·7	340	8·0	340	8·0	340	7·3	330	7·0	325	4·4	330	2·7	340	4·7	10	3·0	5	3·7	6·3	6
285	3·2	280	2·5	290	3·1	305	4·2	310	3·1	320	3·5	325	4·4	305	3·6	330	5·4	335	5·4	340	7·0	5	7·2	3·2	7
360	12·2	355	12·3	360	11·0	360	10·4	5	10·5	5	10·6	360	9·5	5	9·5	5	9·0	360	8·1	10	7·6	10	8·2	9·6	8
335	5·6	345	5·9	335	6·1	320	6·6	325	5·8	350	5·8	330	4·4	330	5·3	335	5·8	330	4·5	320	4·5	320	5·9	5·9	9
325	9·2	325	9·0	325	9·0	325	9·8	330	9·1	330	9·5	335	7·0	335	6·0	335	5·6	340	5·6	350	4·1	345	4·1	7·0	10
280	4·9	275	4·7	275	4·1	270	3·3	275	3·7	275	2·9	275	2·1	315	1·3	325	1·3	270	1·4	265	2·4	280	1·0	3·2	11
270	3·5	260	4·2	230	5·2	230	5·3	230	5·1	225	3·5	200	2·6	165	3·4	170	3·8	165	3·5	160	2·7	150	4·0	2·6	12
140	8·0	150	10·2	150	9·5	135	7·5	125	8·5	115	9·2	115	9·3	115	9·5	110	8·2	105	11·5	105	11·8	115	13·1	7·5	13
185	9·0	185	8·7	185	8·6	185	8·2	185	8·0	180	7·0	170	6·4	155	5·6	150	5·7	150	5·7	150	7·1	145	7·4	7·5	14
165	11·7	160	11·8	160	11·8	165	12·8	160	12·1	165	11·2	165	10·4	165	10·1	170	8·8	170	9·0	170	10·0	170	7·9	10·3	15
270	9·3	270	9·0	275	7·9	270	7·7	270	7·7	265	7·2	265	7·5	265	7·3	265	6·6	270	5·5	270	4·3	270	5·0	6·8	16
265	5·1	255	5·2	240	5·9	235	5·9	230	4·8	235	4·5	235	3·7	205	2·6	180	3·4	180	3·4	175	3·6	170	3·4	5·0	17
200	5·3	190	5·2	185	4·9	195	4·8	195	4·0	180	3·0	135	3·8	120	4·6	105	5·5	105	7·9	75	4·4	85	8·0	4·4	18
295	8·3	300	10·1	300	10·9	290	9·1	280	9·0	275	9·6	275	10·4	270	11·6	270	10·2	270	10·9	270	10·5	275	11·4	8·0	19
320	10·1	320	10·2	325	9·9	325	9·2	325	9·8	330	9·1	335	8·0	335	8·9	330	8·6	330	7·4	325	5·7	310	5·4	9·9	20
270	4·6	290	4·2	325	3·7	305	4·5	310	4·6	320	4·2	295	1·6	—	...	—	...	—	...	75	1·0	55	1·0	3·4	21
55	5·3	40	5·2	45	5·0	25	6·1	30	5·8	40	5·9	50	5·5	70	5·1	85	5·4	85	5·8	85	4·7	55	2·5	4·7	22
80	4·9	70	4·9	70	4·6	70	5·2	75	5·4	80	5·0	70	4·5	85	5·0	90	5·3	80	6·3	80	7·2	80	8·6	4·6	23
50	7·9	45	8·3	45	7·4	45	6·8	45	7·0	45	5·7	55	3·9	50	2·8	60	2·1	65	2·8	65	4·9	80	4·6	6·5	24
265	2·9	270	3·1	270	3·0	270	2·7	270	2·9	275	1·6	—	...	—	...	30	1·0	30	1·0	40	2·2	40	1·1	1·8	25
135	6·7	145	6·9	145	7·3	130	8·6	135	9·8	140	9·5	140	8·5	130	8·7	130	9·3	130	9·1	130	9·9	130	11·5	6·3	26
135	9·9	135	9·5	125	10·6	130	11·4	140	10·0	120	10·5	120	10·4	110	11·3	120	10·9	120	9·9	120	8·7	110	8·8	10·0	27
105	10·0	105	7·6	95	5·7	100	5·5	115	3·6	140	3·3	40	3·3	85	3·0	100	4·8	85	4·2	100	4·1	95	3·4	6·1	28
85	6·1	85	5·6	80	4·9	115	2·7	55	2·5	105	2·4	—	...	55	1·1	360	1·5	80	1·2	—	...	—	...	3·5	29
260	2·4	260	3·4	265	3·6	265	3·4	260	2·2	255	1·6	—	...	—	...	—	...	—	...	—	...	180	1·4	1·2	30
175	5·0	190	5·1	170	6·0	170	5·7	175	6·3	160	5·3	150	3·6	135	5·3	150	6·7	135	6·7	135	5·9	110	4·8	3·4	31
—	6·7	—	6·7	—	6·7	—	6·6	—	6·3	—	5·9	—	5·1	—	5·0	—	4·8	—	5·0	—	5·0	—	5·0	5·4	
13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day

Direction expressed in degrees from North (E=90°, S=180°, W=270°, N=360°): Speed in metres per second.

421. Cahirciveen (Valentia Observatory): Dines Anemograph from Jan., 1926.

H_a (height of anemograph above M.S.L.) = Height of ground above

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	125	6·4	140	7·9	125	7·4	130	7·3	150	6·4	160	4·8	160	3·0	170	3·5	170	3·6	215	3·6	220	4·6	215	5·5
2	165	3·7	175	3·8	180	3·7	185	3·6	170	3·7	170	3·1	165	3·6	160	4·0	160	4·7	180	5·5	200	1·6	160	4·2
3	—	...	15	3·5	5	2·2	25	1·7	30	2·8	25	4·0	25	7·2	30	9·0	30	9·8	30	9·6	25	10·9	25	10·2
4	355	9·4	355	9·3	350	10·5	360	10·0	5	9·6	5	10·5	360	11·3	5	10·0	5	10·6	360	10·5	355	10·8	350	11·1
5	355	8·7	360	6·8	355	8·3	355	7·9	360	6·9	360	7·2	360	7·4	10	5·2	350	6·3	360	5·7	340	7·3	330	7·8
6	360	3·7	355	1·7	30	2·2	50	2·3	45	1·8	55	1·9	55	1·1	55	1·0	35	2·1	25	2·8	15	3·5	330	3·6
7	40	2·2	60	1·0	55	1·8	360	1·2	40	1·2	45	2·0	50	3·4	60	2·5	50	1·9	55	3·5	40	4·9	45	3·7
8	—	...	105	1·4	135	1·1	360	1·5	55	2·8	80	2·7	80	2·6	55	2·5	55	1·7	80	2·3	70	2·0	65	1·5
9	—	...	50	1·6	50	1·9	—	...	—	...	50	1·9	60	1·4	90	1·3	50	2·0	30	3·2	70	3·3	45	3·6
10	—	...	—	...	—	...	—	...	—	...	70	1·0	—	...	—	...	40	1·0	10	3·5	350	4·3	345	4·2
11	355	4·6	345	3·0	350	2·0	360	2·0	350	1·8	345	3·0	350	2·5	350	2·4	330	2·6	300	3·8	295	4·8	285	5·0
12	260	9·0	255	10·0	260	10·3	275	8·0	280	8·0	280	6·8	280	7·9	280	7·6	285	9·7	285	10·0	295	9·4	305	8·9
13	350	3·0	350	1·2	315	1·4	—	...	—	...	—	...	—	...	—	...	—	...	300	1·5	305	1·8	265	3·5
14	270	1·7	—	...	—	...	270	1·2	—	...	255	1·8	—	...	270	1·6	270	1·0	—	...	—	...	230	1·5
15	200	1·1	—	...	—	...	—	...	160	2·0	45	1·0	—	...	125	1·0	115	1·2	170	1·9	175	3·0	175	3·1
16	155	4·8	155	4·2	165	4·6	175	4·2	180	4·7	180	3·5	180	4·8	185	5·8	185	6·8	190	6·6	195	7·4	200	8·1
17	215	8·0	220	6·4	230	6·5	235	6·7	245	6·4	255	5·8	255	5·1	255	4·6	255	4·6	260	2·4	265	2·4	260	1·7
18	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...
19	355	1·3	—	...	—	...	340	1·8	—	...	315	2·7	—	...	340	2·9	340	3·8	330	3·9	335	4·6	5	4·7
20	50	2·9	40	4·6	55	4·8	35	2·3	40	2·8	55	3·6	45	3·8	75	5·6	65	6·6	50	7·4	60	5·5	55	4·8
21	—	...	—	...	—	...	—	...	—	...	—	...	60	1·0	—	...	55	3·0	55	3·7	45	4·2	40	4·5
22	—	...	—	...	55	1·6	—	...	50	1·1	65	2·4	95	3·6	70	2·6	75	4·0	75	3·2	85	2·4	50	1·7
23	55	1·2	—	...	—	...	65	1·2	70	1·0	—	...	—	...	60	1·3	55	1·2	45	1·6	320	1·7	250	2·5
24	80	1·0	100	3·2	110	3·6	95	4·6	85	4·8	80	4·3	—	...	20	1·0	40	2·1	65	2·1	—	...	325	1·5
25	110	4·9	110	4·1	90	2·4	100	2·5	80	2·6	75	3·0	90	4·2	100	4·3	85	3·1	95	4·6	95	4·9	100	4·6
26	125	2·8	120	3·2	120	4·5	120	3·5	285	2·0	—	...	95	3·2	90	3·6	110	2·1	105	2·3	95	2·5	90	2·0
27	30	1·9	55	1·3	65	1·2	70	2·1	40	2·8	50	2·0	50	1·7	—	...	—	...	45	2·0	55	3·7	55	2·9
28	—	...	—	...	—	...	65	1·6	60	1·4	65	1·7	85	1·2	95	1·0	60	2·1	90	1·4	180	3·3	175	5·0
29	155	5·4	165	4·6	180	5·2	185	5·6	185	6·1	190	6·6	180	7·5	180	8·3	185	8·2	185	8·2	180	8·9	190	9·7
30	240	5·5	270	4·3	275	4·6	280	4·9	280	5·0	280	4·6	280	4·5	275	5·4	275	5·4	270	5·4	265	5·5	265	5·9
Mean	—	3·2	—	3·1	—	3·1	—	3·0	—	3·0	—	3·1	—	3·2	—	3·3	—	3·8	—	4·4	—	4·4	—	4·6

422. Cahirciveen (Valentia Observatory): H_a = 17 metres + 13 metres.

Day	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	190	3·6	190	3·6	180	4·8	195	5·2	200	5·8	195	6·7	180	7·4	190	8·9	190	10·3	205	9·6	215	9·8	225	9·7
2	200	9·1	205	9·7	205	9·6	210	10·0	215	11·7	220	10·8	290	7·4	310	2·6	290	4·7	265	4·9	260	6·3	265	5·2
3	265	3·3	230	3·3	225	3·3	200	3·1	180	2·7	—	...	170	1·1	125	2·9	170	3·9	175	5·4	175	8·5	175	9·9
4	190	6·8	190	6·4	190	5·8	200	7·3	200	6·8	195	6·6	195	6·0	195	4·4	190	5·4	175	5·5	180	5·5	190	8·0
5	175	8·4	180	8·2	185	7·8	185	7·8	180	7·4	180	7·7	180	6·7	180	7·5	180	7·3	180	7·4	180	6·9	180	7·0
6	180	7·4	185	7·0	185	6·0	200	6·5	190	5·5	170	7·1	175	6·4	185	8·0	210	8·9	265	6·0	240	4·1	235	4·8
7	240	6·7	220	6·4	250	7·0	260	8·4	260	9·8	265	6·4	270	8·8	280	7·3	255	6·4	255	8·4	265	9·8	260	10·3
8	240	9·6	250	8·9	240	7·2	230	6·9	230	6·9	230	6·5	215	6·7	215	7·7	205	7·4	205	8·2	205	9·3	200	9·7
9	185	12·6	190	12·5	195	10·8	195	11·1	200	13·1	195	11·5	190	11·6	190	11·3	195	12·3	225	8·6	210	2·3	190	3·0
10	—	...	—	...	—	...	355	1·0	35	1·1	40	1·0	40	1·6	40	1·6	40	1·0	185	3·0	210	3·4	220	4·1
11	185	4·1	190	4·7	195	4·8	185	4·4	190	4·4	180	4·6	180	4·8	180	4·5	190	4·4	190	4·7	200	5·5	210	6·7
12	185	6·3	185	8·3	185	7·7	195	8·2	190	7·8	185	8·2	190	8·6	185	8·6	190	9·7	185	9·8	185	9·3	280	7·8
13	355	4·8	355	5·0	355	5·1	350	5·0	355	4·5	355	4·2	355	4·4	350	4·1	350	4·8	350	5·0	345	6·0	330	6·7
14	—	...	—	...	—	...	—	...	—	...	75	1·2	80	1·0	60	1·0	—	...	—	...	50	1·2	60	3·2
15	90	3·7	95	3·6	65	3·4	70	3·4	95	4·0	100	3·6	110	4·7	90	4·5	80	3·5	120	4·2	120	3·0	125	4·2
16	120	5·2	120	6·3	105	4·5	115	4·2	105	3·8	85	2·8	75	2·6	145	3·4	90	5·1	110	7·6	95	6·1	90	4·8
17	115	7·5	105	6·9	100	5·6	90	5·7	80	3·5	75	2·4	105	2·7	80	2·6	75	1·8	60	3·6	60	4·5	85	3·5
18	35	1·4	20	1·6	35	1·3	90	2·9	85	2·4	80	2·4	100	3·4	105	5·2	80	3·5	90	2·7	100	4·2	105	3·9
19	85	4·2	140	2·8	120	3·0	310	2·0	55	3·2	80	2·0	50	1·0	—	...	—	...	50	1·1	—	...	—	...
20	35	1·4	—	...	45	1·0	50	1·2	50	2·4	30	1·7	—	...	20	1·6	—	...	20	2·0	10	3·4	5	4·4
21	80	6·5	75	7·6	85	6·9	80	6·8	80	7·2	65	7·5	65	7·1	65	5·9	65	6·0	70	4·6	75	5·2	75	5·7
22	100	8·3	90	5·9	85	4·9	95	6·0	90	5·8	85	6·0	80	6·4	75	6·0	60	5·0	90	6·4	100	7·0	95	6·4
23	85	6·0	80	6·3	75	7·1	75	6·7	75	6·8	70	7·0	70	4·2	70	3·8	80	4·0	65	4·8	60	4·5	60	4·3
24	25	9·9	30	10·6	35	11·4	45	8·0	45	8·4	40	8·7	40	10·5	45	7·1	60	7·8	50	9·3	60	8·9	50	8·0
25	60	3·6	60	4·2	80	3·8	70	4·1	65	4·4	65	4·7	50	3·0	325	1·0	80	3·3	45	5·4	50	5·9	45	5·8
26	—	...	55	1·0	50	1·5	50	1·7	50	2·0	50	2·1	55	2·4	50	2·0	—	...	50	1·4	175	3·1	180	4·8
27	175	4·6	200	2·9	205	2·0	190	3·2	200	3·5	225	2·5	155	2·2	60	1·1	185	3·6	195	4·1	210	5·0	200	5·2
28	245	4·5	240	4·8	245	5·6	255	6·1	265	6·4	270	6·2	290	5·8	340	4·0	355	2·8	335	3·3	315	3·1	305	2·7
29	260	4·7	265	3·0	270	1·5	265	2·7	280	1·6	240	2·4	245	3·9	255	4·3	250	5·4	250	6·1	250	7·5	255	7·0
30	255	5·8	250	5·2	250	5·1	255	4·6	265	3·2	255	2·7	265	1·9	245	1·4	255	1·5	250	2·1	260	3·2	260	3·6
31	170	7·7	175	6·9	185	7·5	185	7·9	185	7·7	185	7·4	180	5·7	170	7·8	175	8·6	175	8·4	175	8·0	175	8·4
Mean	—	5·5	—	5·3	—	5·1	—	5·2	—	5·3	—	5·0	—	4·9	—	4·6	—	4·9	—	5·3	—	5·5	—	5·8
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 17 metres + 13 metres.

September, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
215	5·6	215	6·2	185	5·7	180	7·2	175	7·5	165	6·3	170	6·0	180	5·4	190	4·2	180	3·4	180	3·1	165	4·0	5·4	1
165	4·8	185	3·7	185	4·2	180	3·0	250	1·6	—	...	—	...	—	...	—	...	—	...	55	1·3	—	...	2·9	2
20	9·4	10	9·3	360	10·2	360	9·9	5	9·7	5	10·1	355	9·8	355	9·5	360	8·8	360	9·1	360	8·0	360	9·0	7·5	3
350	11·9	350	12·8	355	11·6	350	13·1	350	12·9	355	11·8	355	9·9	355	9·0	350	8·9	350	7·7	350	7·8	350	8·1	10·4	4
330	7·6	330	7·8	340	8·0	340	8·3	350	7·5	345	7·4	355	5·6	355	5·4	360	5·6	355	5·2	355	4·0	355	4·5	6·8	5
320	4·6	315	4·9	315	5·4	330	5·8	330	6·8	350	5·3	360	4·0	40	2·6	40	1·6	60	2·2	45	1·4	60	1·9	3·1	6
45	4·4	30	5·0	30	6·5	45	6·4	50	6·1	60	6·0	85	5·0	85	4·8	165	1·4	75	1·4	125	2·0	15	1·3	3·3	7
40	1·4	30	2·3	10	2·5	350	2·6	70	2·4	65	3·4	75	2·8	80	4·0	140	3·1	155	3·3	150	2·8	—	...	2·3	8
65	3·5	45	2·7	20	4·0	360	4·1	360	4·3	25	4·5	40	3·6	50	2·6	40	2·5	55	1·6	60	1·7	35	1·7	2·4	9
320	5·0	325	5·4	325	6·8	330	7·2	335	7·3	335	6·7	345	4·9	340	3·7	340	2·8	345	2·2	355	2·6	360	3·9	3·1	10
285	5·3	285	5·3	285	5·2	270	4·1	270	4·2	270	5·2	295	6·0	300	5·5	280	3·5	220	3·7	240	7·0	255	8·7	4·1	11
320	9·6	320	8·9	315	8·7	320	7·5	320	7·5	330	5·6	335	6·1	340	6·3	335	5·7	340	4·4	340	4·1	350	3·4	7·8	12
285	3·0	265	2·1	—	...	—	...	265	2·1	310	1·8	310	1·4	305	1·5	—	...	280	1·2	255	1·9	265	1·7	1·4	13
220	3·0	210	1·7	250	2·3	265	2·4	265	1·6	—	...	—	...	—	...	—	...	—	...	—	...	—	...	1·1	14
190	3·1	210	2·9	215	2·7	165	5·0	160	5·1	160	3·9	170	4·7	175	3·4	155	4·2	180	3·1	165	4·5	160	5·0	2·7	15
205	7·6	205	7·2	200	6·9	200	6·1	195	6·7	195	7·1	200	7·2	200	7·1	195	6·3	195	6·4	195	6·3	205	7·9	6·1	16
270	2·4	270	1·7	260	1·3	250	1·1	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	3·1	17
—	...	285	1·0	—	...	270	1·0	—	...	270	1·0	330	1·6	—	...	—	...	—	...	—	...	—	...	0·6	18
360	3·8	320	4·9	345	5·3	350	4·3	350	5·4	30	3·8	45	2·3	80	3·8	40	4·0	35	2·6	35	2·7	40	1·0	3·0	19
40	3·0	45	3·5	40	2·6	40	3·2	55	2·6	20	1·7	65	1·5	—	...	60	2·5	—	...	—	...	—	...	3·2	20
50	5·8	35	5·1	30	3·9	20	5·2	25	5·3	50	3·0	80	4·3	65	3·4	55	1·3	15	1·0	—	...	—	...	2·5	21
75	1·9	110	1·8	140	1·7	245	2·5	215	3·4	210	1·8	195	1·0	—	...	70	1·2	—	...	—	...	50	1·6	1·7	22
250	2·9	250	2·6	240	3·2	235	2·3	240	1·3	—	...	160	2·0	80	3·8	70	2·8	70	5·0	60	2·0	130	1·0	1·8	23
120	2·7	110	4·2	120	4·1	110	3·8	110	3·5	115	4·3	110	4·4	110	4·3	120	3·8	115	4·5	110	4·4	110	4·2	3·2	24
120	4·1	135	4·3	125	2·6	105	2·2	125	2·0	150	3·1	150	3·3	145	2·2	135	2·7	110	3·2	120	2·5	—	...	3·3	25
90	1·8	275	1·6	—	...	265	1·0	—	...	165	2·6	155	2·9	145	1·7	—	...	55	1·9	25	2·6	10	1·7	2·1	26
50	1·7	315	2·9	315	4·1	315	2·8	290	1·8	—	...	—	...	—	...	—	...	—	...	—	...	—	...	1·7	27
175	5·5	170	6·0	170	5·0	165	3·6	155	3·6	140	2·9	150	3·5	135	4·2	155	4·6	145	4·1	150	5·0	155	5·6	3·0	28
185	9·6	185	9·0	180	9·1	190	10·0	190	10·6	190	10·1	180	7·5	180	8·8	180	9·6	185	9·3	185	9·9	195	9·4	8·1	29
265	5·6	270	5·3	275	5·2	285	5·1	295	4·5	285	2·6	290	4·1	285	2·2	285	1·8	275	3·2	245	3·1	210	3·0	4·6	30
—	4·7	—	4·7	—	4·7	—	4·7	—	4·6	—	4·1	—	3·9	—	3·6	—	3·2	—	3·1	—	3·1	—	3·1	3·7	

October, 1931.

°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
220	10·1	220	10·3	215	10·1	215	10·6	215	10·3	215	10·0	215	9·6	215	9·3	220	8·5	210	9·0	220	9·5	205	8·5	8·3	1
280	6·1	275	6·2	280	5·9	270	4·4	260	4·8	275	5·5	275	4·5	260	5·4	255	5·4	245	5·4	240	5·5	245	5·4	6·6	2
170	9·1	170	9·2	170	9·2	170	9·6	180	8·8	185	7·2	195	7·8	190	7·6	190	6·6	180	7·2	180	6·3	190	5·5	5·9	3
200	7·3	200	7·2	205	8·5	200	7·8	195	8·8	195	8·6	190	7·9	180	8·0	185	8·1	180	7·4	175	8·0	175	8·3	7·0	4
185	6·6	180	6·7	180	7·1	175	6·9	175	7·1	180	7·2	180	5·8	180	5·8	175	6·1	175	6·5	175	6·9	175	8·0	7·1	5
255	5·7	255	6·1	260	5·4	265	5·4	275	4·8	275	4·6	265	6·2	270	5·9	260	7·5	270	6·5	260	6·2	260	6·7	6·2	6
265	9·9	265	9·3	265	8·6	260	9·4	260	9·4	260	9·0	260	7·1	250	7·4	250	6·8	235	7·4	230	9·1	235	10·0	8·2	7
200	9·9	200	11·9	200	11·2	200	10·5	190	9·3	185	9·6	190	9·8	190	10·0	185	10·6	185	11·2	190	11·2	185	11·6	9·2	8
215	3·4	245	3·6	270	3·6	290	3·6	295	3·4	300	1·3	310	1·6	—	...	—	...	—	...	—	...	—	...	6·2	9
225	5·0	220	5·2	225	5·0	220	4·9	210	4·9	200	3·8	190	4·0	190	4·2	190	4·0	200	4·3	230	4·5	195	3·9	3·0	10
210	6·1	210	5·3	205	5·3	200	5·2	190	4·3	180	2·1	150	4·2	160	4·6	185	4·5	190	4·3	185	6·4	190	6·0	4·8	11
350	7·3	350	7·9	355	6·8	360	6·5	340	7·5	340	7·0	345	6·1	350	6·3	350	5·6	345	5·4	350	5·4	345	4·2	7·4	12
340	6·7	335	7·7	345	6·3	355	6·0	10	5·1	5	4·5	10	3·0	50	2·1	50	2·4	55	2·9	50	2·2	90	1·0	4·6	13
40	4·2	60	2·8	50	1·8	55	2·7	75	2·9	130	2·2	130	1·3	100	1·3	90	3·6	90	4·5	90	4·0	85	4·7	1·9	14
145	6·1	135	5·5	140	4·7	115	3·7	105	3·9	110	4·1	105	4·4	100	4·7	80	3·3	90	3·6	95	3·6	120	4·6	4·1	15
95	3·5	90	3·6	85	2·9	95	4·0	80	3·9	50	2·0	90	3·3	85	4·5	360	1·1	—	...	70	1·6	105	4·4	3·8	16
85	4·3	75	3·8	70	3·4	60	3·4	70	2·4	70	1·3	90	3·5	70	2·9	85	2·8	95	3·0	90	2·1	80	2·0	3·6	17
105	3·6	110	3·5	115	2·7	105	3·0	100	3·6	85	3·5	85	3·7	95	4·2	90	4·0	100	3·5	90	3·7	80	3·7	3·2	18
—	...	—	...	40	1·9	50	2·2	25	1·8	20	1·2	—	...	—	...	—	...	—	...	—	...	—	...	1·4	19
350	3·0	30	5·5	65	8·8	70	5·6	80	7·7	70	9·1	60	9·6	60	8·7	70	10·0	70	10·0	75	7·6	85	6·4	4·6	20
65	6·1	70	6·5	65	5·8	65	5·4	100	5·0	90	4·4	80	5·7	75	7·8	70	6·8	70	6·4	75	6·9	95	8·6	6·3	21
85	4·7	100	5·5	90	5·0	100	6·1	95	4·7	100	4·4	85	3·8	80	3·3	85	3·9	85	4·4	85	4·6	80	5·1	5·5	22
55	5·3	55	4·6	60	5·8	50	6·1	55	4·9	55	4·8	50	4·7	50	5·8	55	5·4	50	5·1	50	6·3	35	9·2	5·5	23
30	8·1	35	7·4	35	7·1	35	7·1	35	6·2	45	4·1	40	3·5	50	4·4	70	4·6	65	4·1	55	4·2	60	3·7	7·3	24
55	4·0	40	5·0	40	5·4	40	4·6	50	2·7	60	3·0	50	2·6	50	2·7	75	2·4	—	...	40	1·8	60	1·3	3·6	25
185	5·4	180	5·0	180	5·2	185	4·0	180	3·4	180	4·6	170	4·7	175	4·5	180	4·0	175	1·6	180	2·8	170	5·4	3·0	26
225	4·3	210	3·5	245	5·4	240	5·0	240	4·6	250	4·5	250	4·6	235	4·0	230	3·6	240	3·7	215	3·4	210	3·3	3·8	27
280	2·5	270	3·8	310	3·5	315	2·3	305	2·0	—	...	—	...	—	...	180	1·0	—	...	260	1·6	260	3·5	3·2	28
250	7·8	250	7·5	250	7·6	250	7·1	250	7·5	255	5·6	250	6·5	245	6·6	250	7·3	250	8·1	250	8·2	245	7·5	5·6	29
265	2·5	260	2·0	265	1·1	190	2·3	160	4·0	150	4·4	145	4·2	150	4·7	160	4·9	160	5·4	170	7·0	170	7·4	3·8	30
175	9·4	180	8·8	180	8·5	175	7·6	175	7·4	175	7·4	175	7·8	170	8·3	170	8·0	170	8·0	165	7·9	170	8·5	7·9	31
—	5·8	—	5·9	—	5·8	—	5·6	—	5·4	—	4·9	—	4·9	—	5·0	—	5·0	—	4·9	—	5·1	—	5·5	5·2	
13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day

Direction expressed in degrees from North (E=90°, S=180°, W=270°, N=360°): Speed in Metres per second.

423. Cahirciveen (Valentia Observatory): Dines Anemograph from Jan., 1926.

H_a (height of anemograph above M.S.L.) = Height of ground above

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	170	9·3	170	9·2	170	9·6	170	10·7	165	12·3	165	11·9	165	12·1	170	10·0	165	11·1	165	11·6	165	11·9	170	10·9
2	180	11·3	180	10·8	180	11·1	175	11·1	175	10·6	180	11·1	180	9·7	185	11·0	190	11·2	190	9·7	180	8·1	185	9·2
3	185	10·7	185	13·3	190	15·2	210	15·4	210	14·1	205	13·4	210	11·4	200	9·9	195	8·3	180	5·8	185	5·1	165	6·2
4	230	9·0	230	10·0	225	9·9	220	11·1	225	11·6	225	13·0	235	11·6	255	11·4	230	9·0	235	9·9	265	10·1	265	8·8
5	175	4·9	180	4·5	175	4·9	195	4·5	180	4·8	180	5·1	165	5·1	165	4·8	170	4·8	160	5·5	160	7·0	165	7·9
6	195	5·3	200	5·5	190	5·0	200	4·6	190	4·7	200	5·2	195	4·8	190	4·5	195	3·5	220	4·9	215	6·1	240	6·6
7	130	3·3	140	4·8	135	4·9	135	6·0	135	6·8	130	6·4	110	6·2	100	7·3	105	8·1	100	8·2	105	8·9	100	8·0
8	50	6·6	60	7·6	50	6·5	45	6·1	40	6·6	20	6·5	20	5·4	25	5·4	25	5·8	30	5·5	10	5·0	350	6·5
9	165	7·5	145	10·0	160	12·5	210	9·1	215	7·7	225	8·5	220	6·2	230	6·3	230	6·9	220	6·2	215	7·6	220	7·9
10	215	9·6	210	8·8	210	9·4	215	9·8	210	9·7	230	9·9	240	8·9	215	6·3	200	6·8	225	7·5	240	9·0	240	8·6
11	275	7·3	265	8·2	255	6·3	245	6·7	260	5·7	295	4·8	315	4·1	305	3·0	290	4·2	290	2·9	275	3·7	280	3·9
12	310	7·6	315	8·0	305	6·6	310	7·6	300	7·0	300	6·5	300	5·8	300	6·5	310	7·4	315	7·0	320	6·5	315	8·5
13	175	5·2	180	5·2	180	5·1	190	5·5	190	4·9	185	5·7	180	7·1	175	8·0	175	9·5	175	10·5	170	12·4	170	13·5
14	270	4·6	275	3·7	275	3·3	270	4·3	285	3·2	290	4·0	270	3·8	270	3·5	260	1·6	245	1·1	205	2·2	240	3·1
15	45	2·1	—	...	—	...	—	...	45	1·0	—	...	45	1·1	45	1·0	—	...	—	...	—	...	—	...
16	—	...	—	...	—	...	120	2·2	140	4·5	140	5·1	145	5·1	140	5·3	140	5·8	150	7·0	160	7·8	155	8·2
17	165	9·1	165	9·1	170	9·3	170	9·7	170	9·5	170	9·4	170	9·5	170	10·6	170	11·0	170	11·1	170	11·1	170	11·2
18	185	13·1	190	12·8	200	12·5	225	10·2	245	8·1	245	6·6	270	6·2	295	5·2	280	4·7	260	4·8	225	2·5	195	2·8
19	190	8·1	205	4·8	200	5·9	205	6·0	200	7·2	225	6·7	215	5·5	225	6·2	220	4·1	215	5·4	205	5·4	195	3·8
20	55	1·8	55	2·3	100	1·7	40	1·6	40	1·5	—	...	40	1·8	65	2·1	65	1·5	65	1·6	185	4·2	215	7·2
21	255	7·4	260	9·2	235	7·0	230	5·7	235	6·6	235	6·4	230	6·0	225	6·2	235	6·4	190	3·8	270	4·5	265	4·7
22	165	4·9	165	4·6	160	4·4	150	5·8	155	6·9	155	7·2	155	6·5	155	7·5	155	7·7	145	10·1	140	11·0	140	11·1
23	200	4·7	185	4·7	190	4·2	175	4·5	170	5·0	165	4·2	120	1·6	45	2·1	40	2·8	20	1·0	35	3·3	45	3·8
24	65	1·8	180	4·5	180	6·0	180	6·5	185	8·3	180	10·0	185	10·2	180	10·6	190	10·9	185	10·0	190	10·2	195	10·1
25	205	7·1	215	5·5	205	5·9	190	5·4	185	4·9	180	4·1	180	4·6	170	3·8	170	4·0	165	4·6	160	6·1	155	6·3
26	165	11·1	165	13·4	175	14·0	175	11·1	195	10·9	205	11·8	200	11·2	225	9·7	285	6·4	250	6·5	265	8·8	280	4·9
27	260	9·8	270	9·5	265	9·1	265	10·1	270	10·0	275	8·6	270	9·9	265	9·1	260	9·3	255	8·5	250	8·8	250	6·3
28	285	7·0	300	6·1	300	4·3	300	3·6	300	1·8	—	...	170	1·3	260	2·1	250	1·9	265	5·0	—	...	240	3·7
29	345	1·5	290	5·5	290	5·9	290	5·9	300	5·2	305	4·9	300	4·4	295	2·8	300	2·7	280	3·4	270	4·1	280	4·4
30	55	1·0	—	...	—	...	75	1·6	55	1·0	55	1·3	55	1·0	—	...	60	1·0	115	2·1	175	3·9	165	5·0
Mean	—	6·4	—	6·8	—	6·7	—	6·8	—	6·7	—	6·7	—	6·3	—	6·1	—	**6·0**	—	6·1	—	6·5	—	6·8

424. Cahirciveen (Valentia Observatory): H = 17 metres + 13 metres.

	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	185	8·4	185	8·3	185	6·7	185	6·3	190	6·8	190	6·9	190	7·3	195	6·1	190	6·4	190	6·8	190	7·5	195	7·2
2	175	11·2	180	11·1	190	11·5	190	11·5	180	10·8	175	11·7	175	12·6	185	13·0	185	12·6	190	13·3	190	13·7	190	13·9
3	190	16·4	200	17·6	210	18·8	235	15·6	235	12·6	240	13·0	260	15·6	255	15·0	255	13·8	255	14·1	250	13·1	245	12·0
4	235	11·3	245	13·4	255	10·1	250	6·8	220	6·0	200	6·9	205	11·0	225	15·7	230	14·0	240	14·4	245	14·4	250	15·6
5	230	5·6	215	4·1	200	5·9	205	7·0	200	7·9	200	8·7	200	9·2	200	9·5	200	10·0	210	9·9	270	5·1	295	2·1
6	240	9·9	230	6·7	275	8·5	290	3·1	315	2·5	55	3·5	70	4·0	50	1·0	—	...	—	...	—	...	15	4·5
7	70	1·8	60	2·2	55	2·6	70	1·8	100	2·0	100	1·8	130	1·8	175	4·6	185	5·1	210	6·2	210	8·1	205	9·1
8	250	5·8	235	5·8	230	6·0	240	6·2	235	6·8	230	5·7	230	5·7	235	6·4	225	5·2	255	8·1	255	7·4	255	7·0
9	255	5·0	250	4·9	245	5·4	245	5·0	260	6·0	260	4·8	235	3·7	210	3·7	225	4·9	245	5·4	240	5·3	235	5·2
10	230	4·8	235	4·9	250	5·8	255	5·0	250	4·9	240	3·7	250	4·1	245	2·9	255	2·3	220	3·1	225	4·5	220	4·5
11	195	3·1	200	3·0	220	3·5	220	2·9	205	3·0	235	2·7	210	2·2	220	1·7	220	3·0	215	3·2	210	3·5	220	3·5
12	165	2·6	165	2·9	180	2·4	180	2·4	180	2·7	170	3·6	185	2·4	165	3·2	170	2·5	180	2·3	170	2·3	175	2·8
13	155	5·5	155	5·0	150	5·0	140	6·1	145	5·8	145	5·9	150	6·5	150	7·7	145	7·6	160	6·7	185	6·0	180	6·0
14	190	4·1	190	4·7	175	4·3	180	4·2	190	4·1	180	4·0	175	4·8	165	5·0	170	4·2	170	5·3	180	3·3	180	4·0
15	170	2·3	—	...	—	...	—	...	—	...	—	...	—	...	110	3·8	100	3·6	80	1·8	135	1·1	140	1·6
16	140	3·8	155	3·5	150	4·9	135	4·5	140	3·6	140	4·0	140	4·2	140	4·7	145	4·7	140	4·0	145	5·0	160	4·3
17	130	5·9	120	5·4	140	5·4	140	6·5	150	5·3	155	5·2	145	5·0	150	5·3	145	6·4	155	6·6	165	6·0	165	7·1
18	165	8·0	160	9·3	160	8·1	160	7·7	160	8·1	160	6·9	165	6·4	150	6·6	155	6·4	150	6·8	155	5·8	160	5·3
19	175	5·7	185	5·1	185	6·4	180	5·5	185	5·2	180	3·9	185	4·2	185	5·2	180	4·2	180	4·2	180	5·7	175	5·8
20	160	4·0	155	4·2	150	4·4	150	4·6	130	5·0	125	3·4	145	4·7	130	3·6	145	4·3	145	4·7	150	5·3	150	5·6
21	145	5·9	145	5·5	150	5·8	155	7·0	155	7·6	155	7·0	155	6·9	145	6·7	140	6·2	135	7·4	145	7·1	140	7·2
22	175	7·2	175	6·8	165	7·7	165	7·4	170	7·4	165	8·0	170	7·5	165	8·0	165	7·8	165	9·2	170	9·9	170	9·7
23	180	10·3	180	9·8	185	9·1	185	9·7	185	9·4	185	8·8	185	8·5	185	8·0	180	10·0	185	10·6	190	10·7	185	10·4
24	205	10·2	205	10·0	205	10·0	205	10·6	205	10·0	205	10·1	200	9·5	205	9·8	205	10·2	205	10·2	205	10·1	210	10·1
25	225	6·5	220	6·6	220	6·6	225	7·0	225	6·0	220	5·3	225	5·5	235	6·5	230	6·0	235	6·5	245	7·0	250	7·5
26	250	4·6	255	4·7	260	4·2	255	4·7	265	4·0	270	2·8	280	4·1	300	4·6	295	4·1	295	3·9	295	3·9	265	2·5
27	285	3·9	290	4·8	290	4·0	280	2·7	280	4·0	290	4·4	285	5·8	285	4·2	275	4·6	265	5·4	270	5·1	270	4·3
28	260	10·3	255	10·2	260	10·7	255	10·2	260	10·9	260	11·0	265	11·8	310	9·2	295	8·2	295	8·5	305	7·7	300	8·6
29	340	11·6	330	11·4	320	10·6	325	10·4	320	10·7	315	10·6	350	12·0	350	10·4	355	6·6	30	5·9	355	9·0	355	10·0
30	15	7·3	15	7·3	20	7·0	15	7·2	5	7·3	5	8·2	10	9·0	10	7·0	10	4·7	360	4·3	20	4·1	360	5·5
31	—	...	—	...	70	1·0	70	1·0	70	1·7	70	2·1	70	1·7	70	1·2	60	1·4	155	4·6	160	5·5	160	6·3
Mean	—	6·6	—	6·5	—	6·5	—	6·2	—	6·1	—	**6·0**	—	6·4	—	6·5	—	6·2	—	6·6	—	6·6	—	6·7
Annual Mean	—	5·4	—	5·3	—	5·3	—	5·2	—	**5·2**	—	5·2	—	5·2	—	5·3	—	5·5	—	5·8	—	6·1	—	6·2

Averages for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 17 metres + 13 metres.

November, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
170	11·0	175	10·7	175	10·3	175	10·1	180	10·7	175	10·6	175	10·5	175	10·3	175	10·6	175	10·9	175	10·9	180	10·4	10·7	1
180	9·4	185	10·1	185	11·5	185	12·2	185	12·1	185	11·4	190	11·5	190	10·7	195	11·7	200	10·9	200	11·5	190	9·6	10·7	2
215	10·5	215	11·0	200	10·1	205	11·6	220	10·5	195	7·4	180	6·7	185	6·6	165	5·8	160	5·7	175	5·0	210	9·5	9·6	3
285	7·5	270	5·0	260	4·0	210	2·8	170	5·1	155	4·8	160	4·8	190	4·5	180	4·2	180	5·5	175	5·3	180	5·0	7·6	4
165	9·2	160	9·5	165	10·8	160	12·1	160	13·2	160	15·0	175	14·0	180	9·2	180	9·1	185	7·6	175	5·9	200	5·8	7·7	5
195	3·1	205	6·0	205	4·6	190	4·2	185	3·4	325	1·8	220	1·3	220	1·1	50	2·1	50	1·1	125	2·6	120	2·4	4·0	6
100	7·1	100	6·3	95	7·5	50	4·7	55	9·3	50	9·2	100	10·5	100	7·8	90	5·7	85	6·1	75	6·0	70	6·6	6·8	7
5	5·5	15	5·2	10	4·5	10	3·3	—	...	—	...	—	...	95	2·4	50	1·8	145	3·3	155	6·3	160	7·7	4·8	8
210	9·3	210	8·5	215	6·4	190	6·5	180	7·0	200	7·5	205	8·3	200	9·0	200	8·5	205	9·3	200	9·0	210	10·2	8·1	9
245	8·6	225	6·3	235	7·6	235	6·7	240	6·6	265	8·0	275	6·1	285	7·5	275	7·3	285	7·0	280	8·1	285	6·7	8·0	10
290	4·4	285	4·0	300	4·5	315	6·5	320	6·6	325	7·5	325	6·8	320	7·0	320	7·0	320	7·6	310	7·0	310	6·6	5·7	11
310	6·3	295	5·6	330	6·1	300	5·5	300	3·6	290	4·1	285	3·7	245	3·2	185	2·7	180	3·3	170	4·1	180	4·6	5·8	12
170	13·6	170	13·4	175	13·5	175	13·2	175	13·6	180	14·0	210	11·0	205	1·8	180	2·2	190	2·0	250	3·0	245	3·3	8·2	13
255	5·2	265	4·7	295	2·3	260	4·3	175	3·1	45	2·0	45	2·1	45	1·7	—	...	45	1·7	45	1·6	45	2·5	2·9	14
—	...	—	...	260	1·2	—	...	—	...	—	...	30	1·6	50	2·5	50	2·2	50	1·3	55	1·4	60	1·7	1·0	15
165	7·7	165	8·4	155	8·1	165	7·6	160	7·7	160	7·5	155	8·5	155	9·0	165	8·2	160	10·1	160	10·0	160	9·6	6·3	16
175	11·7	170	11·6	175	11·3	175	11·4	175	11·0	175	11·5	175	11·5	180	12·1	175	12·2	175	12·9	175	13·5	180	14·1	11·0	17
195	3·1	225	4·4	200	3·0	195	3·5	195	5·7	170	5·0	175	5·0	170	5·5	175	5·5	190	7·2	190	7·0	185	8·1	6·5	18
205	5·0	180	3·8	160	3·1	40	2·2	—	...	60	1·0	100	2·1	55	2·6	55	1·5	55	1·7	55	2·0	55	2·2	4·1	19
205	7·7	200	8·6	255	9·3	295	7·4	290	8·1	285	7·7	280	7·2	275	5·6	265	7·6	275	7·9	265	8·0	250	6·3	4·9	20
230	3·9	215	5·0	240	7·0	200	4·4	195	4·8	175	4·4	205	3·7	205	4·2	190	4·0	190	4·2	180	4·2	170	4·6	5·4	21
140	11·6	145	11·0	150	11·0	150	12·0	150	12·1	155	14·8	160	14·8	160	15·7	165	17·4	170	15·6	195	12·2	210	6·8	10·1	22
45	4·0	35	4·1	15	5·9	25	5·0	5	4·4	355	4·9	350	4·8	345	1·9	—	...	285	1·3	195	1·2	—	...	3·5	23
200	9·2	200	8·9	200	9·2	200	9·6	200	9·8	205	8·8	205	9·6	200	8·3	200	8·0	200	7·6	200	8·4	210	8·3	8·4	24
155	5·5	175	4·7	155	5·7	170	4·6	175	5·3	170	5·6	170	6·6	165	6·8	165	7·5	160	8·8	165	10·1	165	10·6	6·0	25
260	9·4	270	9·2	255	7·0	275	8·1	270	9·2	260	7·7	225	6·5	210	6·7	220	7·6	220	7·4	230	9·0	260	7·1	9·0	26
250	7·3	250	7·1	250	5·5	250	4·5	195	2·7	235	5·1	275	4·7	275	5·4	285	6·1	300	5·3	310	3·7	285	6·0	7·2	27
245	6·3	240	5·1	190	2·7	190	3·1	190	4·0	190	3·9	175	4·0	185	4·5	275	7·0	325	5·5	355	2·8	50	1·3	3·8	28
270	4·9	275	4·4	285	3·8	280	2·2	—	...	—	...	55	1·3	55	2·4	55	1·5	55	1·6	55	1·5	55	1·2	3·2	29
180	6·3	170	6·0	175	5·2	180	3·8	170	3·8	180	4·8	180	6·2	175	6·5	180	6·5	185	7·5	185	8·3	185	8·5	3·7	30
—	7·2	—	7·0	—	6·8	—	6·5	—	6·5	—	6·6	—	6·5	—	6·1	—	6·1	—	6·3	—	6·3	—	6·3	6·5	

December and Year, 1931.

°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
190	8·2	190	7·9	190	8·6	185	7·9	180	8·5	180	7·5	175	8·5	175	9·1	180	9·7	175	9·5	175	10·5	175	10·9	7·9	1
190	14·1	195	14·0	200	10·9	190	9·4	195	9·9	200	10·8	195	10·0	195	10·8	195	11·7	195	12·7	195	13·5	190	15·3	12·0	2
245	11·7	245	11·1	240	10·4	230	9·3	225	6·8	220	8·4	200	6·6	195	7·2	190	11·1	225	13·3	230	12·5	230	11·9	12·5	3
250	16·0	255	17·6	260	17·2	265	16·9	275	13·0	270	11·9	265	12·3	265	13·0	270	11·4	270	11·0	270	9·0	255	8·2	12·5	4
—	...	25	1·0	135	1·6	90	1·9	180	1·3	220	5·7	250	10·2	260	13·9	260	14·5	265	13·3	260	12·6	250	11·6	7·1	5
335	8·0	345	9·1	345	8·7	355	8·2	360	9·6	360	10·0	360	8·8	5	6·1	360	4·5	20	3·3	40	1·4	65	1·0	5·4	6
210	10·3	210	10·0	210	10·2	205	11·0	195	9·9	200	10·5	205	11·0	210	9·9	270	4·0	255	3·6	260	5·7	270	6·3	6·1	7
270	7·7	280	7·4	275	6·1	285	7·1	295	6·3	305	4·5	290	5·5	285	5·3	280	4·7	270	4·1	255	3·7	255	5·7	6·0	8
240	5·4	240	6·4	235	4·9	255	5·4	250	4·7	250	5·0	230	4·2	215	4·0	220	3·6	225	4·0	230	4·5	235	4·9	4·9	9
225	4·0	225	3·5	230	2·8	225	3·4	225	2·8	225	3·5	205	2·6	185	2·0	190	2·6	210	3·4	185	3·3	195	3·1	3·7	10
220	4·1	225	3·2	215	3·5	200	2·8	190	2·5	200	2·2	200	2·1	185	1·8	190	1·1	190	1·6	—	...	—	...	2·6	11
175	3·3	175	3·6	175	3·8	180	3·5	170	2·0	180	3·2	180	3·2	170	3·2	165	3·7	165	4·3	160	4·9	170	4·1	3·0	12
180	4·8	190	4·5	205	5·4	190	4·8	190	4·5	195	4·5	195	4·3	200	4·4	180	3·6	185	4·6	190	4·0	190	4·8	5·3	13
190	4·1	185	3·5	180	3·8	180	3·5	180	3·3	180	2·6	180	3·3	180	3·0	175	3·3	170	3·8	170	2·3	170	2·6	3·8	14
110	3·2	120	4·2	100	3·3	110	3·0	105	3·1	135	4·2	115	4·2	110	3·6	125	4·0	130	3·5	130	3·7	140	3·9	2·5	15
165	4·1	160	4·1	155	4·9	150	5·0	150	4·5	135	4·8	135	4·1	145	5·1	140	4·3	140	5·9	140	5·4	130	6·0	4·5	16
160	7·5	165	7·7	170	6·2	160	6·3	160	6·7	160	6·5	160	7·4	160	6·5	165	8·0	165	8·5	165	8·6	170	8·3	6·5	17
160	5·2	160	4·7	160	4·8	155	4·4	160	4·1	160	4·9	155	5·6	160	5·5	165	5·1	160	4·9	160	5·0	165	5·4	6·1	18
180	4·8	175	3·8	165	3·5	185	4·5	175	3·8	160	4·0	155	3·4	155	2·9	145	4·1	155	4·7	160	3·3	160	3·5	4·5	19
140	4·9	130	4·6	140	4·1	140	4·8	130	4·5	130	5·4	125	4·7	130	4·4	135	5·1	140	5·0	145	5·6	145	5·9	4·7	20
145	5·6	150	7·1	150	7·0	145	6·3	145	6·1	150	6·9	170	6·0	160	5·6	160	6·6	160	7·5	170	7·7	165	7·5	6·6	21
180	10·3	180	10·1	175	10·1	180	10·0	180	9·8	175	10·7	175	11·5	180	12·3	170	12·3	175	11·8	180	11·7	180	10·6	9·4	22
185	10·4	185	11·1	185	11·5	185	12·4	185	12·1	190	11·1	195	10·8	200	11·3	200	12·3	200	11·2	205	10·6	205	10·3	10·4	23
210	9·7	210	9·0	215	8·9	220	9·8	220	10·0	220	9·8	220	9·5	220	8·1	225	7·6	225	7·0	220	6·9	220	6·9	9·4	24
260	6·5	250	6·0	245	5·8	250	6·2	240	4·4	235	3·3	250	3·8	245	3·8	245	4·0	240	3·8	235	4·0	250	5·0	5·6	25
275	2·5	305	4·0	310	4·8	320	3·7	315	3·4	315	3·1	305	3·3	305	4·3	300	4·1	300	3·9	295	4·1	290	3·9	3·9	26
270	6·8	260	7·6	255	7·4	260	7·8	260	9·7	260	9·2	265	9·1	275	8·4	260	8·9	260	9·3	260	9·4	260	9·4	6·4	27
295	8·1	300	10·0	310	9·1	320	10·7	305	10·1	320	11·2	320	11·0	335	10·3	345	10·1	330	10·0	330	10·5	335	10·5	9·9	28
345	10·4	345	11·0	360	10·8	360	12·0	360	10·5	5	9·7	5	9·1	360	9·8	355	10·6	5	9·1	360	9·1	10	8·2	10·0	29
340	4·1	330	3·7	30	3·0	—	...	—	...	—	...	130	1·3	10	1·2	—	...	50	1·8	90	1·3	100	1·3	4·3	30
170	6·5	180	6·4	180	7·5	180	7·5	180	8·5	185	9·1	205	6·1	215	6·6	210	7·4	215	7·5	220	8·0	215	8·5	4·7	31
—	6·9	—	7·0	—	6·8	—	6·8	—	6·3	—	6·6	—	6·6	—	6·6	—	6·6	—	6·7	—	6·6	—	6·6	6·5	
—	6·4	—	6·5	—	6·4	—	6·3	—	6·1	—	5·9	—	5·7	—	5·4	—	5·3	—	5·3	—	5·3	—	5·3	5·7	

425. Cahirciveen (Valentia Observatory) : $H_a = 17$ metres + 13 metres. **1931.**

Month	Jan.		Feb.		Mar.		April		May		June	
Day.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.
	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.
1	14	15 25	26	1 20	21	4 10	17	4 05	11	20 00	8	1 15
2	9	23 20	16	12 50	11	9 00	20	5 30	13	17 10	13	14 00
3	14	21 10	11	2 50	13	23 35	11	0 50	13	12 25	16	22 15
4	13	1 10	8	0 55	13	3 05	12	23 00	13	22 15	18	2 00
5	11	14 25	22	16 30	20	16 15	14	1 20	11	11 40	11	11 35
6	9	3 55	18	0 00	23	23 40	9	20 15	10	7 35	9	16 30
7	11	15 25	20	23 20	18	1 45	20	11 30	8	11 35	10	10 25
8	9	21 05	18	0 35	18	10 10	11	9 55	7	23 55	12	11 35
9	6	0 50	20	22 05	15	1 05	5	14 50	15	7 50	8	10 55
10	9	22 05	26	6 10	13	11 50	10	10 40	17	8 15	17	7 05
11	16	16 25	27	19 50	11	9 00	17	12 00	13	15 10	9	16 00
12	18	23 45	26	0 10	9	17 10	12	21 05	18	21 10	6	9 55
13	19	0 45	25	10 30	12	4 05	11	0 35	19	13 15	12	11 00
14	11	23 10	16	20 40	13	23 25	8	11 10	18	0 35	15	14 35
15	15	10 25	17	2 15	16	11 10	16	10 55	8	0 10	**22**	12 35
16	18	16 15	27	4 20	**24**	22 35	13	21 55	9	15 15	11	17 30
17	16	7 55	24	0 20	21	0 50	20	17 25	7	12 05	12	23 10
18	12	7 10	14	1 20	18	0 30	17	15 20	9	13 05	15	10 45
19	13	0 40	9	24 00	21	15 55	16	12 35	10	10 55	17	6 40
20	13	20 15	19	10 15	21	10 30	13	3 35	20	23 55	12	2 55
21	13	0 40	21	1 15	14	12 50	9	17 25	**23**	2 40	9	14 00
22	25	17 50	12	4 30	9	1 05	10	12 35	17	16 10	8	4 45
23	27	24 00	10	7 45	10	17 30	12	17 45	16	13 45	6	11 25
24	**29**	1 35	13	16 15	12	13 00	11	0 25	19	13 15	8	14 10
25	23	17 20	12	23 45	18	13 30	13	21 55	17	9 25	9	13 25
26	23	0 20	16	5 35	14	8 05	**20**	16 45	13	12 45	11	13 50
27	22	14 05	13	15 30	10	0 30	16	0 15	9	17 15	10	2 50
28	21	14 25	**31**	10 10	15	20 45	9	3 55	14	22 55	9	19 50
29	23	0 50	—	—	21	3 45	8	15 30	20	8 20	8	14 20
30	12	1 20	—	—	17	12 10	10	16 40	9	13 00	9	12 10
31	27	19 05	—	—	17	22 20	—	—	11	10 30	—	—

Month	July		Aug.		Sept.		Oct.		Nov.		Dec.	
Day.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.
	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.
1	12	21 50	8	11 50	13	3 35	16	11 25	20	5 10	17	24 00
2	12	3 20	10	13 50	10	10 20	19	4 50	20	21 10	22	10 35
3	14	8 50	13	7 25	16	11 10	15	14 15	26	3 35	**28**	2 15
4	13	9 35	12	7 55	**21**	14 40	14	19 40	20	6 25	27	13 45
5	9	16 50	11	14 45	15	2 35	13	23 00	26	18 30	25	19 45
6	11	19 15	13	5 10	9	16 50	13	23 50	13	12 10	17	0 20
7	15	7 40	12	23 45	10	15 30	19	5 30	19	18 20	16	15 40
8	8	0 30	18	5 45	7	19 35	18	23 25	13	1 55	19	10 10
9	5	13 30	12	0 35	7	12 20	**20**	0 35	22	3 10	11	13 05
10	9	19 30	17	17 00	10	16 40	8	15 25	21	0 25	8	3 20
11	8	14 35	8	1 05	14	23 10	11	23 05	12	3 55	8	12 55
12	9	0 30	8	15 35	17	2 15	17	11 55	15	6 25	9	22 10
13	11	23 15	21	23 45	7	0 05	11	13 35	22	14 20	11	8 25
14	10	15 20	21	0 05	5	13 30	7	12 40	10	16 00	8	2 15
15	10	9 20	**22**	17 15	7	16 05	11	12 30	4	21 15	8	18 05
16	11	11 15	13	13 35	12	23 40	11	9 30	15	22 30	11	22 00
17	19	13 00	10	0 25	13	0 20	12	1 30	20	23 05	13	17 00
18	13	23 50	15	21 55	5	18 55	9	8 10	20	1 20	14	2 15
19	16	11 35	19	15 00	9	16 45	7	0 25	16	0 20	10	11 20
20	11	3 10	22	5 40	11	9 40	14	14 40	18	19 15	10	18 15
21	11	24 00	12	4 05	10	11 15	14	23 25	17	2 40	13	10 05
22	**21**	11 45	11	16 15	7	9 30	13	11 05	**26**	17 05	19	20 50
23	11	10 45	12	23 50	8	21 50	14	23 45	9	14 45	20	15 55
24	16	9 00	13	10 35	8	4 00	18	1 45	17	8 45	16	0 25
25	14	6 45	6	0 00	8	13 35	9	11 20	17	23 35	11	10 45
26	10	16 30	22	23 55	7	1 15	9	15 05	22	3 25	9	14 55
27	13	16 50	21	9 35	6	11 40	10	11 30	19	5 10	15	17 30
28	11	0 30	16	12 30	8	14 05	10	6 40	15	20 55	20	21 10
29	15	6 35	10	13 45	19	18 00	13	22 35	11	2 20	26	9 30
30	9	3 40	6	14 50	13	0 05	11	24 00	13	23 40	18	6 55
31	6	1 40	12	20 10	—	—	14	12 50	—	—	14	18 05

DISTRIBUTION OF WIND SPEED: EXTREME VELOCITIES AS RECORDED BY THE DINES TUBE ANEMOGRAPH.

426. Cahirciveen (Valentia Observatory) : $H_a = 17$ metres + 13 metres. **1931.**

Month.	DISTRIBUTION OF WIND.								EXTREME VELOCITIES.							
	More than 17·2 m/s.		10·8 to 17·1 m/s.		5·5 to 10·7 m/s.	1·6 to 5·4 m/s.	0 to 1·5 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.			
	Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Veer from N.	Speed.	Mid Time.		Speed.	Time.		
		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hour.	m/s.	day.	h.	m.
Jan.	31st	1	10	91	313	249	90	0	330	17	31	23	29	24	1	35
Feb.	28th	1	15	137	295	192	47	0	10	20	28	10	31	28	10	10
Mar.	—	—	9	61	417	238	28	0	100	14	6	6	24	16	22	35
Apr.	—	—	6	38	333	273	76	0	325	15	26	16	20	26	16	45
May	—	—	9	43	307	282	112	0	180	13	24	13	23	21	2	40
June	—	—	3	13	260	378	69	0	200	14	15	13	22	15	12	35
July	—	—	2	11	269	389	75	0	200	13	22	13	21	22	11	45
Aug.	—	—	7	37	307	304	96	0	115	13	13	24	22	15	17	15
Sept.	—	—	2	10	156	371	183	0	350	13	4	16	21	4	14	40
Oct.	—	—	4	17	312	342	73	0	200	13	9	5	20	9	0	35
Nov.	22nd	1	12	92	333	234	60	0	165	17	22	21	26	22	17	05
Dec.	3rd, 4th	4	10	86	313	308	33	0	210	19	3	3	28	3	2	15
Year	5 days	7	89	636	3615	3560	942	0	10	20	Feb.28	10	31	Feb.28	10	10

TEMPERATURE IN THE GROUND AT DEPTHS OF 30 CM. (1 foot) AND 122 CM. (4 feet).

427. Cahirciveen (Valentia Observatory). *Readings, in degrees absolute, at 9h Greenwich Mean Time.* **1931.**

Day.	Jan.		Feb.		Mar.		April		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	79·0	81·5	79·9	81·0	78·3	81·0	83·5	82·0	84·2	83·1	87·4	85·1	88·6	87·0	89·0	87·6	89·0	87·8	86·7	86·9	84·8	84·9	81·5	83·0
2	78·0	81·3	80·0	81·0	78·4	81·0	82·6	82·1	83·8	83·2	87·9	85·2	88·8	87·0	89·3	87·7	89·0	87·5	87·0	86·9	85·0	85·0	82·0	83·0
3	77·6	81·2	79·6	81·0	79·0	80·8	81·9	82·1	83·5	83·2	87·4	85·5	88·9	87·0	89·6	87·8	88·8	87·5	87·0	86·9	85·5	85·0	82·6	83·0
4	77·7	81·1	79·2	81·0	80·2	80·8	82·0	82·2	83·4	83·2	88·1	85·5	89·0	87·2	90·0	87·9	87·6	87·6	87·2	86·9	85·2	85·0	82·8	83·0
5	77·5	81·0	79·3	81·0	81·3	80·8	82·8	82·2	83·3	83·3	88·0	85·6	89·0	87·0	90·6	87·9	87·0	87·8	87·5	86·9	84·6	85·0	82·4	83·0
6	78·3	80·8	80·0	81·0	81·8	80·8	82·6	82·2	83·7	83·4	88·0	85·6	89·0	87·2	91·1	88·0	86·9	87·6	87·5	86·9	84·1	85·0	81·9	83·0
7	78·0	80·8	79·0	81·0	79·6	81·0	83·2	82·3	83·9	83·3	88·1	85·9	88·6	87·2	90·7	88·0	86·7	87·5	86·9	86·9	83·9	85·0	81·0	83·0
8	77·9	80·7	80·1	81·0	77·9	81·0	83·0	82·2	84·0	83·3	88·0	85·9	88·0	87·0	90·0	88·1	86·7	87·2	86·6	86·9	83·1	85·0	81·0	83·0
9	78·1	80·6	81·1	81·0	76·9	81·0	83·0	82·3	85·1	83·2	88·4	85·9	88·7	87·1	89·0	88·1	86·8	87·2	86·9	86·9	83·0	85·0	81·2	82·9
10	77·7	80·5	81·0	81·0	76·6	80·9	84·0	82·6	85·2	83·8	88·5	86·0	89·2	87·1	89·1	88·2	86·6	87·1	86·9	86·7	83·2	84·8	81·9	82·8
11	79·0	80·5	80·0	81·0	77·1	80·6	84·2	82·6	85·1	83·9	87·7	86·0	89·8	87·1	88·8	88·2	86·6	87·0	86·2	86·7	83·2	84·7	82·0	82·7
12	79·1	80·5	79·8	81·1	77·9	80·6	83·6	82·9	85·6	83·9	87·6	86·1	89·9	87·2	89·5	88·1	87·1	87·0	86·6	86·7	83·1	84·6	81·9	82·8
13	78·4	80·5	79·4	81·1	78·8	80·2	83·1	83·0	85·6	83·9	88·7	86·0	90·0	87·2	89·9	88·0	87·1	87·0	86·0	86·7	82·9	84·6	81·7	82·7
14	78·3	80·5	79·1	81·0	79·0	80·2	83·5	82·9	85·4	84·0	88·0	86·1	89·8	87·3	89·1	88·0	87·6	87·0	85·4	86·6	83·0	84·5	81·8	82·7
15	78·0	80·4	80·0	81·0	80·0	80·2	84·1	82·9	85·9	84·0	87·5	86·2	89·7	87·7	89·6	88·0	87·7	87·0	85·0	86·5	82·4	84·4	82·0	82·7
16	79·2	80·2	79·9	81·0	80·1	80·4	83·5	83·0	86·0	84·1	87·0	86·2	89·9	87·5	89·1	88·0	88·1	87·0	85·0	86·4	81·9	84·2	82·0	82·6
17	80·0	80·3	78·9	81·0	80·5	80·4	83·4	83·0	86·0	84·2	88·0	86·3	89·6	87·3	89·0	88·0	88·0	87·0	85·0	86·2	82·2	84·0	81·8	82·6
18	80·1	80·5	78·3	81·0	80·5	81·0	82·7	83·0	86·2	84·3	88·0	86·2	89·0	87·6	89·2	88·0	88·0	87·0	85·2	86·2	83·0	84·0	82·0	82·6
19	81·0	80·4	78·0	80·8	81·8	80·6	82·8	83·0	86·4	84·4	87·5	86·2	89·0	87·6	89·0	88·0	88·4	87·1	85·0	86·1	82·7	84·0	82·0	82·8
20	81·0	80·6	79·7	80·8	82·0	80·9	82·5	83·0	86·3	84·6	87·0	86·3	88·8	87·8	88·2	88·0	88·1	87·1	85·0	86·1	81·9	83·9	81·8	82·7
21	80·8	80·9	79·3	80·8	82·3	81·0	82·4	83·0	86·0	84·6	87·5	86·4	88·9	87·5	87·9	88·0	87·8	87·0	84·1	86·0	81·6	83·9	81·2	82·6
22	80·0	80·9	78·8	80·8	82·2	81·1	82·2	83·0	85·2	84·8	87·9	86·2	89·1	87·6	88·1	88·0	87·5	87·1	83·7	86·0	81·1	83·8	81·2	82·6
23	80·5	81·0	79·0	80·6	82·4	81·2	82·6	83·0	85·8	84·8	88·0	86·2	89·0	87·8	87·9	87·9	87·0	87·2	83·8	85·9	81·8	83·6	81·6	82·6
24	79·9	81·0	79·2	80·5	82·0	81·4	82·8	83·0	86·0	84·8	88·2	86·4	89·0	87·8	87·5	87·9	87·1	87·1	83·3	85·7	81·5	83·4	82·1	82·6
25	79·1	81·0	80·6	80·6	81·4	81·5	83·2	82·9	86·1	84·8	89·3	86·4	89·0	87·7	87·3	87·7	87·0	87·0	82·5	85·5	82·0	83·3	82·8	82·6
26	79·2	81·0	81·4	80·6	81·3	81·5	83·8	83·0	86·2	85·0	89·5	86·6	88·9	87·6	87·5	87·7	87·0	87·0	81·6	85·4	82·0	83·2	82·9	82·6
27	80·0	81·0	81·1	80·8	81·8	81·5	83·2	83·0	86·6	84·9	89·0	86·7	88·8	87·7	87·5	87·5	87·0	87·0	81·9	85·1	81·6	83·2	82·8	82·7
28	80·0	81·0	80·0	81·0	80·6	81·6	83·2	83·0	87·2	84·9	89·1	86·9	88·7	87·8	87·4	87·5	87·0	87·0	82·8	85·0	82·3	83·1	82·5	82·9
29	79·6	81·0	—	—	80·9	81·7	83·6	83·0	87·0	85·0	89·0	86·9	88·7	87·6	87·6	87·5	86·8	87·0	83·7	85·0	82·8	83·1	81·4	82·9
30	79·1	81·0	—	—	83·3	81·8	84·2	83·0	86·6	85·0	89·0	87·0	88·9	87·8	88·0	87·3	86·7	87·0	84·0	84·9	81·6	83·1	80·1	82·9
31	80·0	81·0	—	—	83·6	81·8	—	—	87·1	85·1	—	—	89·0	87·6	88·3	87·4	—	—	84·5	84·9	—	—	79·4	82·7
Mean	79·1	80·8	79·7	80·9	80·3	81·0	83·1	82·7	85·4	84·1	88·1	86·1	89·1	87·4	88·9	87·9	87·4	87·2	85·2	86·2	82·9	84·2	81·8	82·8
Year																							84·3	84·3

The initial 2 or 3 of the readings is omitted; *i.e.* 275·0 degrees absolute is written 75·0.

MINIMUM TEMPERATURE "ON THE GRASS" DURING THE INTERVAL 18H. TO 7H. G.M.T.

428. Cahirciveen (Valentia Observatory). *Readings, in degrees absolute.* **1931**

Month.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	71·4	76·5	73·7	81·7	75·3	79·0	84·8	78·0	83·5	80·4	83·2	79·4
2	73·4	78·8	74·8	78·6	76·8	82·5	84·8	81·3	83·7	86·7	85·8	81·5
3	71·4	74·2	77·7	77·3	74·7	85·2	86·3	82·9	80·6	79·5	84·7	81·6
4	76·3	76·4	80·8	74·1	76·2	85·4	82·6	80·9	81·4	87·4	81·2	81·3
5	73·0	74·0	81·8	80·9	75·7	84·7	79·7	84·8	80·3	86·7	77·1	79·2
6	79·1	78·8	79·6	79·8	79·3	81·4	77·0	85·8	74·4	85·4	78·7	76·4
7	72·8	74·8	72·9	81·1	75·8	83·6	82·3	82·5	73·8	79·2	75·2	72·1
8	74·8	80·1	71·1	80·9	**74·1**	85·2	83·0	83·1	**73·6**	83·9	78·5	78·4
9	72·7	79·0	71·2	78·3	82·0	83·3	**75·8**	83·1	80·8	85·9	73·6	78·7
10	73·6	75·2	**68·7**	78·6	84·4	85·9	84·1	84·7	75·0	75·0	80·4	82·7
11	77·6	75·9	74·2	77·6	80·2	**78·6**	82·0	84·3	79·7	80·9	80·3	79·7
12	76·3	77·0	72·7	76·9	80·2	81·3	84·8	85·5	84·1	83·7	78·6	77·9
13	76·4	76·4	76·2	74·6	82·4	79·9	83·0	82·4	83·9	78·8	76·3	78·6
14	**69·9**	77·3	74·6	80·9	82·3	84·7	84·5	85·7	86·3	72·6	76·3	81·8
15	78·6	79·5	77·6	81·3	79·7	82·2	80·8	83·5	83·4	74·3	**71·3**	80·0
16	79·7	75·7	78·0	78·6	76·8	82·3	85·8	85·8	85·2	75·4	73·0	80·9
17	80·2	74·8	79·1	81·3	74·9	78·7	84·8	83·0	86·8	76·8	81·5	80·6
18	79·2	75·2	81·2	77·4	75·5	83·1	84·8	82·3	86·8	81·9	81·3	80·7
19	81·1	**71·5**	81·9	77·4	80·0	81·4	83·2	84·1	82·9	75·2	77·0	80·7
20	79·1	79·6	81·3	78·4	76·0	81·3	82·8	84·1	78·2	75·2	71·9	76·8
21	79·8	74·4	80·8	75·8	82·1	85·0	79·7	80·2	77·4	75·2	76·4	76·1
22	75·6	75·1	78·5	**72·6**	78·9	80·2	86·8	77·4	76·4	77·2	74·8	78·6
23	79·7	75·3	77·7	76·7	81·9	80·8	83·7	76·2	74·6	80·2	80·9	81·5
24	76·9	—	74·1	79·3	81·2	80·8	84·7	78·6	76·9	76·3	73·4	82·7
25	77·1	82·4	77·0	78·2	82·7	78·8	85·9	**74·3**	79·1	70·2	78·6	83·6
26	77·4	82·3	78·9	79·8	79·8	82·4	80·8	74·6	80·3	**67·6**	80·2	79·1
27	79·6	77·9	80·7	79·8	80·3	82·4	83·4	84·7	78·9	75·9	77·4	81·8
28	78·4	74·5	82·4	80·9	84·1	81·3	83·6	85·0	76·6	81·6	84·0	81·8
29	76·7	—	81·6	81·0	81·0	78·9	84·1	84·7	83·1	80·9	76·9	74·6
30	77·3	—	82·7	81·2	77·2	78·7	85·1	80·9	82·4	82·8	72·7	74·3
31	78·9	—	83·0	—	82·4	—	83·9	80·2	—	83·4	—	**70·4**
Mean	76·6	76·8	77·6	78·7	79·2	82·0	83·2	82·1	80·3	79·2	78·0	79·1

NOTES:—(1) The initial 2 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.
(2) The minimum refers to the interval from 18h. the previous day to 7h. on the day to which it is entered.
(3) Annual Mean 274·8°A.
(4) Mean for February is for 27 days only.

429. Cahirciveen (Valentia Observatory). January, 1931.

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	Cu : St-Cu.	Cu : St-Cu.	Cu-Nb : Fr-Cu.	2	2	7	5	3	7	l	m	m	l	l	l	...	...	...	...	...	...	⌴ fine *a* : p ●^{0} p ● *p* : p ●^{0} p ●^{2} *n*.
2	Cu : St-Cu : A-Cu.	A-St : A-Cu.	St : St-Cu.	3	9	9	10	10	10	l	l	l	l	l	l	...	...	...	...	...	...	p ●^{0} to bc *a* : c *p* : o to bc *n*.
3	Cu : St-Cu : A-Cu.	Cu-Nb : Cu.	Cu-Nb : Cu.	8	2	2	3	2	3	l	l	m	m	l	l	...	...	...	...	...	...	⌴ fair *a* : p ●^{0} p ● *p* : p ▲^{0} *n*.
4	Cu-Nb : Cu : A-Cu.	Cu : Ci-Cu : Ci.	A-Cu : Ci-Cu : Ci.	3	5	7	8	9	3	l	l	l	l	k	k	...	...	...	...	...	...	p ●^{0} to bc *a* : c *p* : c to bc ⌓ *n*.
5	St-Cu : A-St.	Cu:St-Cu:Ci-St:Ci.	St : St-Cu : A-St.	10	9	8	9	10	10	l	l	l	l	l	l	...	...	...	...	...	...	⌓ early to c *a* : j p *p* : c *n*.
6	St-Cu:A-St:A-Cu.	Fr-Cu:St-Cu:A-Cu:Ci.	St-Cu : A-Cu.	8	8	8	7	5	9	k	l	l	l	l	l	...	...	...	...	...	...	c *a* : c to bc *p* : bc to b *n*.
7	A-Cu.	St-Cu : A-Cu : Ci.	St : St-Cu : A-St.	6	4	8	8	10	9	l	l	l	l	l	l	...	...	...	...	...	...	⌓ early bc *a* : c *p* : c to bc *n*.
8	A-Cu.	Fr-Cu : Ci-St : Ci.	St : St-Cu : A-St.	3	9	9	10	10	8	l	l	k	k	k	J	...	...	...	...	...	...	bc to c *a* : c *p* : p ●^{0} *n* : ⊕ 13h.
9	Cu : St-Cu : A-Cu.	Cu : St-Cu : Ci.	Cu:St-Cu:A-Cu:Ci.	6	8	5	8	3	9	l	l	l	m	l	k	...	...	...	...	...	...	Fair all day.
10	St : St-Cu.	St : Cu : St-Cu.	St : Cu : St-Cu.	9	10	10	6	2	10	l	l	J	k	k	k	...	...	...	...	...	...	Occasional p ●^{0} : ⌓ *n*.
11	St : A-St.	St : A-St.	St : St-Cu : A-St.	10	10	10	10	10	4	J	l	k	J	h	k	●^{0}	...	...	●^{0}	●	...	i ●^{0} to c *a* : p ●^{0} to continuous ● *p* : p ●^{0} *n*.
12	St:Cu-Nb:Cu:St-Cu.	Cu : Nb.	St:Cu-Nb:St-Cu.	9	6	4	8	5	5	k	l	l	l	l	k	...	...	...	...	●^{0}	...	p ●^{0} p ● p ▲ all day.
13	Cu-Nb:Cu:St-Cu.	Cu : St-Cu.	Cu.	6	5	4	6	3	3	k	l	m	l	l	l	...	...	...	...	...	...	p ●^{0} *a* : bc y *p* : bc to b *n*.
14	Cu : St-Cu.	Fr-St : St-Cu.	St : St-Cu : Ci.	4	3	9	9	8	6	l	l	l	J	k	k	...	...	...	...	...	...	⌴ bc *a* : p ●^{0} *p* : p ●^{0} i d_0 *n*.
15	St.	St : St-Cu.	St : St-Cu.	10	9	7	6	6	5	G	k	k	k	k	J	d_0	...	...	...	...	...	d_0 *a* : p ●^{0} *p* and *n*.
16	St.	St.	St.	10	10	10	10	10	10	I	I	I	h	I	J	...	d	d_0	d_0	d_0	...	i d_0 i d i ●^{0} *a* : continuous d_0 *p* : d_0 to i ● *n*.
17	Cu : St-Cu.	St : St-Cu.	St : A-St.	9	9	9	10	9	10	k	k	k	k	J	k	...	●^{0}	...	...	...	...	p ●^{0} *a* : c to p ●^{0} *p* : p ●^{0} *n*.
18	St : St-Cu.	St : A-St.	St : A-St.	10	10	9	9	10	5	I	h	h	h	h	I	...	...	d	d	●^{0}	...	i ●^{0} *a* : i ●^{0} i d *p* : i ●^{0} to continuous ●^{0} *n*.
19	St.	St.	St.	10	10	10	10	10	10	G	h	J	I	I	I	d	...	...	●^{0}	d_0	...	d d_0 *a* : continuous ●^{0} *p* : continuous d_0 to i ●^{0} *n*
20	Cu : St-Cu.	Cu:A-Cu:Ci-Cu:Ci.	St : St-Cu.	1	1	6	2	7	10	l	l	l	l	l	I	...	...	...	...	...	...	p ●^{0} early otherwise fair *a* and *p* : i ●^{0} to con[tinuous ● *n*
21	St : Nb.	St : St-Cu : A-St.	Cu : A-St : A-Cu.	10	10	9	9	8	3	J	k	J	l	l	l	●^{0}	...	...	...	...	...	●^{0} i d_0 *a* : c *p* : c to b *n*.
22	Cu : St-Cu : A-Cu.	St : Nb : A-St.	St : Nb.	6	10	10	10	10	10	l	k	k	I	h	I	...	●	●^{0}	●^{0}	●^{0}	...	p ● *a* : continuous ●^{0} *p* : ●^{0} to i ●^{0} *n*.
23	St : St-Cu : A-St.	St : Nb : St-Cu.	Cu : Nb : St-Cu.	6	9	8	8	6	7	J	J	k	k	k	k	...	...	●^{0}	...	...	...	p ● to bc *a* : p ●^{0} p ▲^{0} *p* : ⊲ p ▲^{0} *n*.
24	Cu-Nb : Nb.	Cu : Ci.	Cu-Nb:Cu:St-Cu.	8	4	4	9	5	7	k	k	k	k	l	k	...	...	...	...	...	...	p ▲ q p ●^{0} *a* : p ● *p* : p ● p ▲^{0} *n*.
25	Cu : St-Cu.	Cu-Nb : Nb.	Cu-Nb : St-Cu.	4	8	8	6	6	3	l	k	k	k	k	l	...	▲	▲	...	...	...	p ▲^{0} p ▲ ● *a* and *p* : p ●^{0} p ● q *n*.
26	St : St-Cu : A-St.	St : A-St.	St : St-Cu : A-St.	8	7	10	10	10	10	l	l	k	k	k	h	...	...	...	...	●^{0}	●^{0}	bc to c *a* : i ●^{0} *p* : i ●^{0} to continuous ●^{0} *n*.
27	St.	St : St-Cu.	St:Cu-Nb:St-Cu.	10	10	9	8	5	6	G	G	k	J	k	k	d_0	d	...	●^{0}	...	...	Continuous d to i ●^{0} *a* : p ●^{0} *p* and *n*.
28	St:Cu-Nb:St-Cu:A-St.	St : St-Cu.	Cu : St-Cu.	10	8	10	8	2	9	J	k	k	l	l	k	...	...	...	...	...	●^{0}	p ●^{0} *a* : i ●^{0} to bc *p* : p ▲ q ⊲ *n*.
29	Cu-Nb : Cu.	St : Nb.	Cu-Nb:Cu:St-Cu.	3	7	9	8	4	5	k	k	J	l	k	k	...	...	●	...	...	...	p ●^{0} to p ● *a* and *p* : p ●^{0} *n*.
30	Cu : St-Cu.	St : St-Cu.	St.	2	7	9	10	10	10	l	l	k	l	h	I	...	...	...	...	●^{0}	...	p ●^{0} *a* and *p* : i ●^{0} ● *n*.
31	St : St-Cu.	St : St-Cu.	St : St-Cu.	10	10	10	10	10	10	h	h	I	I	I	k	●^{0}	●	●^{0}	●^{0}	●^{0}	●^{0}	Continuous ● ●^{0} *a* : i ●^{0} *p* : i ●^{0} p ●^{0} Ш *n*
Mean Cloud Am'nt.				6·9	7·4	8·0	8·1	7·0	7·3													

430. Cahirciveen (Valentia Observatory). February, 1931.

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	St-Cu.	Cu : St-Cu.	St : St-Cu.	8	3	8	9	10	10	l	k	l	l	l	k	...	...	...	...	...	●^{0}	p ▲^{0} ●^{0} *a* : c *p* : ●^{0} ● *n*.
2	St : Nb.	St : St-Cu : A-St.	St : St-Cu.	10	10	5	9	9	8	J	G	k	k	k	l	...	●	...	...	...	...	i ● continuous ● *a* : bc to c *p* : c to bc *n*.
3	Ci.	Cu : St-Cu : Ci-Cu : Ci.	St : St-Cu : Ci.	2	6	8	8	9	10	l	l	l	l	l	l	...	...	...	...	...	...	Fair to cloudy.
4	St : St-Cu.	St : St-Cu.	St-Cu.	10	10	9	8	9	2	k	I	l	l	l	k	...	d_0	...	...	...	...	i d_0 *a* : c *p* : c to b *n*.
5	St : St-Cu.	St : St-Cu.	St : Nb.	10	10	10	10	10	10	k	k	J	J	h	G	...	...	...	...	●	d	●^{0} to d *a* : i ●^{0} to ●^{0} *p* : ● d *n*.
6	Cu-Nb:Cu:St-Cu:A-Cu.	St : St-Cu : A-St : Ci-St.	St : St-Cu.	8	7	9	7	3	3	l	k	l	l	l	l	...	...	...	...	...	...	p ● q to c *a* : ⊕ 13h : c to bc *p* : p ●^{0} *n*.
7	St : St-Cu.	St : St-Cu.	St : St-Cu : A-St.	8	8	9	9	10	10	l	l	l	l	k	J	...	...	...	...	...	●	p ●^{0} *a* : c to p ●^{0} *p* : c to continuous ● *n*.
8	St.	St.	St : St-Cu.	10	10	10	10	10	10	G	G	G	h	I	h	d_0	d_0	d_0	...	...	d_0	● d_0 *a* : i d_0 *p* : i d_0 i ● *n*.
9	St-Cu.	St : St-Cu.	St.	1	6	9	10	10	10	l	k	k	J	G	J	...	...	...	●^{0}	d	...	Fair *a* : p ●^{0} to continuous ●^{0} *p* : i d i ● *n*.
10	Cu : St-Cu.	Nb : St-Cu.	St : Cu-Nb : St-Cu.	6	5	8	2	4	3	l	l	l	l	l	l	...	...	...	...	...	...	q p ● ▲^{2} *a* : p ▲^{0} *p* : p ▲ ● q *n*.
11	Nb : A-St.	St : St-Cu.	St : Cu : Nb : St-Cu.	10	10	9	9	8	3	k	I	J	J	J	J	●	●	...	●^{0}	...	...	p ● q i ● *a* : p ● p ●^{0} *p* : p ●^{0} *n*.
12	St : Nb : A-St.	St : Cu-Nb : St-Cu.	St : Nb.	10	7	5	9	7	4	k	k	k	k	k	k	...	...	...	...	...	...	p ● p ▲ all day.
13	St : Nb : St-Cu.	St : Cu-Nb : Nb.	St : Cu-Nb : St-Cu.	10	9	7	9	7	8	k	k	k	k	k	k	...	...	...	...	●^{0}	●^{0}	p ● p ▲ q *a* : p ●^{0} *p* and *n*.
14	St : St-Cu.	St : St-Cu.	St.	10	10	10	10	10	10	k	G	J	J	I	J	...	●^{0}	...	...	d_0	●^{0}	c to continuous ●^{0} *a* : i ●^{0} i d_0 *p* : i d p ●^{0} *n*
15	St : St-Cu.	St : St-Cu.	St : St-Cu.	8	9	10	10	9	10	k	l	k	l	l	l	...	...	...	...	...	...	Cloudy : p ●^{0} late *p* : ●^{0} *n*.
16	Cu-Nb : Cu.	Cu-Nb : Cu.	St : Cu-Nb : St-Cu.	4	9	4	9	6	5	l	k	k	k	k	k	...	...	...	▲	...	...	●^{0} to q p ● ▲ *a* : q p ▲ *p* : q p ▲^{2} *n*.
17	Cu-Nb : Cu.	St : Cu-Nb : St-Cu.	Cu-Nb : Cu : St-Cu.	9	6	6	8	6	2	k	k	k	l	l	l	...	...	...	...	...	...	p ▲^{2} to p ▲ *a* : p ▲ p ▲^{0} *p* : p ▲^{2} to bc *n*.
18	Cu : St-Cu.	Cu.	Fr-Cu : A-Cu : Ci-St : Ci.	7	6	3	3	9	1	l	l	l	l	l	l	...	...	...	...	...	...	p ●^{0} *a* otherwise fair to fine.
19	St.	St.	St.	10	10	10	10	10	10	I	G	I	k	J	I	d	●^{0}	...	...	...	...	bc to continuous ●^{0} *a* : c to i d_0 *p* : d_0 ●^{0} *n*.
20	St.	St : Cu : St-Cu.	St : St-Cu.	10	10	8	8	7	9	J	J	k	k	l	I	●^{0}	●^{0}	...	...	●^{0}	●^{2}	p ● p ●^{0} *a* and *p* : p ▲^{2} ꓘ q *n*.
21	Cu-Nb : Cu.	Cu-Nb : Cu.	Cu-Nb : Cu : St-Cu.	8	8	2	2	5	4	k	k	m	m	l	l	...	...	...	...	...	...	p ●^{0} p ▲ *a* : p ▲^{2} to bc *p* : p ● p ▲ *n*.
22	Cu : St-Cu.	Cu-Nb : St-Cu.	Cu : Nb : St-Cu.	6	6	8	4	6	2	l	l	l	l	l	l	...	...	...	...	...	...	p ●^{0} p ● all day.
23	Cu : St-Cu.	St : Cu : St-Cu : Ci.	St : St-Cu : Ci.	7	9	8	9	8	10	l	l	l	l	m	l	...	...	...	...	...	...	p ●^{0} *a* : c to bc *p* and *n*.
24	St : St-Cu : S-St.	St.	St.	10	10	10	10	10	10	l	k	I	J	G	G	...	...	d_0	d_0	●^{0}	d_0	bc to i d_0 *a* : i d_0 to continuous ●^{0} *p* : ●^{0} d_0 *n*.
25	St.	St.	St.	10	10	10	10	10	10	G	E	J	J	I	G	d	...	...	...	...	d_0	d_0 f m *a* : o i d_0 *p* : continuous d_0 *n*.
26	St.	St : St-Cu : A-St.	St : Cu : St-Cu : Ci.	10	10	10	8	8	10	F	D	J	l	l	l	●^{0}	...	...	...	...	...	● ●^{0} f m *a* : c to bc *p* : p ●^{0} to i ● *n*.
27	St : St-Cu.	St : A-St.	St : Cu : St-Cu.	10	10	10	10	8	10	k	J	J	I	k	k	...	●^{0}	●	●	...	●^{0}	●^{0} *a* : continuous ● to c *p* : p ●^{0} *n*.
28	Cu : St-Cu.	Cu : St-Cu.	Cu-Nb : Cu.	5	8	9	9	7	5	k	k	l	k	l	l	...	...	...	...	...	...	p ●^{0} p ▲^{0} p ✱^{0} Ш *a* : i ✱ p ▲ q *p* : ✱ ▲ *n*.
Mean Cloud Am'nt.				8·1	8·3	8·0	8·2	8·0	7·1													
Day.	7h	13h	18h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						

NOTE.—Visibility in these tables refers to a landwards direction; visibility seawards, when it differs from visibility landwards, is given on p. 279.

431. Cahirciveen (Valentia Observatory). March, 1931.

Day.	Cloud Forms. 7h	13h	18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	Cu-Nb : St-Cu.	Cu : St-Cu : Ci-St.	Cu:St-Cu:A-St:Ci-St.	5	5	6	5	9	10	k	l	l	m	l	l	…	…	…	…	…	…	p ▲ to bcy *a* : p ▲^{0} to c *p* : c *n*.
2	St : Nb : St-Cu.	St : St-Cu : A-St.	St : St-Cu : A-St.	10	10	10	10	9	10	l	l	l	l	k	k	●^{0}	…	…	…	●^{0}	…	i ✻ i ●^{0} to c *a* : c to i ●^{0} *p* : i ●^{0} to c *n*.
3	Nb : St-Cu : A-St.	St : St-Cu : A-St.	St : St-Cu : A-St.	10	10	10	10	10	9	m	m	l	l	l	l	…	…	…	…	…	…	c v to p ●^{0} *a* : i ●^{0} *p* : p ●^{0} to continuous ●^{0} *n*.
4	Nb : St-Cu : A-St.	St : St-Cu.	St : St-Cu.	10	10	9	10	9	9	k	J	k	k	J	k	●^{0}	…	…	…	●^{0}	…	Continuous ● ●^{0} to i ●^{0} *a* : i d p ●^{0} *p* : i d *n*.
5	St : St-Cu.	Cu:Nb:St-Cu:A-St.	St : Nb : A-St.	10	9	10	10	10	10	J	k	k	k	J	J	●^{0}	…	●^{0}	●^{0}	●^{0}	●	i ●^{0} to p ●^{0} *a* : p ●^{0} to continuous ●^{0} *p* : con- [tinuous ●^{0} ● *n*.
6	Nb : St-Cu : A-St.	St : Nb : St-Cu.	St : Nb : A-St.	10	9	10	10	10	10	J	J	J	J	J	J	●^{0}	…	●^{0}	●^{0}	●^{0}	●^{0}	Continuous ● to c *a* : continuous ●^{0} *p* : ●^{0} to c *n*.
7	Cu : St-Cu : Ci-Cu	Cu : Ci.	Cu : St-Cu.	8	7	3	5	4	5	l	l	l	m	l	l	…	…	…	…	…	…	c to bcy *a* : bcy to p ✻^{0} *p* : bc to c *n*.
8	St-Cu.	St-Cu : Nb.	St-Cu : Nb.	10	10	10	9	9	9	k	k	k	k	k	k	…	…	✻^{0}	…	…	…	bc to continuous ✻^{0} *a* : ✻^{0} to c *p* : c *n*.
9	Cu.	Cu : St-Cu.	Cu : St-Cu : Ci.	4	7	4	8	3	1	k	l	l	l	l	l	…	…	…	…	…	…	c to bcy *a* : c to bc *p* : p ✻^{0} to b *n*.
10	St-Cu.	Cu : St-Cu.	St : Cu : St-Cu.	8	5	6	3	8	9	k	l	m	m	l	l	…	…	…	…	…	…	⊔ p ●^{0} v *a* : j p bc v y *p* : c to bc *n*.
11	Fr-St : Cu : St-Cu.	Cu : St-Cu.	Cu.	4	7	3	3	2	3	l	l	m	m	l	l	…	…	…	…	…	…	Fair all day : v y *p*.
12	St : St-Cu.	Cu : St-Cu : Ci.	St : St-Cu : Ci.	8	7	8	8	8	8	l	l	m	m	l	l	…	…	…	…	…	…	p ●^{0} to c *a* : c to p ●^{0} *p* : c p ●^{0} *n*.
13	St : St-Cu : A-St.	Cu : St-Cu.	Cu : St-Cu.	8	10	3	2	1	4	k	k	m	m	m	l	…	●	…	…	…	…	p ●^{2} i ● *a* : p ▲ to bc v *p* : p ●^{0} p ● *n*.
14	St : Cu : St-Cu.	Cu:St-Cu:Ci-St:Ci.	Fr-St : Cu : Ci.	7	9	9	6	4	3	m	J	l	l	l	l	…	▲	…	…	…	…	p ▲ p ● *a* : fair *p* : p ● *n*.
15	St : St-Cu.	Cu : St-Cu : A-St.	St : St-Cu : A-St.	9	9	9	8	10	8	l	k	l	l	l	l	…	●^{0}	…	…	…	…	p ●^{2} to p ●^{0} *a* : c p ●^{0} *p* and *n*.
16	St-Cu : A-Cu.	Cu:St-Cu:A-Cu:Ci.	St : St-Cu.	5	2	7	9	9	9	k	k	k	J	k	k	…	…	…	…	●^{0}	…	Fair y *a* : c y to p ●^{0} *p* : i ● *n*.
17	St : St-Cu.	Cu : St-Cu : Ci.	St : Cu : St-Cu.	7	8	9	9	9	10	k	k	l	k	l	k	…	…	…	…	…	…	p ●^{0} early otherwise fair to cloudy.
18	St : St-Cu.	St : St-Cu.	St : St-Cu.	8	10	10	9	9	5	J	I	J	l	k	k	●^{0}	●^{0}	…	…	…	…	p ●^{0} i ●^{0} *a* : p ●^{0} to c *p* : i d *n*.
19	St : A-St.	St : St-Cu.	St : St-Cu.	10	10	9	9	9	9	l	J	k	k	k	k	…	●^{0}	…	…	●^{0}	…	i ●^{0} *a* : p ●^{0} *p* : i d$_0$ *n*.
20	St : Cu : St-Cu : A-Cu.	St : St-Cu.	St : St-Cu.	4	4	8	7	9	8	l	l	l	k	J	J	…	…	…	…	d$_0$	d$_0$	Fair *a* : p ●^{0} i d$_0$ *p* : i d$_0$ i ●^{0} *n*.
21	St : St-Cu : Ci.	Cu : St-Cu : Ci.	Cu : St-Cu : Ci.	8	8	6	7	8	2	k	k	l	l	l	l	…	…	…	…	…	…	p ● to bc *a* : c to bc *p* and *n*.
22	Cu : Ci.	Cu : St-Cu.	St : Cu : St-Cu.	2	2	7	3	8	9	l	m	m	l	l	l	…	…	…	…	…	…	⌓ early to bc v *a* : p ●^{0} *p* : c *n*.
23	St.	Cu.	Cu : St-Cu.	10	10	4	2	4	2	D	E	k	l	l	l	…	…	…	…	…	…	f m to bc *a* : fair to fine *p* and *n* : y *p*.
24	Cu : St-Cu.	Cu : St-Cu.	St-Cu.	2	10	4	6	6	0	l	k	I	I	l	l	…	…	…	…	…	…	Fair : ⌓ early : z$_0$ *p*.
25	St : St-Cu.	St : St-Cu.	St : St-Cu.	9	10	8	10	9	10	k	k	J	J	k	k	…	…	…	…	…	…	bc to c *a* : c *p* and *n*.
26	St:St-Cu:Ci-Cu:Ci.	St : St-Cu.	St : St-Cu.	9	10	9	9	9	8	k	k	k	J	I	I	…	…	…	…	…	…	Cloudy all day : z$_0$ late *p* and *n*.
27	St:St-Cu:Ci-Cu:Ci.	St : St-Cu.	St : St-Cu : A-St.	8	4	9	10	10	10	J	J	J	J	k	J	…	…	…	…	●^{0}	●^{0}	c to bc *a* : c to i ●^{0} *p* : continuous ●^{0} *n*.
28	St : A-St.	St:Cu:St-Cu:A-St.	Nb : St-Cu : A-St.	10	10	9	10	9	10	k	k	l	k	l	k	●^{0}	…	…	●^{0}	●^{0}	…	p ●^{0} to c *a* : i ● i ●^{0} *p* : i ●^{0} *n*.
29	St:Nb:St-Cu:A-St.	St : Nb.	St : Cu : St-Cu.	10	10	10	10	9	10	k	h	J	I	k	k	●	●^{0}	…	●^{0}	…	…	i ● i ●^{0} *a* : i ●^{0} *p* : p ●^{0} *n*.
30	St : St-Cu.	St : St-Cu.	St : St-Cu.	9	9	10	10	10	10	J	k	J	I	I	G	…	…	…	●^{0}	●^{0}	d$_0$	p ●^{0} to ● *a* : i ●^{0} *p* : continuous d$_0$ *n*.
31	St : St-Cu.	St.	St : Nb : A-St.	10	10	10	10	10	10	k	k	I	k	J	J	…	…	●	●^{0}	●	●	i ●^{0} i d$_0$ *a* : continuous ●^{0} *p* : continuous ● *n*.
Mean Cloud Am'nt.				7·8	8·1	7·7	7·6	7·8	7·4													

432. Cahirciveen (Valentia Observatory). April, 1931.

Day.	Cloud Forms. 7h	13h	18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	Nb : A-St.	St : St-Cu : A-St.	St : St-Cu.	10	10	9	10	9	9	J	k	l	l	k	l	●	●	…	…	●^{0}	…	Continuous ● ●^{0} *a* : i ●^{0} *p* and *n*.
2	St : St-Cu.	St : Cu : St-Cu.	St : Cu : St-Cu.	9	10	8	9	6	6	k	k	k	l	l	l	…	…	…	…	●^{0}	…	p ●^{0} all day.
3	St : St-Cu.	Cu : St-Cu : Ci-St.	St-Cu:A-Cu:Ci-Cu:Ci.	9	8	5	7	5	4	l	m	m	m	m	m	…	…	…	…	…	…	bc to p ●^{0} *a* : bc c v y *p* : c v bc v *n*.
4	Cu : St-Cu	Cu : Ci.	St:Cu:St-Cu:A-Cu.	2	6	5	6	9	7	l	k	l	m	l	l	…	…	…	…	…	…	⌓ early : v *p* : fair generally.
5	St : St-Cu.	St.	St.	10	10	10	10	10	10	k	J	h	h	I	J	●^{0}	●^{0}	●^{0}	●^{0}	d	…	Continuous ●^{0} d *a* and *p* : continuous d to i ●^{0} *n*.
6	St : St-Cu.	Cu:St-Cu:Ci-Cu:Ci.	St : St-Cu.	9	8	7	9	10	10	l	k	l	l	l	k	…	…	…	…	…	…	Mainly cloudy : ●^{0} early *a* : d$_0$ *n*.
7	St : St-Cu.	St : St-Cu : A-St.	St : A-St.	9	9	9	10	10	10	k	l	l	k	J	I	d$_0$	…	…	…	●^{0}	●	p ●^{0} i d$_0$ *a* : i d$_0$ to ●^{0} *p* : continuous ● ●^{0} *n*.
8	St C: St-u.	St : Cu : St-Cu : Ci.	Cu:St-Cu:A-Cu:Ci	10	9	8	9	8	9	k	k	k	l	l	l	…	…	…	…	…	…	i ● p ●^{0} *a* : c *p* and *n*.
9	St : St-Cu.	Cu : St-Cu : Ci.	Fr-St : St-Cu.	9	7	6	3	8	2	l	l	l	l	l	l	…	…	…	…	…	…	⌓ early, fair generally.
10	St : St-Cu.	Cu : A-Cu : Ci.	Fr-Cu:St-Cu:A-Cu:Ci-Cu	9	5	4	5	3	3	l	l	l	l	l	l	…	…	…	…	…	…	⌓ early : fair to fine.
11	St : A-Cu : Ci.	St : St-Cu.	St : St-Cu.	9	9	10	10	10	10	l	J	I	J	k	I	…	…	…	…	…	●^{0}	Mainly cloudy : ⌓ early : i d$_0$ i ●^{0} *p*.
12	St-Cu : A-Cu.	Cu:St-Cu:Ci-Cu:Ci.	Cu : St-Cu.	6	6	6	6	5	6	l	m	l	l	l	l	…	…	…	…	…	…	p ●^{0} *a* and *p* : mainly fair.
13	St-Cu.	St-Cu.	St : St-Cu.	5	4	9	10	9	9	l	l	k	l	l	k	…	…	…	…	…	…	⌓ early bc *a* : c *p* and *n*.
14	St : St-Cu.	Cu : St-Cu.	St : St-Cu.	9	7	6	3	10	10	k	l	m	l	l	k	…	…	…	…	…	…	c *a* : c to bc *p* : i d$_0$ *n*.
15	St : Nb.	Cu : St-Cu.	Cu : St-Cu.	10	8	4	3	2	3	J	k	l	l	l	l	●	…	…	…	…	…	i ● to c *a* : mainly fair *p* and *n* but occasional [p ●^{0}.
16	St : St-Cu : A-St.	St : St-Cu : A-St.	St : St-Cu.	10	9	10	9	9	10	l	l	k	l	l	k	…	…	…	…	…	●^{0}	p ●^{0} early *a* and *n* otherwise cloudy.
17	St.	Cu : St-Cu.	St : Cu : St-Cu.	10	10	3	4	6	5	J	k	l	l	l	l	●^{0}	…	…	…	…	…	i ●^{0} to c *a* : p ●^{0} *p* : p ●^{0} to p ● *n*.
18	St : Cu : St-Cu.	Cu.	Cu.	7	5	2	3	3	7	l	l	l	l	l	k	…	…	…	…	…	●^{0}	Fair *a* and *p* : y *p* : p ●^{0} *n*.
19	Cu : St-Cu.	Cu : St-Cu.	St : Cu : St-Cu.	9	9	8	8	9	8	l	l	l	l	l	l	…	●^{0}	…	…	…	…	p ●^{0} *a* : c y *p* : c to bc *n*.
20	St : Cu : St-Cu.	Cu : St-Cu.	Cu : St-Cu.	7	4	5	7	6	4	l	l	l	l	m	l	…	…	…	…	…	…	Fair generally : y *p*.
21	Cu : St-Cu : Ci.	Cu:St-Cu:A-Cu:Ci.	Cu : St-Cu : Ci.	9	8	8	3	2	1	l	l	m	m	m	m	…	…	…	…	…	…	bc to c v *a* : bc v *p* : bc v to b v *n*.
22	Cu:St-Cu:A-Cu:Ci-Cu.	St : St-Cu.	Cu : St-Cu.	7	9	9	7	5	5	l	m	l	m	m	l	…	…	…	…	…	…	b ⌓ to c p ●^{0} *a* : p ●^{0} to bc *p* and *n*.
23	St:Cu:St-Cu:A-Cu	St : St-Cu : A-St.	St : Cu : St-Cu.	9	10	10	9	9	9	l	l	l	k	k	k	…	●	…	…	●^{0}	…	p ● i ●^{0} *a* : c to p ●^{0} *p* : p ●^{0} p ●^{2} *n*.
24	Cu:Nb:St-Cu:A-St.	St : St-Cu : A-St.	St:Cu:St-Cu:Ci.	9	9	10	6	7	9	l	k	k	l	l	I	…	…	●^{0}	…	…	●^{2}	● to c *a* : i ●^{0} to bc *p* : p ●^{2} *n*.
25	St : St-Cu.	St : Cu : St-Cu.	Cu : St-Cu : A-Cu.	10	9	8	6	5	8	m	l	l	l	l	l	…	…	…	…	…	…	p ●^{0} p ● *a* : p ●^{0} to bc *p* and *n*.
26	St : Cu : St-Cu.	Cu : Nb : St-Cu.	Cu : St-Cu : Ci.	8	9	9	9	6	5	k	k	J	J	k	k	…	…	…	…	…	…	p ●^{0} to c *a* : p ●^{0} to bc *p* and *n*.
27	Nb : St-Cu.	St : St-Cu : Ci.	St : St-Cu.	10	10	9	9	9	10	J	J	k	k	k	J	●^{0}	d$_0$	…	…	…	…	i ●^{0} i d$_0$ *a* : c *p* : i d$_0$ *n*.
28	St : St-Cu.	St : St-Cu.	St : St-Cu.	10	10	10	10	9	10	l	l	m	m	l	l	…	…	…	…	…	…	i d$_0$ to c *a* : c *p* : i d$_0$ *n*.
29	St : St-Cu.	St : St-Cu.	St : St-Cu.	10	10	9	9	9	9	J	l	m	m	m	m	d$_0$	…	…	…	…	…	i d$_0$ to c *a* : c *p* and *n*.
30	St : St-Cu : A-St.	Cu : St-Cu.	Cu : St-Cu : Ci.	10	10	6	5	3	7	J	l	l	m	m	m	d$_0$	…	…	…	…	…	i d$_0$ to bc *a* : bc *p* : bc to c *n* : ⌓ *n*.
Mean Cloud Am'nt.				8·7	8·2	7·4	7·1	7·0	7·2													

NOTE.—Visibility in these tables refers to a landwards direction : visibility seawards, when it differs from visibility landwards, is given on p. 279.

433. Cahirciveen (Valentia Observatory). May, 1931.

Day.	Cloud Forms. 7h	13h	18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	Cu:St-Cu:Ci-Cu:Ci.	St : St-Cu.	St : A-St.	7	7	10	10	10	9	l	m	l	k	k	l	...	...	...	●^{0}	...	...	⌓ early bc to c *a* : i ●^{0} *p* : i d_0 i ●^{0} *n*.
2	Cu-Nb:Cu:A-Cu.	Cu : St-Cu.	Cu : St-Cu.	3	4	4	2	3	4	m	m	m	m	m	l	...	...	...	...	...	...	Fair to fine v *p*.
3	Cu : St-Cu.	Cu : St-Cu.	St : Cu : St-Cu.	2	9	8	2	8	4	m	l	l	m	l	l	...	...	...	...	...	...	⌓ early to p ●^{0} *a* : p ●^{0} to bc *p* and *n*.
4	St : St-Cu.	St:Cu-Nb:St-Cu:Ci.	Cu-Nb:Cu:St-Cu.	7	7	7	5	5	8	l	l	m	m	m	l	...	...	...	...	...	...	p ●^{0} *a* : c v to bc to p ▲^{2} *p* : p ▲ p ● *n*.
5	St:Cu-Nb:St-Cu:Ci.	St : St-Cu : A-St.	St : St-Cu : A-St.	8	9	10	9	9	9	m	m	l	m	m	l	...	...	...	...	...	●^{0}	p ●^{0} to c v *a* and *p* : continuous ●^{0} ● *n*.
6	St : St-Cu.	St : Nb : St-Cu.	St : St-Cu.	10	8	10	9	9	5	k	k	k	l	m	m	...	...	●^{0}	...	...	...	Continuous ● to i ●^{0} *a* : i ●^{0} to p ●^{0} *p* : bc v to c *n*.
7	St : St-Cu : Ci.	St : St-Cu.	Cu:St-Cu:A-Cu:Ci.	8	9	9	10	6	1	l	l	l	l	l	l	...	...	...	...	...	...	⌓ early c *a* : c j p to bc *p* : bc b ⌓ *n*.
8	Fr-Cu : Ci.	Fr-Cu : Ci-St : Ci.	St-Cu : A-St : Ci-St : Ci.	7	4	8	9	9	10	k	l	m	m	l	l	...	...	...	...	...	...	⌓ early bc *a* : c *p* and *n*.
9	St : St-Cu.	St : St-Cu.	St : Nb.	10	10	10	10	10	10	J	I	J	J	J	I	●	●	●	●	●	●^{0}	Continuous d_0 ●^{0} or ● all day.
10	St : Nb.	St : St-Cu.	St.	10	10	10	10	10	9	I	I	J	k	h	J	●^{0}	...	...	●^{0}	●^{0}	...	Continuous ● ●^{0} *a* : p ●^{0} *p* : ●^{0} *n*.
11	St : St-Cu.	St : Cu : St-Cu : Ci.	Cu : St-Cu : Ci.	5	5	6	6	7	3	k	J	k	k	k	k	...	...	...	...	...	...	Fair generally.
12	St : St:Cu : A-Cu.	St : St-Cu.	St.	9	9	9	10	10	10	k	k	k	J	J	J	...	...	...	...	...	...	bc ⌓ to c *a* : c to o *p* : i ●^{0} i ● *n*.
13	St : St-Cu.	St:Cu:St-Cu:Ci.	St : St-Cu.	8	7	9	6	10	9	J	k	k	k	k	J	...	...	...	...	●^{0}	●	p ●^{0} to bc *a* : bc to p ●^{0} *p* : ● *n*.
14	St : St-Cu.	Cu : St-Cu : Ci.	Cu : St-Cu : Ci.	9	7	6	9	6	9	k	k	k	k	k	k	...	...	...	...	...	...	p ●^{0} early *a* and *n* otherwise fair.
15	St : St-Cu.	Cu:St-Cu:A-Cu:Ci.	Cu : St-Cu.	9	5	6	8	3	8	l	l	l	l	l	l	...	...	...	...	...	...	⌓ early p ●^{0} *a* : bc to c *p* and *n*.
16	St : St-Cu : Ci.	Cu : St-Cu.	Cu : Ci.	8	9	4	3	2	2	l	m	m	m	m	m	...	...	...	...	...	...	⌓ early : fair generally.
17	Cu : Ci.	Cu : Ci-St : Ci.	Cu : Ci.	2	4	8	3	1	7	m	m	m	m	m	m	...	...	...	...	...	...	⌓ early : v *a* and *p* : fair to fine.
18	Cu : St-Cu : Ci.	Cu : St-Cu : Ci.	St:St-Cu:A-Cu:Ci.	9	2	6	6	7	9	m	m	m	m	m	m	...	...	...	...	...	...	Fair generally : ⌓ early : v *a* and *p*.
19	Cu:Nb:St-Cu:A-St.	Cu : St-Cu.	Fr-Cu : St-Cu.	9	8	5	6	4	1	l	l	m	m	m	m	...	...	...	...	...	...	i ● p ●^{0} *a* : bc v *p* and *n*.
20	St : Cu : St-Cu.	Cu:St-Cu:A-Cu.	St : St-Cu : A-St.	8	8	7	6	10	10	l	l	m	m	l	l	...	...	...	...	...	...	⌓ early : mainly cloudy, bc at times : q *n*.
21	Cu : St-Cu : A-St.	St : Nb : St-Cu.	St : St-Cu.	10	10	10	10	9	9	l	J	J	k	k	k	...	●^{0}	●^{0}	...	...	...	●^{0} *a* and *p* : i ● to bc *n*.
22	Cu.	Cu : St-Cu.	St : St-Cu : A-St.	2	7	6	9	10	10	l	m	m	l	m	J	...	...	...	...	...	●	Fair to cloudy *a* and *p* : y *p* : i ● *n*.
23	St : Cu.	St : Cu : St-Cu.	Nb : A-St.	9	7	7	8	10	9	l	l	l	l	J	k	...	...	...	...	●	...	bc to p ●^{0} *a* : p ●^{0} to i ●^{2} *p* : p ●^{0} *n*.
24	Nb : St-Cu.	Cu : Nb : St-Cu.	Nb : St-Cu.	9	9	9	9	9	9	k	J	J	k	J	J	...	...	...	...	...	...	p ●^{2} early *a* : p ●^{0} rest of day.
25	Cu : Nb : St-Cu.	St : Nb : A-Cu.	Cu : Nb : A-Cu.	9	10	9	9	9	8	k	J	J	J	J	J	...	...	...	...	...	●^{2}	p ● *a* : ● ●^{2} *p* : p ●^{2} p ● *n*.
26	St : St-Cu : A-Cu.	St : Cu : St-Cu.	Cu:St-Cu:Ci-Cu.	9	8	8	7	3	3	k	k	l	l	l	k	...	...	...	...	...	...	p ●^{0} *a* : fair *p* and *n*.
27	Cu:St-Cu:Ci-St:Ci.	Cu : St-Cu : Ci.	St-Cu : Ci.	8	8	6	9	7	4	l	l	m	m	l	l	...	...	...	...	...	...	Fair generally : y *p*.
28	St : St-Cu.	Fr-St:St-Cu:A-St.	Cu : St-Cu : Ci.	10	10	10	9	4	9	J	k	k	l	l	l	d_0	...	...	...	...	...	i d_0 *a* : p ●^{0} *p* and *n*.
29	Cu : Nb : A-St.	Cu : A-St : Ci.	Nb : St-Cu.	10	9	8	9	7	9	l	l	m	m	J	J	●^{0}	...	...	...	●	●^{0}	p ●^{0} to i ● *a* and *p* : ●^{0} to ●^{2} *n*.
30	St:St-Cu:A-St:Ci.	Cu:St-Cu:A-St:Ci.	St : St-Cu.	8	8	7	7	10	9	l	l	l	l	k	l	...	...	...	...	●^{0}	●^{0}	bc to c *a* : c to i ● *p* : i ●^{0} p ●^{0} *n*.
31	St : St-Cu.	Cu:St-Cu:Ci-St:Ci.	St : Cu : St-Cu.	7	6	6	8	6	1	k	l	k	l	k	l	●^{0}	...	...	...	...	...	i ●^{0} to bc *a* : fair to fine *p* and *n* : ⌓ *n*.
Mean Cloud Am'nt.				7·7	7·5	7·7	7·5	7·2	7·0													

434. Cahirciveen (Valentia Observatory). June, 1931.

Day.	Cloud Forms. 7h	13h	18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	St : St-Cu.	St : St-Cu.	Cu:St-Cu:A-Cu:Ci.	10	10	9	8	6	9	J	k	k	J	k	J	...	...	...	...	...	...	⌓ early to c *a* : bc to c *p* : bc to p ●^{0} *n*.
2	St.	St.	St.	10	10	10	10	10	10	G	G	J	I	I	I	...	●^{0}	...	...	●^{0}	...	i ●^{0} *a* : i d to continuous ●^{0} *p* : d_0 *n*.
3	St.	St : St-Cu.	Fr-Cu : Ci.	10	10	8	3	1	2	h	k	k	l	m	m	d_0	...	...	...	...	...	Continuous d_0 to c *a* : bc to b v *p* and *n*.
4	St : St-Cu.	St:A-Cu:Ci-Cu:Ci-St.	Nb.	9	9	9	10	10	7	l	l	l	l	J	I	...	...	...	...	●	...	b v to c *a* : c to o i ● *p* : i ● to c *n*.
5	St : St-Cu.	St : St-Cu.	St : St-Cu.	10	9	10	10	10	10	k	k	m	l	k	J	...	...	...	...	...	●	i d_0 to c *a* : i ●^{0} to ●^{2} *p* : continuous ● to p ● *n*.
6	St : St-Cu.	St : Cu : St-Cu.	St : Cu : St-Cu.	9	10	8	6	9	7	J	J	k	k	k	k	...	...	...	...	...	...	p ●^{0} to p ●^{2} *a* : c to bc *p* : c p ●^{0} *n*.
7	St : St-Cu.	Nb : A-St.	St : Cu : St-Cu.	10	10	10	9	9	10	k	J	k	k	k	J	●^{0}	●	●^{0}	...	...	...	p ●^{0} to continuous ● ●^{2} *a* : p ●^{0} to c *p* : c *n*.
8	St : St-Cu.	Cu : St-Cu : A-Cu.	St:Cu:St-Cu:A-Cu.	9	9	6	8	8	9	k	k	l	l	l	k	...	...	...	...	...	...	p ●^{0} to c *a* : bc to c *p* : c *n*.
9	St.	St : St-Cu.	St : St-Cu.	10	10	10	9	10	10	h	G	k	k	k	I	...	d_0	...	...	...	d_0	i ●^{0} i d_0 *a* : c *p* : d_0 ●^{0} *n*.
10	St.	St : St-Cu.	St : St-Cu.	10	10	10	10	10	10	I	J	I	h	k	k	●^{0}	...	●^{0}	d	...	...	Continuous ●^{0} to c *a* : p ●^{0} i d *p* : p ●^{0} *n*.
11	Fr-Cu : A-Cu : Ci.	St : St-Cu : A-St.	St : St-Cu.	8	8	10	10	10	9	l	l	k	I	J	J	...	...	●	●^{0}	...	...	bc to p ●^{0} *a* : continuous ●^{0} ● *p* : i d_0 to c *n*.
12	Fr-St:St-Cu:A-Cu.	Cu : Ci.	Cu:St-Cu:A-Cu:Ci.	7	6	4	5	9	6	m	m	m	m	m	m	...	...	...	...	...	...	Fair to fine.
13	St-Cu:A-St:A-Cu-lent:Ci	St : St-Cu : A-St.	Nb : A-St.	9	10	10	10	10	10	m	m	l	k	k	I	...	...	...	●^{0}	●^{0}	●^{0}	b ⌓ to c v *a* : continuous ●^{0} *p* : ●^{0} ● *n*.
14	St.	St.	Cu:St-Cu:A-Cu:Ci.	10	10	10	9	9	8	h	J	h	l	l	l	d_0	●^{0}	d_0	...	...	...	● to p ●^{0} *a* : i d_0 to c *p* : c to bc *n*.
15	St:Nb:St-Cu:A-St.	St : Nb.	St : Nb.	10	10	10	10	10	10	k	J	h	I	J	J	●^{0}	●^{0}	●	●	●	●	i ●^{0} to continuous ● *a* : continuous ● *p* : ● ●^{0} *n*.
16	Cu : St-Cu : Ci.	Cu : St-Cu : Ci.	St : Cu : St-Cu : Ci.	3	7	4	6	5	2	l	l	l	l	l	l	...	...	...	...	...	...	Fair *a* and *p* : p ●^{0} *n*.
17	Cu:St-Cu:A-Cu:Ci	Cu : Fr-Cu.	Cu:St-Cu:A-Cu:Ci.	7	4	2	8	8	9	l	l	m	l	l	k	...	...	...	...	...	...	p ● early to bc *a* : bc to c *p* : p ● p ●^{0} *n*.
18	St : St-Cu.	St : St-Cu.	St : Nb : St-Cu.	10	10	9	9	9	9	J	I	l	k	J	l	...	●^{0}	...	●^{0}	●^{0}	...	i ●^{0} *a* : p ●^{0} *p* : p ●^{0} p ●^{2} *n*.
19	Cu:St-Cu:A-St:Ci.	St : Cu : St-Cu.	Cu : St-Cu.	9	9	9	5	4	7	l	l	l	l	l	l	...	...	...	...	...	...	p ● p ●^{0} *a* : bc to c *p* and *n*.
20	St : St-Cu : A-St.	St : St-Cu : A-Cu.	St : St-Cu.	10	7	9	10	10	10	l	l	l	l	J	h	...	...	...	...	d	d_0	c *a* and *p* : i ●^{0} i d_0 *n*.
21	St : St-Cu.	St.	St : St-Cu.	8	9	10	9	10	10	J	I	F	k	J	G	...	d_0	d_0	...	d_0	d_0	i d_0 all day.
22	St.	St.	St.	10	10	10	10	10	10	I	I	k	J	J	I	...	d_0	...	...	...	d_0	i d_0 *a* : i d_0 to c *p* : i d_0 *n*.
23	St.	St : St-Cu.	St : St-Cu.	10	10	10	10	10	10	E	F	J	k	k	h	d_0	d_0	...	...	...	●^{0}	Continuous d_0 *a* : c to i ●^{0} *p* : i d_0 i ●^{0} *n*.
24	St : St-Cu.	St-Cu : Ci.	St : St-Cu : Ci.	9	6	7	8	9	4	k	k	l	l	l	l	...	...	...	...	...	...	i d_0 to bc *a* : c *p* : ⌓ f *n*.
25	St : St-Cu.	St : St-Cu.	St : St-Cu : A-St.	9	9	10	10	9	10	l	l	k	k	l	l	...	...	...	...	...	...	Cloudy all day.
26	St.	St.	St.	10	10	10	10	10	10	h	I	J	I	J	I	d_0	d	d_0	d_0	...	d_0	i d i d_0 *a* : continuous d_0 to o *p* : i d_0 i ●^{0} *n*.
27	St.	St : St-Cu.	St : Cu : St-Cu.	10	10	10	10	9	10	G	G	k	k	k	G	d_0	d_0	...	...	...	...	Continuous d_0 to c *a* : c *p* : c to d_0 *n*.
28	St : St-Cu.	St : St-Cu.	Cu : St-Cu.	10	10	9	2	2	10	J	h	l	l	l	l	...	d_0	...	...	...	...	i d_0 to c *a* : bc *p* : bc to c *n*.
29	St-Cu.	St-Cu : Ci.	St-Cu : Ci.	10	10	6	4	6	5	l	l	m	m	l	l	...	...	...	...	...	...	o to bc *a* : fair to fine *p* and *n*.
30	Nb : A-St.	St : St-Cu.	St : Nb.	10	10	10	10	10	10	J	J	k	J	I	G	●	●^{0}	...	...	...	d	● ●^{0} *a* : i ●^{0} i ● *p* : continuous d ● *n*.
Mean Cloud Am'nt.				9·2	9·1	8·6	8·3	8·4	8·4													

Day. | Cloud Forms. 7h 13h 18h | Cloud Amount (All Forms). 7h 9h 13h 15h 18h 21h | Visibility. 7h 9h 13h 15h 18h 21h | Precipitation. 7h 9h 13h 15h 18h 21h | Remarks on the Weather of the Day.

NOTE.—Visibility in these tables refers to a landwards direction; visibility seawards, when it differs from visibility landwards, is given on p. 279.

435. Cahirciveen (Valentia Observatory). **July, 1931.**

Day.	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the Weather of the Day.
	7h	13h	18h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	
1	St : St-Cu.	St : Cu : St-Cu : Ci.	St : St-Cu.	9	9	8	10	10	10	l	k	m	k	k	G	...	...	...	...	...	●^{0}	c to p ●^{0} *a* : c to i ●^{0} *p* : continuous ●^{0} *n*.
2	St : St-Cu : Ci.	St : St-Cu.	St : St-Cu.	9	10	9	9	10	10	J	l	l	l	l	I	...	...	...	...	...	d$_0$	●^{0} to c *a* : c *p* : i d$_0$ *n*.
3	St.	Cu:St-Cu:A-Cu:Ci.	St : St-Cu : A-Cu.	10	10	8	9	7	9	F	I	k	k	k	k	d$_0$	d	...	...	...	...	i ●^{0} i d$_0$ *a* : c *p* : p ●^{0} *n*.
4	Cu : St-Cu : A-Cu.	Cu.	St : Cu : St-Cu.	7	7	4	4	6	6	k	k	l	l	k	k	...	...	...	...	...	...	bc to p ● *a* : bc to p ●^{0} *p* : bc to c *n*.
5	Cu-Nb : St:Cu : A-Cu.	Cu-Nb:Cu:St-Cu:A-Cu.	Cu : St-Cu : Ci.	4	8	5	4	5	6	l	l	l	l	l	l	...	...	...	...	...	...	i ●^{2} early otherwise fair to fine.
6	Cu-Nb : Cu : St-Cu : Ci.	Cu-Nb:Cu:St-Cu.	Fr-Cu : Cu.	4	5	5	2	2	4	l	l	m	m	m	l	...	...	...	...	...	...	p ●^{0} *a* : fair *p* and *n*.
7	St : St-Cu.	St : St-Cu.	St : St-Cu.	9	9	10	9	9	10	l	l	J	l	l	l	...	...	...	...	...	...	p ●^{0}.
8	St : St-Cu.	Cu:St-Cu:A-St:Ci.	Cu:St-Cu:A-Cu:Ci.	10	9	9	5	6	1	l	l	m	m	m	m	...	...	...	...	...	...	c *a* : c v to bc *p* : bc to b v *n*.
9	St-Cu : Ci.	Cu:St-Cu:Ci-St:Ci.	St : St-Cu : A-Cu.	1	2	5	8	9	9	l	m	m	m	m	m	...	...	...	...	...	...	⌓ early : v *p* : fair generally.
10	St : St-Cu.	St : Cu : St-Cu : Ci.	Cu : St-Cu : A-Cu-lent.	9	6	8	2	4	8	l	l	l	l	l	l	...	...	...	...	...	...	c to bc *a* and *p* : p ● *n*.
11	Fr-St:Cu:St-Cu:Ci.	St : Cu : St-Cu : Ci.	Nb : A-St.	3	3	8	10	10	10	l	l	m	l	h	J	...	...	...	...	●^{0}	...	p ● to bc *a* : p ●^{0} to i ●^{2} *p* : ●^{2} ● *n*.
12	St : Cu : St-Cu.	Cu : Ci.	Cu:Ci-Cu:Ci-St:Ci.	9	7	7	7	6	8	k	l	m	m	m	m	...	...	...	...	...	...	i ●^{0} to c *a* : c to bc *p* and *n*.
13	St : Cu : St-Cu : Ci.	St : St-Cu : A-St.	St : St-Cu.	7	8	10	10	9	10	l	l	k	J	J	l	...	...	...	●^{0}	●^{0}	...	i ● to p ●^{0} *a* : i ● to continuous ●^{0} *p* and *n*.
14	St : St-Cu.	St : Cu : St-Cu.	Cu : St-Cu.	10	9	7	4	3	7	l	k	l	m	m	l	...	...	...	...	...	●^{0}	i ● p ●^{0} *a* : p ●^{0} to bc v *p* : bc v to ●^{0} *n*.
15	Cu : St-Cu : A-Cu.	Cu:St-Cu:Ci-St:Ci.	Cu:St-Cu:A-Cu:Ci.	4	4	6	8	7	10	l	l	m	m	m	l	...	...	...	...	...	...	p ●^{0} early otherwise fair *a* and *p* : cloudy *n*.
16	Cu : St-Cu : A-Cu.	St : St-Cu.	St : St-Cu.	9	10	10	10	10	10	l	J	k	k	k	k	...	d	...	...	...	...	p ●^{0} i d$_0$ *a* : c *p* : c to bc *n*.
17	St : St-Cu.	St : St-Cu.	St : St-Cu.	10	10	10	9	10	9	k	J	J	k	k	J	...	●^{0}	...	...	...	...	p ●^{2} to ●^{0} *a* : p ●^{0} to c *p* and *n*.
18	St:Cu:Nb:St-Cu.	St : St-Cu.	St : St-Cu.	10	10	10	9	9	8	J	I	k	k	J	l	...	d$_0$	...	d$_0$	d$_0$	...	i ● i d$_0$ *a* : i d$_0$ *p* : p ●^{0} *n*.
19	Cu : Nb : A-Cu.	Cu : St-Cu : A-Cu.	Cu-Nb : Cu.	9	9	9	7	7	6	k	k	k	k	k	k	...	...	...	...	...	...	p ●^{0} all day.
20	St : St-Cu : Ci-Cu.	St : Cu : St-Cu.	Fr-St:Cu:St-Cu:A-Cu.	9	9	8	8	4	4	l	l	l	l	l	l	...	...	...	...	...	...	Cloudy *a* : c to p ●^{0} *p* : bc ⌓ *n*.
21	St : St-Cu : A-St.	St : St-Cu.	St : St-Cu.	10	10	9	9	9	10	k	J	k	k	I	F	...	d$_0$	...	...	...	...	bc ⌓ to id$_0$ *a* : id$_0$ to c *p* : of m *n*.
22	St : St-Cu : A-St.	St : Nb.	St : St-Cu : A-St.	9	10	10	10	9	5	k	k	I	J	k	k	...	...	●^{0}	...	...	...	p ● to c *a* : continuous ●^{0} to p ●^{0} *p* : c to bc *n*.
23	St:St-Cu:A-St:A-Cu.	Cu:St-Cu:Ci-Cu:Ci.	St : St-Cu : A-St.	9	8	6	6	9	10	l	l	l	l	l	k	...	...	...	...	...	●^{0}	p ● to bc *a* : c to bc *p* : i ●^{0} *n*.
24	Nb : A-St.	St : St-Cu.	St : Nb : St-Cu.	10	10	9	10	10	10	J	h	k	J	I	G	●^{0}	●	...	●^{0}	●^{0}	d$_0$	i ●^{0} to continuous ●^{0} *a* : p ●^{0} d *p* : ● ●^{2} i d$_0$ *n*.
25	St : Nb : St-Cu.	St : St-Cu.	Cu : St-Cu.	10	10	9	7	8	8	I	J	l	l	m	m	●^{0}	...	...	...	...	...	i d$_0$ p ●^{0} to c *a* : c *p* : p ●^{0} *n*.
26	St : St-Cu.	Cu:St-Cu:A-Cu:Ci:St.	St : St-Cu : A-St.	9	7	8	10	10	9	m	m	m	m	m	m	...	...	...	...	...	...	⌓ early to c v *a* : c v to p ●^{0} *p* : p ●^{0} p ● *n*.
27	St:Cu-Nb:St-Cu.	Cu : St-Cu : A-St.	Cu : St-Cu : A-Cu.	9	6	9	7	9	9	k	k	l	l	l	l	...	...	...	...	...	...	p ● to bc *a* : c to p ●^{0} *p* : c p ●^{0} *n*.
28	St : St-Cu.	Cu : St-Cu : A-Cu.	Cu:St-Cu:A-St:Ci-St.	9	9	9	10	10	8	k	k	l	l	l	k	...	...	...	...	...	...	p ● to c *a* : c *p* : c to bc *n*.
29	St : Nb.	St : St-Cu.	St:Cu:St-Cu:A-St.	10	10	10	10	10	9	I	I	k	h	J	J	●^{0}	●^{0}	...	d$_0$	...	...	Continuous ●^{0} *a* : i ●^{0} i d$_0$ *p* : c p ●^{0} *n*.
30	St : St-Cu.	St : St-Cu : Ci.	St : St-Cu.	9	8	7	9	9	10	k	J	k	l	l	k	...	...	...	...	...	...	p ●^{0} *a* and *p* : i ●^{0} *n*.
31	St : A-St.	St : St-Cu : A-St.	St : St-Cu.	10	10	10	9	9	8	k	k	J	k	l	l	●^{0}	...	●^{0}	●^{0}	...	...	Continuous ●^{0} to p ●^{0} *a* : i ●^{0} *p* : c *n*.
Mean Cloud Am'nt.				8·3	8·1	8·1	7·8	7·9	8·1													

436. Cahirciveen (Valentia Observatory). **August, 1931.**

Day.	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the Weather of the Day.
	7h	13h	18h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	
1	Fr-St : St-Cu.	Cu:St-Cu:Ci-St:Ci.	Cu:A-Cu:Ci-Cu:Ci.	2	2	6	7	7	7	l	l	m	m	m	m	...	...	...	...	...	...	⌓ early : fair generally : v *p*.
2	St : St-Cu : Ci.	Cu : St-Cu : Ci.	Cu : Ci.	7	4	6	3	6	4	l	l	m	m	m	l	...	...	...	...	...	...	Fair to fine : ⌓ early : v *p*.
3	Ci.	Cu : Ci.	Fr-Cu : Cu.	3	1	1	4	1	1	k	k	k	k	k	k	...	...	...	...	...	...	Mainly fine : ⌓ early.
4	Cu : St-Cu.	Cu : A-Cu : Ci.	St-Cu : Ci.	1	1	3	4	8	4	k	k	k	k	k	k	...	...	...	...	...	...	Fine : ⌓ early.
5	Ci.	Ci.	Cu.	6	2	1	1	1	1	k	k	k	k	k	k	...	...	...	...	...	...	Fine : ⌓ early.
6	St : A-Cu.	St : Cu : St-Cu.	St : St-Cu.	8	4	7	8	9	9	k	l	l	l	k	k	...	...	...	...	...	...	Fair : ⌓ early.
7	St : St-Cu.	St : St-Cu.	St : St-Cu.	9	9	9	10	9	10	l	l	l	k	l	k	...	...	...	●^{0}	...	...	⌓ early c *a* : ●^{0} p ●^{0} *p* : p ● i ● *n*.
8	Nb : St-Cu.	Cu-Nb:Cu:St-Cu.	Cu : St-Cu.	9	9	6	8	9	6	k	k	l	l	l	l	●^{0}	...	...	...	...	...	i ●^{0} p ● *a* : p ●^{0} to c *p* : fair *n*.
9	St : St-Cu.	Cu : Nb : St-Cu.	St : Nb : St-Cu.	9	10	9	9	10	10	l	k	k	l	J	k	...	...	...	...	●^{0}	...	p ●^{0} all day.
10	St : St-Cu.	St : St-Cu.	St : St-Cu : Ci.	10	10	10	9	8	9	J	k	k	k	l	l	...	...	●^{0}	...	...	...	p ●^{0} *a* and *p* : c *n*.
11	St : St-Cu.	Cu:St-Cu:A-St:Ci.	St:St-Cu:A-Cu-lent:Ci	10	6	9	9	9	8	m	m	l	l	l	k	...	...	...	...	...	...	Fine to cloudy : v *a*.
12	St : St-Cu.	Cu : St-Cu.	Cu : St-Cu : Ci.	9	4	2	3	5	3	k	l	l	l	l	l	...	...	...	...	...	...	Fair to fine : ⌓ *n*.
13	St : St-Cu.	St : St-Cu : A-St.	St : St-Cu : A-St.	10	10	10	10	10	10	m	m	l	l	k	k	...	...	...	...	●^{0}	...	⌓ early : i ●^{0} *p* and *n*.
14	St : St-Cu.	St : Cu : St-Cu : Ci.	Cu : St-Cu : Ci.	9	9	6	6	6	7	k	k	k	l	k	l	...	...	...	...	...	...	●^{0} to p ●^{0} *a* : fair *p* and *n*.
15	St : Nb.	St : Cu : St-Cu.	St : Nb.	10	10	9	10	10	9	k	J	k	J	J	k	...	●^{0}	...	●	...	●^{0}	Continuous ● to p ●^{0} *a* : i ● i ●^{0} *p* and *n*.
16	St : St-Cu.	St:Cu:St-Cu:A-Cu.	St : Cu : St-Cu : Ci.	10	10	9	10	7	9	k	J	k	J	k	k	...	●^{0}	...	...	...	...	●^{0} p ●^{2} *a* : p ● p ●^{0} *p* and *n*.
17	St:Cu-Nb:St-Cu.	Cu : St-Cu.	Cu : St-Cu.	6	5	3	6	5	2	k	l	m	l	l	l	...	...	...	...	...	...	p ●^{0} early otherwise fair to fine : ⌓ *n*.
18	St:Cu:St-Cu:Ci.	Cu:St-Cu:Ci-Cu:Ci.	St : St-Cu : A-St.	8	7	6	7	9	10	k	k	k	l	l	k	...	...	...	...	...	●^{0}	⌓ early : fair to cloudy *a* and *p* : i ●^{0} *n*.
19	St : Nb : St-Cu.	St : St-Cu.	Nb : St-Cu : A-Cu.	9	10	10	10	9	10	J	J	k	J	k	J	...	●	●^{0}	...	●^{0}	●^{0}	●^{2} to p ●^{0} *a* : p ●^{0} *p* : p ●^{0} p ● *n*.
20	St : Nb.	St : Nb : St-Cu.	St : Nb : St-Cu.	10	10	10	10	8	10	J	J	k	J	J	J	●^{0}	●^{0}	...	●^{0}	...	●^{0}	Continuous ● ●^{0} *a* : i ●^{0} to p ●^{0} *p* : p ●^{0} *n*.
21	St : St-Cu.	Cu:St-Cu:A-Cu:Ci.	Cu:St-Cu:A-Cu:Ci.	9	7	7	8	8	7	l	l	l	l	l	l	...	...	...	...	...	...	Fair generally : p ● early *a* and *p*.
22	St-Cu : A-Cu : Ci.	Cu : St-Cu.	Cu.	6	3	2	1	1	3	l	l	m	m	m	l	...	...	...	...	...	...	Fine : ⌓ early *a* and *n* : v y *p*.
23	Cu : Ci.	Cu : St-Cu.	Cu : St-Cu : Ci.	2	3	9	6	5	1	l	l	l	l	l	l	...	...	...	...	...	...	Fair to fine : ⌓ early *a*.
24	Cu : Ci.	Cu : St-Cu.	Cu.	1	2	3	4	2	1	k	k	k	k	k	k	...	...	...	...	...	...	Fine : ⌓ early : y *p*.
25	—	Cu : St-Cu.	Cu : Ci.	0	0	3	2	1	2	l	l	l	l	l	k	...	...	...	...	...	...	Fine : ⌓ early *a* and *n* : y *p*.
26	Cu : Ci-St : Ci.	Cu : St-Cu.	St:St-Cu:A-St:A-Cu.	7	4	9	10	10	5	m	m	l	l	l	l	...	...	...	...	...	...	Fair to cloudy : ⌓ early.
27	St : A-St.	St : A-St.	St : St-Cu : A-St.	10	10	10	10	10	10	l	k	k	k	k	k	...	●^{0}	...	...	...	...	●^{0} *a* : c *p* and *n*.
28	St : St-Cu.	St : St-Cu.	St:St-Cu:A-Cu:Ci.	9	10	9	8	8	10	k	k	k	k	k	J	...	●^{0}	...	...	...	●	i ●^{0} to c *a* : c *p* : c to i ● *n*.
29	St : St-Cu.	St : St-Cu.	St : St-Cu.	8	4	7	8	9	5	J	k	k	k	k	J	...	...	...	...	...	...	p ● to bc *a* : c *p* : c to bc *n*.
30	St-Cu : A-Cu.	Cu : St-Cu : A-Cu.	Cu : St-Cu : A-Cu.	9	10	7	6	9	7	J	J	k	k	k	J	...	●^{0}	...	...	...	...	⌓ bc to ●^{0} *a* : c to bc *p* : c to b ⌓ *n*.
31	St-Cu : A-Cu.	Cu : St-Cu.	St : St-Cu.	6	0	3	3	8	9	J	J	k	k	J	J	...	...	...	...	...	...	⌓ fine *a* : fair *p* : c *n*.
Mean Cloud Am'nt.				7·2	6·0	6·5	6·8	7·0	6·4													

Day.	7h	13h	18h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						

NOTE.—Visibility in these tables refers to a landwards direction : visibility seawards, when it differs from visibility landwards, is given on p. 272.

437. Cahirciveen (Valentia Observatory). September, 1931.

Day.	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the Weather of the Day.
	7h	13h	18h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	
1	St : St-Cu : A-Cu.	Cu : St-Cu : Ci.	St : St-Cu.	8	7	3	9	9	7	k	k	l	k	J	J	...	...	...	...	●^{0}	...	●^{0} to c *a* : c to bc *p* : i ●^{0} *n*.
2	St : Cu : St-Cu.	St : St-Cu : A-St.	St : St-Cu.	9	8	9	8	9	9	k	k	l	l	l	l	...	...	...	...	●^{0}	...	p ●^{0} *a* : i ●^{0} *p* and *n*.
3	Nb : St-Cu.	St : Nb.	St : St-Cu.	9	10	10	10	9	6	I	I	J	k	l	l	●^{0}	...	●^{0}	...	...	...	p ●^{0} to i ●^{0} *a* : ●^{0} to c *p* : p ●^{0} *n*.
4	Cu:St-Cu:A-St:A-Cu.	Cu : St-Cu.	Cu : St-Cu.	8	8	6	5	2	3	l	l	l	l	l	l	●^{0}	...	...	...	...	...	p ● p ●^{0} all day.
5	Cu-Nb : Cu.	Cu-Nb:Cu:St-Cu.	Cu : St-Cu.	6	6	2	6	2	1	l	l	m	m	l	l	...	...	...	...	...	...	p ●^{0} to bc *a* and *p* : b to p ●^{0} *n*.
6	Cu : Ci.	Cu : Ci-Cu : Ci.	Cu.	4	7	6	3	1	1	m	m	m	m	m	m	...	...	...	...	...	...	Fair v *p* : ⌓ *n*.
7	Cu : Ci.	Cu : St-Cu.	Cu : St-Cu.	1	1	4	2	3	1	m	m	m	m	m	m	...	...	...	...	...	...	⌓ early *a* and *n* : fine : v all day.
8	St-Cu.	St-Cu.	St-Cu.	9	8	7	8	5	7	m	m	m	m	m	m	...	...	...	...	...	...	⌓ early *a* and *n* : v y *p* : fair.
9	St-Cu : A-Cu.	St-Cu : A-Cu.	St-Cu : A-Cu.	9	9	9	9	9	8	l	l	m	m	m	m	...	...	...	...	...	...	⌓ early and late : v y *p* : fair.
10	Cu : Ci-Cu : Ci.	St : Cu : St-Cu.	Cu : St-Cu : A-Cu.	6	3	5	4	3	1	m	m	m	m	m	m	...	...	...	...	...	...	Fine : ⌓ early and late : v all day.
11	Cu : A-Cu.	Cu : St-Cu : A-St.	St-Nb.	6	8	10	10	10	10	m	l	l	l	l	k	...	...	...	...	●	●^{0}	b ⌓ to c *a* : p ●^{0} *p* : ●^{0} i ● *n*.
12	St : Nb.	St : Nb.	St.	10	10	10	10	10	8	h	G	h	h	h	J	●	●	●^{0}	d$_0$	●^{0}	●^{0}	Continuous ● *a* : ●^{0} d$_0$ *p* : i ●^{0} to p ●^{0} *n*.
13	St.	St : St-Cu.	St.	10	10	9	10	10	10	G	h	J	F	E	F	d$_0$	d	...	...	...	d$_0$	i d *a* : c to o f m *p* : o f m i d$_0$ *n*.
14	St : St-Cu.	St : St-Cu.	St : St-Cu.	10	10	10	10	9	10	J	k	J	J	I	G	...	...	...	...	...	...	o to c *a* and *p* : o m$_0$ to bc *n*.
15	St : St-Cu.	St-Cu.	A-Cu.	9	9	9	3	6	9	F	k	l	l	l	l	...	...	...	...	...	...	bc to o f to c *a* : c to bc *p* and *n*.
16	St : St-Cu.	St:St-Cu:A-St:Ci-Cu.	St : St-Cu : A-St.	9	9	9	10	10	10	k	k	k	I	J	J	...	...	...	●	...	...	p ● to c *a* : ● ●^{0} *p* : p ●^{0} continuous ●^{0} *n*.
17	St.	St.	St.	10	10	10	10	10	10	G	D	D	D	D	D	d	...	...	d	...	...	●^{0} d f m *a* : continuous f *p* and *n*.
18	St.	St : St-Cu.	St.	10	10	8	10	10	5	E	E	k	k	I	h	...	d$_2$	...	...	...	...	F d$_2$ d$_0$ *a* : d$_0$ to c *p* : o to bc ⌓ *n*.
19	St : St-Cu.	St : St-Cu.	Cu : St-Cu : Ci.	6	7	9	9	2	2	k	k	k	k	l	l	...	...	...	...	...	...	b ⌓ to c *a* : c to bc *p* : bc ⌓ *n*.
20	Ci.	A-Cu.	Cu : Ci.	1	1	1	1	1	0	m	m	m	m	m	m	...	...	...	...	...	...	Fine : ⌓ early and late : v y *a* and *p*.
21	Fr-St:A-St:A-Cu:Ci-Cu.	Cu:St-Cu:A-Cu:Ci	Fr-Cu : Ci.	7	9	4	4	5	1	k	k	l	l	m	m	...	...	...	...	...	...	b ⌓ to c *a* : bc *p* : bc to b ⌓ *n*.
22	Cu : A-Cu : Ci.	Fr-Cu : Ci.	Ci.	7	6	2	1	2	1	m	l	l	m	m	l	...	...	...	...	...	...	b ⌓ early *a* and *n* : fair to fine : y *p*.
23	—	Fr-Cu.	Fr-Cu : Ci.	0	0	1	1	1	1	l	l	m	m	m	m	...	...	...	...	...	...	Fine : ⌓ early *a* and *n*.
24	—	St : St-Cu.	St : St-Cu.	0	0	9	10	10	4	l	l	l	l	k	k	...	...	...	...	...	...	⌓ early *a* : fine to fair.
25	St : St-Cu.	St : St-Cu.	St : St-Cu.	10	10	10	10	10	10	l	l	k	J	J	I	...	...	...	...	...	...	bc early *a* otherwise cloudy.
26	St : St-Cu.	St : St-Cu.	St : St-Cu.	9	8	10	10	9	10	J	J	J	J	J	J	...	...	...	...	...	...	c *a* and *p* : c to bc ⌓ *n*.
27	St : St-Cu.	Cu : St-Cu.	St-Cu.	10	10	8	8	9	9	J	J	J	k	k	J	...	...	...	...	...	...	bc ⌓ to c *a* : c *p* and *n*.
28	St : St-Cu.	St : St-Cu.	St : St-Cu.	10	10	10	10	9	10	J	J	J	J	J	J	...	...	...	...	...	...	⌓ early *a* : cloudy all day.
29	St · St-Cu : A-St.	St : Nb.	St : Nb.	10	10	10	10	6	10	J	J	J	k	h	I	...	●^{0}	●^{0}	...	●	...	c to ●^{0} *a* : ●^{0} i ● *p* : ● to continuous ●^{2} *n*.
30	Cu : St-Cu.	St : Cu : St-Cu.	St : Cu-Nb : Ci.	3	3	6	7	6	5	l	l	l	l	l	l	...	...	...	...	...	...	i ●^{0} to bc *a* : p ●^{0} to bc *p* and *n*.
Mean Cloud Am'nt.				7·2	7·2	7·2	7·3	6·6	6·0													

438. Cahirciveen (Valentia Observatory). October, 1931.

Day.	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the Weather of the Day.
	7h	13h	18h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	
1	Nb : A-St.	St : St-Cu.	St : St-Cu.	10	10	10	10	10	10	k	J	J	k	I	I	●^{0}	●^{0}	...	...	...	d	● ●^{0} *a* : i d$_0$ i d *p* and *n*.
2	Nb : St-Cu.	St-Cu : A-Cu : Ci.	Cu : Ci.	10	9	6	7	4	1	J	l	l	l	l	l	...	...	...	...	...	...	i d i ●^{0} to bc *a* : c to b *p* and *n*.
3	St:A-Cu:Ci-Cu:Ci.	St : St-Cu.	St : Nb.	6	7	9	10	10	10	k	k	l	G	G	I	...	...	...	●^{0}	d$_0$	d	⌓ early, fair *a* : ●^{0} and d *p* and *n*.
4	St : Nb.	St : Nb.	St : Nb : St-Cu.	10	10	10	10	10	10	J	J	h	G	h	h	...	...	d	...	d	...	i d p ●^{0} *a* : i d$_0$ *p* : i d$_0$ to continuous d$_0$ *n*.
5	St : Nb : St-Cu.	St.	St : St-Cu.	10	10	10	10	10	10	h	h	h	J	J	h	d	●^{0}	d	...	...	d$_0$	Continuous d ●^{0} *a* : i d$_0$ i d *p* and *n*.
6	St : Nb : St-Cu.	St : Nb : St-Cu.	Cu : St-Cu : Ci.	10	10	9	9	6	3	J	I	k	k	l	l	●	●^{0}	...	...	...	...	i d to p ●^{2} *a* : p ●^{0} to bc *p* and *n*.
7	St:Cu-Nb:Cu:Nb.	Cu:St-Cu:A-Cu:Ci	St : Nb.	7	6	3	2	7	10	l	l	l	l	k	k	●^{0}	...	...	...	...	●^{0}	p ▲ q to bc *a* : p ●^{0} to bc *p* : i ●^{0} i ● *n*.
8	St : Nb · St-Cu.	St : St-Cu.	St : St-Cu.	10	9	10	8	10	9	J	k	k	k	k	k	...	...	...	...	...	...	i ●^{0} to c *a* : c *p* : p ●^{0} *n*.
9	St : Nb.	St : St-Cu.	Fr-Cu : A-Cu.	10	10	10	9	3	1	h	I	J	k	k	l	●	●^{0}	...	●^{0}	...	...	i ● to continuous ● *a* : p ●^{0} *p* : bc to b *n*.
10	St.	Cu : St-Cu : Ci.	Cu : Fr-Cu : Ci.	1	4	6	6	2	8	k	k	l	l	l	l	...	...	...	...	...	...	⌓ early : fair to fine.
11	St : St-Cu.	St : St-Cu.	St : St-Cu.	9	10	10	9	9	10	k	k	J	k	k	J	...	...	...	...	...	●	⌓ early : mainly cloudy : i ● *n*.
12	St : St-Cu.	St : Nb.	St : A-Cu : Ci.	10	10	10	9	1	4	J	k	h	l	l	l	...	●^{0}	●	...	...	...	p ●^{0} to ● *a* : ● to bc *p* : bc to c p ● *n*.
13	St : Cu : St-Cu.	Cu : Ci.	Cu:St-Cu:Ci-St:Ci.	6	2	6	4	9	1	l	l	m	l	l	l	...	...	...	...	...	...	p ● early otherwise fair to fine.
14	Ci.	Cu : St-Cu : Ci.	St-Cu : A-Cu : Ci.	3	8	6	7	3	1	l	l	l	l	l	l	...	...	...	...	...	...	⌓ early : fair to fine.
15	St-Cu : Ci.	Cu : St-Cu : Ci.	Cu : St-Cu : Ci.	2	6	6	6	3	2	m	m	k	k	J	l	...	...	...	...	...	...	⌓ early : mainly fine.
16	Fr-Cu.	A-Cu.	A-Cu-lent.	1	0	1	1	3	1	l	l	l	l	l	l	...	...	...	...	...	...	⌓ early : fine.
17	St : St-Cu.	St : Cu : St-Cu.	St : St-Cu.	10	9	6	10	10	6	J	J	J	J	J	J	...	...	...	...	...	...	Fair to cloudy.
18	St : St-Cu.	St : St-Cu.	St : St-Cu.	9	10	10	10	10	10	k	k	J	k	J	J	...	...	...	...	...	...	Mainly cloudy.
19	St-Cu.	St-Cu.	St : St-Cu.	7	7	10	10	10	10	k	k	k	k	k	k	...	...	...	...	...	...	⌓ early : cloudy.
20	St : St-Cu.	St : St-Cu.	St : St-Cu.	10	6	9	10	9	2	k	l	l	J	l	l	...	...	...	...	...	...	⌓ early, fair to cloudy *a* : c j p *p* : c to bc *n*.
21	Fr-Cu : A-Cu.	St-Cu : Ci.	Fr-Cu : Cu : Ci.	8	8	8	7	3	6	l	l	l	l	l	l	...	...	...	...	...	...	Fair to cloudy.
22	St-Cu : A-Cu : Ci.	St-Cu.	St-Cu : A-Cu.	8	8	9	10	9	9	l	l	k	k	k	k	...	...	...	...	...	...	Mainly cloudy.
23	St : St-Cu : A-St.	St : St-Cu : A-St.	St : St-Cu : A-St.	10	10	10	10	10	8	k	k	J	J	J	l	...	●^{0}	●^{0}	●^{0}	...	...	p ●^{0} i ●^{0} *a* : continuous ●^{0} *p* : c *n*.
24	Cu : Ci	Cu : Fr-Cu.	Fr-Cu : St-Cu.	2	1	2	1	1	1	l	m	m	m	m	m	...	...	...	...	...	...	p ●^{0} early, otherwise fine : v *a* and *p*.
25	—	Cu.	Cu.	0	0	1	1	1	0	m	m	m	m	m	m	...	...	...	...	...	...	⊔ early : fine : v *a* and *p* : y *p*.
26	Fr-Cu.	Fr-Cu : St-Cu : Ci.	Cu : St-Cu : Ci.	1	1	2	3	6	10	m	m	m	m	m	l	...	...	...	...	...	●^{0}	⊔ b to bc v *a* : bc v *p* : i ●^{0} *n*.
27	St : Nb : St-Cu.	St : Nb : St-Cu.	St : St-Cu.	9	10	10	9	8	9	l	l	k	l	l	l	...	...	●	...	...	...	● p ● *a* : p ● to c *p* : c *n*.
28	St : St-Cu.	St : St-Cu : A-St.	St : St-Cu.	9	9	9	10	10	9	k	k	k	k	I	k	...	...	...	...	●^{0}	...	p ● p ●^{0} all day.
29	St : St-Cu : A-Cu.	Cu : Ci.	St : St-Cu.	7	8	4	8	9	6	k	l	l	l	l	l	...	...	...	...	...	...	c to bc all day.
30	St : St-Cu.	Cu : St-Cu : Ci.	St : St-Cu : Ci.	9	4	3	2	8	10	k	k	l	l	l	l	...	...	...	...	...	...	c to bc *a* and *p* : continuous ●^{0} *n*.
31	Nb : St-Cu.	St : St-Cu.	St : Cu : St-Cu.	10	8	9	9	9	8	k	k	k	k	k	k	...	...	...	...	...	...	Continuous ● early otherwise cloudy.
Mean Cloud Am'nt.				7·2	7·1	7·2	7·4	6·9	6·3													
Day.	7h	13h	18h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						

NOTE.—Visibility in these tables refers to a landwards direction ; visibility seawards, when it differs from visibility landwards, is given on p. 279.

439. Cahirciveen (Valentia Observatory). November, 1931.

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms) 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	Cu : St-Cu : Ci-Cu.	St : Nb.	St : Nb.	9	9	10	10	10	10	k	k	G	G	I	G	...	...	●	●^{0}	●^{0}	●^{2}	c *a* : ● ●^{0} *p* : continuous ●^{0} ●^{2} *n*.
2	St : Nb.	St : St-Cu	St : Nb.	10	10	9	10	10	10	J	I	k	I	h	J	...	●	...	●	●	...	●^{2} to i ● *a* : ● ●^{0} *p* : i ● i ●^{2} *n*.
3	St : Nb.	St : St-Cu : A-St.	St : St-Cu.	10	10	9	10	10	10	J	J	l	k	k	J	●	●	...	...	...	●	●^{2} continuous ● *a* : c *p* : c to continuous ● *n*.
4	Cu : St-Cu.	Cu : St-Cu : Ci.	Cu : St-Cu.	5	8	7	9	9	3	k	k	l	l	k	k	...	...	...	...	...	...	p ●^{0} p ● *a* and *p* : p ●^{2} ▲^{2} *n*.
5	Cu-Nb : St-Cu.	Nb : St-Cu : A-St.	St : Nb : A-St.	4	7	10	10	10	10	l	l	l	l	J	I	...	...	...	...	●	●	p ●^{2} ▲^{2} to bc *a* : c *p* : i ● i ●^{2} *n*.
6	Cu : St-Cu : A-Cu.	St : Cu : Nb.	St : Cu-Nb : St-Cu : Ci.	4	4	9	7	4	1	l	l	l	l	l	l	...	...	●^{0}	...	...	...	p ●^{0} all day.
7	Cu : St-Cu : Ci-Cu : Ci	St : St-Cu.	St : Nb : A-St.	4	8	10	10	10	7	l	m	l	k	J	l	...	...	●^{0}	●^{0}	...	...	bc to i ●^{0} *a* : continuous ● to ●^{0} *p* : i ● *n*.
8	St-Cu.	Cu : St-Cu : Ci-Cu.	St-Cu.	4	4	4	1	2	2	l	l	l	l	l	l	...	...	...	...	...	...	Fair to fine all day : ⌓ *n*.
9	St : Nb : A-St.	St : St-Cu : A-St : A-Cu.	Cu-Nb : Nb : A-St.	8	6	7	9	7	10	l	l	l	l	k	k	...	...	...	...	...	...	Continuous ● q to bc *a* : p ●^{2} ▲^{2} to p ●^{0} *p* and *n*.
10	Cu : St-Cu : Ci.	Cu-Nb : Nb : A-St.	Cu-Nb : Nb.	4	7	9	8	6	3	l	k	k	l	k	l	...	...	●^{0}	...	...	...	p ●^{2} to p ●^{0} *a* : p ●^{0} p ● *p* : p ● *n*.
11	Cu : St-Cu : Ci-St.	Cu-Nb : Nb : Ci.	St : Cu-Nb : St-Cu.	8	8	8	7	5	4	l	l	l	l	l	l	...	...	●	...	...	...	p ●^{2} to c *a* : p ● *p* : bc *n*.
12	Cu : St-Cu.	St : Cu-Nb : St-Cu.	Cu-Nb : Cu.	6	5	8	6	1	3	l	l	l	l	l	l	...	●^{0}	...	...	...	...	p ●^{0} all day.
13	Cu : St-Cu : A-St.	St : St-Cu : A-St : Ci.	St : Nb.	8	9	9	10	10	10	l	l	l	J	I	k	...	...	...	●	●	...	bc to p ●^{0} *a* : c to continuous ● *p* : ● to c *n*.
14	Cu : St-Cu : A-Cu.	St : St-Cu : A-St.	St : St-Cu.	5	6	9	10	8	3	l	l	l	I	l	l	...	●^{0}	...	●^{2}	...	...	p ●^{0} p ● *a* : p ●^{2} to c *p* : p ●^{0} *n*.
15	Cu : St-Cu.	Cu : St-Cu : A-Cu : Ci-Cu.	Ci.	3	3	7	9	1	2	l	l	l	m	l	l	...	...	...	...	...	...	⊔ early : fair to fine : ⌓ *n*.
16	Cu : A-St : A-Cu.	Cu : Ci-St.	St : St-Cu.	2	9	9	9	10	10	l	l	l	l	l	l	...	...	...	...	...	●^{0}	⌓ b to c *a* : c *p* : i ●^{0} *n*.
17	St : Nb.	St : Nb.	St : Nb.	10	10	10	10	10	10	J	I	h	h	h	h	●	●	●	●	●	●	c to continuous ● *a* : continuous ● *p* and *n*.
18	St : Nb.	Cu-Nb : Cu : A-St.	Nb : St-Cu.	10	9	2	2	7	6	k	l	m	m	l	l	●	...	...	...	●^{0}	...	● to bc *a* : bc p ●^{0} *p* : p ●^{0} p ●^{2} *n*.
19	Cu : St-Cu.	Nb.	Cu-Nb : Cu : St-Cu.	10	8	9	9	3	2	k	l	l	l	l	l	...	●^{0}	●	●^{0}	...	...	p ●^{2} to p ●^{0} *a* : i ●^{0} to bc *p* : bc to b ⌓ *n*.
20	Cu : Nb.	Nb : St-Cu.	Cu-Nb : Cu.	8	9	10	10	2	7	l	l	l	k	l	l	...	...	●^{0}	...	...	...	⌓ b to p ●^{0} *a* : i ● to p ● *p* : p ● *n*.
21	Cu : St-Cu.	Cu : Nb : St-Cu.	Cu-Nb : Cu.	4	0	4	7	3	2	l	l	l	m	m	m	...	...	...	...	...	...	p ●^{0} p ▲ *a* : p ●^{0} *p* and *n*.
22	St-Cu : Ci-St.	Nb : St-Cu : A-St.	Nb : St-Cu : A-St.	9	10	10	10	10	10	l	l	l	l	k	I	...	...	...	...	●^{0}	●^{2}	b to c *a* : i ● *p* : ɯ continuous ● ●^{2} *n*.
23	St.	St : Nb : A-St.	Cu.	10	10	10	8	3	4	J	k	k	l	l	l	●^{0}	●^{0}	●^{0}	...	...	...	c to continuous ●^{0} *a* : ●^{0} to bc *p* : bc *n*.
24	St : Nb.	St : St-Cu.	St : St-Cu.	10	10	10	9	9	9	k	J	J	J	k	k	...	●	...	...	●^{0}	...	i ● to c *a* : c to p ●^{0} *p* : p ● *n*.
25	St-Cu : A-St.	St : A-St.	St : A-St.	10	9	10	9	8	9	l	k	J	k	k	l	...	...	●	...	...	...	p ●^{0} to i ● *a* : continuous ● to c *p* : c *n*.
26	Cu : St-Cu.	St : Nb : A-St.	St : Cu : St-Cu.	8	10	10	9	5	9	k	l	l	l	l	l	...	●^{0}	...	...	...	●	●^{0} to p ●^{2} ▲ q *a* : p ●^{0} to bc *p* : p ● *n*.
27	Cu : St-Cu : A-Cu.	St : Nb.	St.	7	5	10	10	10	10	l	k	J	J	h	h	...	...	●	...	d	d$_0$	p ● to ● *a* : i ●^{0} to d *p* : continuous d$_0$ *n*.
28	St.	St.	St : St-Cu.	10	10	10	10	10	10	G	I	I	I	I	G	●^{0}	...	...	...	...	●^{0}	Continuous ●^{0} to o *a* : c *p* : ● ●^{0} *n*.
29	Cu : St-Cu.	Cu : Ci-Cu : Ci.	St-Cu : A-Cu : Ci.	3	7	4	3	5	8	l	l	l	l	l	l	...	...	...	...	...	...	Fair all day.
30	Cu : St-Cu.	Cu : St-Cu : Ci.	Cu : Ci.	2	4	4	3	4	6	l	l	l	l	l	l	...	...	...	...	...	...	p ●^{0} to bc *a* : bc *p* : bc to c *n*.
Mean Cloud Am'nt.				6·8	7·5	8·2	8·1	6·7	6·7													

440. Cahirciveen (Valentia Observatory). December, 1931.

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms) 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	St	St : St-Cu.	St : St-Cu.	10	10	9	10	10	10	I	h	J	k	k	k	●^{0}	●^{0}	d$_0$	...	...	●^{0}	Continuous ●^{0} and d *a* : i d$_0$ to c *p* : i ●^{0} to c *n*.
2	St : St-Cu.	St : Nb.	St : St-Cu.	10	10	10	9	9	10	J	I	G	k	k	J	...	●	●	...	...	●^{0}	Continuous ● *a* : ● to c *p* : i ●^{0} to ● *n*.
3	St : Nb.	St : St-Cu : A-St.	St : St-Cu.	10	9	10	10	10	10	J	J	k	k	k	I	●	...	...	...	●^{0}	●^{0}	ɯ i ● to c *a* : c to p ●^{0} *p* : ●^{0} to i ● *n*.
4	St.	St : St-Cu.	Cu : St-Cu : A-Cu.	10	9	7	4	6	10	I	J	k	k	k	k	●^{0}	...	...	...	...	...	Continuous ●^{0} to c *a* : ɯ c to bc *p* : p ●^{0} to c y *n*.
5	St : St-Cu : A-St.	St : St-Cu : A-St.	St : Nb : A-St.	10	10	9	10	10	4	k	k	l	J	k	l	...	...	●^{0}	●^{0}	●	...	c *a* : ● ●^{0} *p* : p ▲ *n*.
6	St-Cu : Ci.	Cu : St-Cu : Ci-Cu : Ci.	Cu : St-Cu.	4	7	6	4	3	1	l	l	l	l	l	l	...	...	...	...	...	...	i ● to bc *a* : p ●^{0} *p* : p ▲ ● *n*.
7	St-Cu : Ci.	St : St-Cu.	St : Nb.	4	9	9	9	10	10	l	l	m	l	I	k	...	...	...	...	●	...	b to p ●^{0} *a* : c *p* : ● to c *n*.
8	St : St-Cu : Ci.	Cu-Nb : Cu.	Cu-Nb : Cu : St-Cu.	4	9	4	6	4	1	k	k	l	l	l	l	...	...	...	...	...	...	p ▲ ● *a* : bc to p ● *p* : bc to b *n*.
9	Cu : St-Cu.	Cu : Nb : A-St : Ci.	St : St-Cu.	2	7	7	9	10	10	I	l	l	l	k	I	...	...	...	...	●^{0}	d$_0$	⌓ b to p ●^{0} *a* : p ●^{0} *p* : continuous d$_0$ *n*.
10	St.	St : St-Cu.	St : St-Cu.	10	10	9	10	10	10	J	I	k	l	k	k	...	d	...	...	...	...	i d$_0$ all day.
11	St.	St : St-Cu.	St : St-Cu.	10	10	9	9	8	7	J	k	J	k	k	k	...	...	d$_0$	...	...	...	i d$_0$ all day.
12	St : St-Cu.	St : St-Cu.	St : St-Cu.	8	10	10	10	10	10	k	k	l	l	l	l	...	...	...	...	...	...	i ●^{0} i d$_0$ *a* : c *p* : i d$_0$ *n*.
13	St	St : St-Cu.	St : St-Cu.	9	10	10	10	10	10	h	J	k	k	k	k	d$_0$	d$_0$	...	...	...	...	i d$_0$ *a* and early *p* : c *n*.
14	St : St-Cu.	St : St-Cu.	St : St-Cu.	10	10	10	10	10	10	k	k	k	k	k	k	...	...	...	...	...	...	Cloudy all day.
15	St : St-Cu.	St-Cu.	St-Cu.	10	10	9	9	9	10	l	m	m	m	m	m	...	...	...	...	...	...	Cloudy all day.
16	St-Cu.	St : St-Cu.	St : St-Cu.	10	10	10	10	10	10	l	l	l	l	l	l	...	...	...	...	...	...	Cloudy all day.
17	St : St-Cu.	St : St-Cu.	St : St-Cu.	10	9	9	10	10	10	l	l	k	J	k	k	...	...	d$_0$	d	...	...	c *a* and *n* : i d$_0$ i d *p*.
18	St : St-Cu.	St : St-Cu : A-St.	St : St-Cu : A-St.	10	10	10	10	10	10	k	k	k	k	k	k	...	...	●^{0}	...	...	...	p ●^{0} i ●^{0} *a* : i ●^{0} *p* : c *n*.
19	St : St-Cu.	St : St-Cu.	St : St-Cu : A-Cu.	10	10	9	9	8	8	k	J	k	k	k	k	...	●^{0}	...	...	...	...	●^{0} to i ●^{0} *a* : c *p* : c to bc *n*.
20	St-Cu : A-St : A-Cu.	Cu : St-Cu : A-St : A-Cu.	Cu : St-Cu : A-Cu.	8	9	9	8	4	9	k	k	k	k	k	k	...	...	...	...	...	...	p ●^{0} to c *a* : c to bc *p* and *n*.
21	St-Cu : Ci-St : Ci.	St : St-Cu : A-St.	St : St-Cu.	9	9	9	9	9	4	k	k	l	l	l	l	...	...	...	...	...	...	p ●^{0} i ●^{0} *a* and *p* : i ●^{0} to bc *n*.
22	Cu : St-Cu : Ci.	Cu : St-Cu : A-Cu : Ci.	St : St-Cu.	4	8	7	9	10	10	l	l	l	k	k	k	...	...	...	...	...	...	bc to c *a* : c *p* : c to p ●^{0} *n*.
23	St : Nb.	St : Nb : St-Cu.	St : Nb.	10	10	10	10	10	10	h	h	I	I	J	I	●^{0}	●	●	●	...	●	Continuous ● to i ●^{0} *a* : continuous ● *p* : ● to c *n*.
24	St.	St	St.	10	10	10	10	10	10	I	I	J	J	I	I	●^{0}	●^{0}	...	...	d$_0$	...	●^{0} *a* : i d$_0$ *p* and *n*.
25	St : Nb.	St.	St : St-Cu : A-Cu.	10	10	10	10	4	9	J	h	h	G	k	k	●^{0}	●^{0}	d$_0$	●^{0}	...	...	Continuous ●^{0} d$_0$ *a* : ●^{0} to bc *p* : bc to i d *n*.
26	St.	St : St-Cu.	St : St-Cu.	10	10	9	9	10	10	h	J	k	l	l	l	...	...	...	...	...	...	i d i d$_0$ *a* : c *p* and *n*.
27	St : St-Cu.	St : St-Cu.	St : St-Cu.	10	10	9	10	10	10	l	l	l	l	l	l	...	...	...	...	...	...	Cloudy all day : q *p*.
28	St : St-Cu.	St : St-Cu.	Nb : St-Cu.	10	10	10	9	9	5	J	k	l	k	k	k	...	...	...	●^{0}	●^{0}	...	c to i ●^{0} *a* : p ●^{0} *p* : p ●^{0} ▲ q *n*.
29	Cu-Nb : Nb.	St : Cu-Nb : Nb.	Cu-Nb : Nb.	9	8	7	7	4	4	k	k	l	l	k	k	...	...	...	...	▲	...	q p ● ▲ ▲^{2} *a* : q p ● ▲ *p* and *n*.
30	Cu-Nb : Nb.	St : Cu-Nb : S-Cu.	Cu-Nb.	9	6	8	3	2	3	I	l	l	m	l	l	*	...	...	...	...	...	p ▲ p ●^{0} *a* : p ● p ●^{0} *p* : p ● to bc *n*.
31	Cu : St-Cu : A-Cu : Ci.	St : Ci-St.	St : Nb.	6	7	9	10	10	10	l	k	k	J	I	J	...	...	...	●^{0}	●^{2}	d$_0$	⊔ bc to p ●^{0} *a* : ●^{0} to ●^{2} *p* : i d$_0$ *n*.
Mean Cloud Am'nt.				8·6	9·2	8·8	8·8	8·4	8·2													
Mean An'ual Cloud Am'nt.				7·8	7·8	7·8	7·7	7·4	7·2													
	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the Weather of the Day.

NOTE.—Visibility in these tables refers to a landwards direction : visibility seawards when it differs from visibility landwards, is given on p. 279.

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Air Ministry

METEOROLOGICAL OFFICE

THE OBSERVATORIES' YEAR BOOK 1931

Comprising the meteorological and geophysical results obtained from autographic records and eye observations at the observatories at Lerwick, Aberdeen, Eskdalemuir, Cahirciveen (Valentia Observatory), and Richmond (Kew Observatory), and the results of soundings of the upper atmosphere by means of registering balloons.

RICHMOND (KEW OBSERVATORY)

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1933

RICHMOND (KEW OBSERVATORY).

Latitude	51° 28′ N.
Longitude	0° 19′ W.
G.M.T. of Local Mean Noon	12h. 1m.

Heights in Metres above Sea Level.

Barometer	10·4
Raingauge Site	5·5
Dines Tube Anemograph	28

Heights in Metres above Ground.

Thermometer Bulbs	3·0
Sunshine Recorder	13·3
Dines Tube Anemograph	23
Beckley Raingauge Rim	0·53

INTRODUCTION.

The Observatory was built in 1769 as the private observatory of King George III. Since 1842 it has been devoted to physics and meteorology. The meteorological records are continuous from 1854. The Observatory is in the Old Deer Park, Richmond (Surrey), about 10 miles (16 km.) to the west of the City of London. The Observatory stands on a low artificial mound whose level is about 1½ metres higher than that of the surrounding park. Round the Observatory a golf course has been laid out. The river Thames is distant about 300 metres on the north and west. Kew Gardens, which are extensively wooded, lie to the east-north-east, the nearest point of the Gardens being about 600 metres away. The town of Richmond, to the south-east, is about 1,100 metres distant. On the east side of the Park is the main road from Richmond to Kew; on the south side the railway from Richmond to Twickenham. An open area partly wooded, Syon Park, lies to the north-north-east across the river. Richmond Park is about 1½ miles (2½ km.) to the south-east. General views of the Observatory building and the exposure lawn are to be found in the 1928 volume. The photographs were taken in 1925, but the only changes (before the end of 1931) which need be noted are the substitution of other experimental screens for the small marine screens which were being tested in 1925, the removal in 1929 of the hedge near the North Wall Screen and the erection in place of the Robinson anemometer of the New Dines anemometer with its vane 5·3 metres above the dome. For the early history of the Observatory reference may be made to papers by S. P. Rigaud (The Observatory 1882, p. 279), R. H. Scott (Royal Society's Proceedings, Vol. 39 (1885), pp. 37–86), C. Chree (The Record of the Royal Society, 1897), and R. S. Whipple (Proceedings of the Optical Convention, 1926).

METEOROLOGY.

The elements dealt with in the following tables are: atmospheric pressure, temperature, humidity, rainfall, sunshine, solar radiation, wind speed and direction, earth temperature, minimum temperature on the grass, level of underground water; there is also a diary of cloud and weather.

For brief descriptions of most of the instruments from which values of the above elements have been obtained and of the methods of tabulating the records, reference should be made to the General Introduction. The following notes supplement, where necessary, the information contained therein.

Notes on Instruments.

Pressure.—The barograph is mounted in the basement of the Observatory, where the diurnal variation of temperature is very small. The normal position of the instrument has been in the north room occupied by the magnetographs. When the magnetographs were removed and the preparations for the installation of the seismographs were commenced, the barograph was placed in the photographic dark-room (June 16th, 1925). The instrument remained in that position until May 21st, 1928, when it was restored to its original site and electric lighting installed. The barograph magnifies barometric changes in the ratio 1·553 : 1, i.e., the change of ordinate equivalent to a change of 1 mm. in the height of the barometer is 1·553 mm. "Residual corrections," obtained from the control observations taken daily with the Newman barometer at 9h, 15h and 21h, are applied to the hourly measurements. The same correction is applied to all the readings on the same photographic sheet, i.e., generally for forty-eight hours. The individual entries published for the hours of the control observations may differ by ·3 mb. from those observations. The Newman barometer is compared from time to time with the two large mercury barometers, which were set up in 1855 and 1860 respectively and are still recognised as standards. A zero correction is based on these comparisons. The correction + 0·2 mb. (+ ·006 mercury inch) which has been applied for many years, remained in use. Comparisons are made on the assumption that the value of the acceleration due to gravity is $g=981{\cdot}199$ cm./sec^2. This is the value given by pendulum observations.† The departure from the value given for the latitude by Helmert's formula is insignificant. On occasions when a loss of trace occurred, the missing hourly values were derived from the Dines Float Barograph.* There were 22 hours in the year for which this was necessary.

Temperature and Humidity.—The thermograph is mounted in the West Room on the first floor of the Observatory, the thermometer bulbs being exposed in the screen attached to the north wall of the building. This screen has single louvres and the bottom is open. There is an additional flat louvred screen which shields the main screen from direct sunshine when the sun is in the West and not too low. The height of the bottom of the bulbs of the recording thermometers above the bottom of the sides of the screen containing them is 30 cm. in summer, 33 cm. in winter. The height of the bulbs above the top of the artificial mound on which the Observatory stands is approximately 3 metres; the height above the lawn where the rain-gauge is situated is approximately 5 metres. The scale values of the photographic records are not identical for the dry- and wet-bulb curves. For the dry-bulb, tube No. 4 II was in use and the scale value was 1 mm.=0·3336a; for the wet-bulb, the old Falmouth wet-bulb tube (no number) was in use and the scale value was 1 mm. = 0·290a.

* For descriptions of this instrument see *Observatories' Year Book*, 1923, p. 94, and *London, Q. J. R. Meteor. Soc.*, **55**, 1929, p. 37.

† A comparison between the values of "g" at Cambridge and Kew Observatory was made during the year 1925 by Sir G. P. Lenox-Conyngham with the assistance of Mr. G. Manley. A similar comparison between Potsdam and Cambridge was made by Prof. Meinesz earlier in the year. These observations are in accord with those made at Kew and Potsdam by Putnam in 1900, from which the value stated above was derived. The value for Potsdam, $g=981{\cdot}274$, based on the observations of Kühnen and Furtwängler, is adopted as the standard of reference.

The control thermometers, which were graduated and mounted by Messrs. Negretti & Zambra in 1915, had been made and filled many years before and were therefore well seasoned. The National Physical Laboratory certificates dated 1916 give corrections to the nearest 0·05°C., the largest being 0·10°. The thermometers are tested each January in ice. According to tests made in January, 1931, there was no indication of any change of zero. The water for the wet-bulb thermometers used to be supplied from a small open tank inside the screen and it was customary to fill the tank to overflowing several times each day. In November, 1925, a tank was fitted outside the screen. A tube leads from this tank to two cups from which wicks are taken to the wet-bulbs. A further improvement was made in July, 1926, when a large inverted bottle was set up over the tank. Water flowing from this bottle keeps the level constant in the tank and the cups. The height of the apparatus is adjusted so that water drips slowly from the wet-bulbs. A bottleful of water lasts at least a week. It is found that the bottle survives severe frost.

Control eye-readings of the standard thermometers are taken daily at 9h, 15h and 21h. Residual corrections obtained from the control observations are applied to the hourly measurements of the curves. The same correction is applied to all the readings on the same photographic sheet, i.e., generally for forty-eight hours. The individual entries published for the hours of the control observations may differ by 0·3°A. from these observations. The larger departures refer to occasions when temperature is oscillating or changing rapidly.

In cases of loss of the dry-bulb record owing to the failure of the electric light or any other cause the readings of a thermograph in a second North Wall Screen are adopted. There were 98 hours in the year for which this was necessary.

When the wet-bulb trace is missing or defective, the missing values are derived from the dry-bulb trace and the records of a hair hygrograph. The same procedure is always adopted when the wet-bulb reading is below 273°A. 747 hours had thus to be dealt with during the year. Humidity was determined from the dry and wet-bulb readings by the procedure described in the General Introduction to this Volume.*

It may be noted that during 1931, as in previous years, the temperatures published for Kew Observatory in the Daily Weather Report and elsewhere also refer to the North Wall Screen. For the daily and weekly reports the readings of maximum and minimum thermometers exposed in that screen are utilised.

Rainfall.—As from January, 1921, the standard raingauge for the Observatory has been an 8-inch gauge with the deep "Snowdon" funnel. The site is level and protected from wind, principally by hedges about $1\frac{1}{2}$m. high and distant 11 metres to East and 17 metres to West. The readings of this standard gauge are at 7h and 18h. The hourly readings of the Beckley gauge are adjusted to give totals in agreement with the standard gauge.

Sunshine.—The sunshine recorder is mounted on the south parapet of the roof. The same frame has been in use since 1880 and it is believed that the ball has not been changed. The ball is now somewhat yellow. The exposure is satisfactory. The greatest elevations of the sky line in the azimuths in which the sun can rise and set are 1° and 3° respectively.

Solar Radiation.—Observations are made with an Ångström pyrheliometer, which measures the intensity of the direct radiation received from the sun by a surface which is normal to the sun's rays. The observations are made within half an hour of noon on all days except Sundays, provided that the sun is visible and not

* Prior to 1926 the tables, based on Glaisher's factors, published in "The Computer's Handbook," M.O. 223, Sec. 1, 1916, were used.

too much obscured by cloud, fog or thick haze. The conditions of the intervening atmosphere are indicated in Tables 499–510 in the column "sky." The amount of radiation is given in milliwatts per square centimetre in the column headed "total." For conversion to the unit more ordinarily employed abroad, the following relation may be used, 1mw. per sq. cm. = 0·01435 gramme-calorie per sq. cm. per minute. The vertical component, i.e., the direct radiation received per square centimetre of a horizontal surface, is also given.

The Ångström instruments in use are by Rose, Stockholm. No. 24 was in use throughout the year. The ammeter is No. 68956, which was certified at the National Physical Laboratory in 1919.* The readings are evaluated according to Ångström's original instructions.† To bring the readings into accordance with the scale adopted by the Smithsonian Institution, a correction of + 3·5 per cent. would be required.‡

Wind Speed and Direction.—A new chapter in the record of the wind opens with the year 1931. From 1869 to the end of 1925 the velocity of the wind was estimated by means of the Robinson-Beckley cup anemograph mounted above the observatory dome. From the beginning of 1926 the Dines anemograph already in use for some purposes, was adopted for the hourly tabulations. This anemograph, now known as the "old Dines anemograph," had its head at the same height as the Robinson cups. In 1929 the cup-anemograph was dismantled and a new Dines instrument was erected with the vane over the middle of the dome. This vane is three metres higher than that of the old Dines anemograph. There are other differences§ between the two instruments, the new one having larger tubes between the vane and the receiver and having below the head a shield designed to eliminate the effects of any lack of symmetry in the attachment of the tubes to the head. After comparisons lasting a year the new anemograph was brought into regular use on January 1st, 1931. The following details refer to the two instruments.

	New.	Old.
Pattern	Mark II	
Suction holes	80 holes in 4 rows of 20. Diameter 2 mm.	80 holes in 4 rows of 20. Diameter 3 mm.
Connecting tubes ..	Length 8 m. Internal diameter 24 mm. ..	Length 17 m. Internal diameter 12 mm.
Height of vane above lawn ..	23 m. ..	20 m.

There is a continuous belt of trees along the river about 300 metres away and other tall trees at shorter distances, but few of the trees have their summits above the level of the new vane.

As was anticipated, the mean velocity of the wind as recorded by the new anemometer at 23 metres above the ground is in excess of that recorded at 20 metres. The difference is about 9 per cent. Winds from various quarters are however affected differently as will be seen from the following table. In this table two series of comparisons have been combined, those made in 1923–1925 between the old Dines instrument and the cup anemograph and those made in 1930–1931 between the two Dines instruments.

* In view of the discovery by Marten (*Berlin. Ber. Meteor. Inst.*, 1928, p. 64) that errors are likely to be caused by temperature changes produced in a microammeter when sunshine falls on it, it may be noted that the instrument used at Kew is always in shadow.

† Report of the International Meteorological Committee, St. Petersburgh, 1899, p. 57.

‡ R. E. Watson, *Geophysical Memoirs*, No. 21, 1923.

§ The anemometer of the new type is described in the *Geophysical Memoir* (No. 54, 1932) devoted to the Cardington researches on wind structure.

COMPARISON OF WIND VELOCITIES RECORDED BY ANEMOGRAPHS AT KEW OBSERVATORY.

(*a*) Velocity by "Old Tube" Anemograph as a percentage of velocity by the "Cup" Anemograph.

(*b*) Velocity by "New Tube" Anemograph as a percentage of velocity by the "Old Tube" Anemograph.

(*c*) Velocity by "New Tube" Anemograph as a percentage of velocity by the "Cup" Anemograph.

Wind Direction in Degrees from North.	Old Tube / Cup. 1923–25	New Tube / Old Tube. 1930–31	New Tube / Cup.	Wind Direction in Degrees from North	Old Tube / Cup. 1923–25	New Tube / Old Tube. 1930–31	New Tube / Cup.
	(a)	(b)	(c)		(a)	(b)	(c)
10	99	115	114	190	96	111	107
20	100	113	113	200	99	108	107
30	103	111	114	210	99	105	104
40	103	107	110	220	100	104	104
50	104	105	109	230	100	104	104
60	99	104	103	240	100	103	103
70	99	103	102	250	101	105	106
80	97	102	99	260	101	106	107
90	101	102	103	270	101	107	108
100	104	102	106	280	103	108	111
110	102	101	103	290	101	110	111
120	100	102	102	300	96	112	108
130	104	101	105	310	93	111	103
140	102	103	105	320	96	111	107
150	98	104	102	330	99	116	115
160	92	108	99	340	98	118	116
170	92	112	103	350	103	116	119
180	95	112	106	360	104	117	122

This table gives average values for winds of velocity greater than 5 metres per second.

The figures entered under the heading (c) are derived from those in the two preceding columns. The well marked dependence of the percentages on azimuth is due partly to the somewhat irregular plan of the Observatory building and partly—in the case of columns (a) and (b)—to the fact that the head of the old tube anemometer is almost above the parapet on the north side of the building. Experiments made with the object of detecting azimuthal variations in the scale value resulting from the disturbance of the flow of air by the connecting unions at the base of the head of the old tube anemometer have given inconclusive results. An analysis of the results obtained in 1930 and 1931 shows that if V and V + v are the velocities in metres per second recorded by the old and new tube instruments and θ is the direction in degrees from north, then

$$v = 0{\cdot}3 + V[{\cdot}032 + {\cdot}052 \sin(\theta + 127^\circ) + {\cdot}053 \sin(2\theta + 110^\circ)]$$

to a close approximation.

Earth Temperature.—The two thermometers in use were at 30 cm. and 122 cm. The ground in which the tubes for the thermometers are sunk is under grass. The soil is gravel. The site is well exposed. There are, however, three fruit trees about 9 metres to the east and 6 metres high. The bulb of the lower thermometer is 430 cm. above sea level.

Minimum Temperature on the Grass.—The grass minimum thermometer is set at 18h and read at 7h on the succeeding day, the reading being assigned to the day of reading.* The thermometer is placed with the bulb about 25 mm. above the turf. The exposure is good, there being no obstruction within 76° from the zenith. The thermometer in use was M.O. 23007. This thermometer has a spherical bulb, diameter 17 mm.

Identification Numbers of Instruments in use in 1931.

Control Barometer	Newman 34
Control Dry Bulb Thermometer	Negretti & Zambra 173971
Control Wet Bulb Thermometer	Negretti & Zambra 173969
Control Raingauge (8-inch)	M.O. 1271
Measuring Glass for the Control Raingauge	M.O. 1615
Campbell-Stokes Sunshine Recorder	M.O. 12
Dines Tube Anemograph Head	M.O. 1057
Dines Tube Anemograph Recorder	M.O. 1057
Earth Thermometer 1 ft.	M.O. 5
Earth Thermometer 4 ft.	M.O. 10
Grass Minimum Thermometer	M.O. 23007
Photo-thermograph { Dry Bulb	4 II
Photo-thermograph { Wet Bulb (Old Falmouth Wet Bulb)	No number
Photo-barograph	"

Thermometer Corrections, 1931.

	173971. N.P.L. 1915.				173969. N.P.L. 1915.				MO 5. N.P.L. 1913.		MO 10. N.P.L. 1913.		MO 23007. N.P.L. 1918.	
Certified.	$^\circ A$ 255	+0·20	$^\circ A$ 285	−0·10	$^\circ A$ 255	+0·15	$^\circ A$ 285	−0·10	$^\circ A$ 260	+0·1	$^\circ A$ 260	+0·3	$^\circ A$ 253	−0·1
	260	+ ·15	290	− ·10	260	+ ·15	290	− ·10	273	·0	273	+ ·1	263	− ·1
	265	+ ·10	295	− ·05	265	+ ·10	295	− ·05	280	·0	280	+ ·2	273	·0
	270	+ ·05	300	− ·10	270	+ ·10	300	− ·05	290	·0	290	+ ·1	283	·0
	273	− ·05	305	− ·05	273	·00	305	− ·05	300	·0	300	·0	293	·0
	275	·00	310	− ·05	275	·00	310	− ·05	310	·0	316	+ ·1	303	·0
	280	− ·05	—	—	280	− ·05	—	—	—	—	—	—	—	—
Applied.	260 } 270 }	+0·1	—	—	260 } 270 }	+0·1	—	—	—		275 } 285 }	+0·2	255 } 268 }	−0·1
	270·1 } 283·0 }	0·0	—	—	270·1 } 283·0 }	0·0	—	—	260 } 310 }	0·0	285·1 } 295 }	+0·1	268·1 } 303 }	0·0
	283·1 } 310·0 }	−0·1	—	—	283·1 } 310·0 }	−0·1	—	—	—		—	—	—	—

Notes on Meteorological Tables.

The year was notable for a deficiency of sunshine in the summer months and for the absence of any high temperatures.

* The hour of the readings to be published in the *Observatories' Year Book* was changed from 9h. to 7h. as from January 1st, 1924.

The colder weather occurred early in March. March 9th was an "ice-day," the maximum temperature in the North Wall Screen being 272·6°A (31·3°F.).

The lowest temperature, 265·3°A (18·1°F.), was reached between 0h. and 1h. on March 10th. The reading of the "grass minimum" thermometer was 257·5°A (4·1°F.), this being the lowest grass minimum temperature ever recorded at the Observatory in March.

The maximum temperature reached 298·1° A (77·2°F.), on June 28th, the lowest maximum temperature since 1879.

The rainfall for the year was normal. March, October and December were well below, while April and August were well above the normal. The heaviest fall occurred on August 5th, 28 mm. (25 mm. of which fell in 33 minutes).

The total sunshine for the year, 1265 hours, was well below the normal, the deficit amounting to 208 hours. The yearly total was the lowest since 1889.

The highest wind velocity recorded in a gust was 28 m/s. (62 m.p.h.) on February 12th.

Diurnal Variation of Pressure and Temperature.—Harmonic Analysis. The first four harmonic components computed for each month are tabulated in Tables A and B.

The inequality is supposed to be given by the expression,

$$c_1 \sin (15\, t^\circ + \alpha_1) + c_2 \sin (30\, t^\circ + \alpha_2) + \ldots\ldots,$$

t being the time in hours since midnight. The angles α are the phases of the several sine-waves at midnight. The curves are tabulated according to Greenwich mean time but the phases in Table A have been reduced to local mean time. The difference in Longitude between Kew and Greenwich being only 19′ the correction is hardly appreciable in the figures, which are rounded to the nearest degree.

Table A.

Diurnal Variation of Barometric Pressure. Fourier Coefficients. $\Sigma c \sin (nt+\alpha)$.
Richmond (Kew Observatory), Longitude 0° 19′ W. 1931. Local Mean Time.

Month or Season.	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4
	mb.	°	mb.	°	mb.	°	mb.	°
January	·219	162	·251	166	·212	348	·059	224
February	·231	118	·325	142	·127	325	·042	118
March	·102	34	·461	147	·080	330	·051	30
April	·057	299	·366	146	·045	242	·045	18
May	·230	66	·233	149	·089	153	·033	330
June	·287	345	·265	152	·076	133	·020	230
July	·110	63	·261	140	·110	148	·033	292
August	·313	48	298	143	·067	187	·054	339
September	·276	21	·416	153	·042	29	·038	318
October	·103	166	·439	165	·080	13	·013	6
November	·202	265	·312	162	·113	353	·044	173
December	·274	357	·317	145	·167	348	·076	185
Arithmetic Mean	·200	—	·329	—	·101	—	·042	—
Year	·089	38	·325	151	·038	352	·006	290
Winter	·021	137	·296	153	·152	344	·046	181
Equinox	·074	26	·417	153	·042	346	·032	7
Summer	·196	36	·264	146	·081	154	·028	313

Note.—*Winter* comprises the four months, January, February, November, December, *Equinox* the months March, April, September, October, and *Summer* May to August.

TABLE B.

Diurnal Variation of Temperature. Fourier Coefficients. $\Sigma c \sin (nt+\alpha)$.
Richmond (Kew Observatory), Longitude 0° 19′ W. 1931. Local Mean Time.

Month or Season.	c_1	α_1	c_2	α_2	c_3	α_3	c_4	α_4
	°A	°	°A	°	°A	°	°A	°
January	1·266	217	·459	21	·105	194	·040	11
February	1·657	223	·619	34	·100	171	·053	225
March	2·699	226	·805	36	·117	210	·092	173
April	2·477	224	·337	34	·180	46	·066	234
May	3·137	231	·129	83	·283	30	·078	5
June	3·268	223	·059	314	·218	32	·160	38
July	3·134	229	·015	1	·243	14	·106	66
August	2·700	227	·336	47	·223	36	·028	292
September	4·467	225	·820	46	·143	6	·116	182
October	2·589	224	·776	51	·142	283	·123	199
November	1·433	229	·518	54	·073	241	·057	190
December	1·106	215	·379	36	·140	206	·043	45
Arithmetic Mean	2·494	—	·437	—	·164	—	·080	—
Year	2·489	225	·423	41	·061	21	·012	146
Winter	1·359	221	·483	37	·096	200	·006	200
Equinox	3·058	225	·678	43	·051	345	·093	194
Summer	3·056	228	·111	48	·239	28	·079	34

NOTE.—*Winter* comprises the four months, January, February, November, December, *Equinox* the months March, April, September, October, and *Summer* May to August.

Level of Underground Water.—In Table 527 there is given for each day the mean height above sea level of the surface of the underground water. The level actually measured is the surface of water in a pipe which passes through the floor of the basement into the ground. The water level depends mainly on the state of the river Thames. The Observatory is close to Richmond lock, which is half-tidal, and the underground water is in summer a little below the level of low water above the lock (220 cm. above M.S.L). The effects of the spring and neap tides are conspicuous in the fluctuations of level in summer.

Cloud Amount.—The mean cloud amounts for the six hours of observations are given month by month in the diary of cloud and weather. The following means are derived from these data :—

Mean Amount of Cloud from Six Observation Hours.

Month	Jan.	Feb.	Mar.	Apl.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
Cloud	7·0	7·6	6·7	7·8	7·4	7·1	7·6	7·9	6·9	6·7	7·6	7·8	7·3

Mean Amount of Cloud for the Year at the Six Observation Hours.

Hour ..	7h	9h	13h	15h	18h	21h
Cloud ..	7·8	7·8	7·8	7·5	7·2	6·1

Visibility.—The objects used for the classification of visibility are enumerated below. The Observatory is on very low ground. The view is bounded on the south-east by Richmond Hill and on the west by the trees near the river. For object H a church tower seen through trees and with high ground behind it has to be used. There is no conspicuous object at the appropriate distance to serve as I, and interpolation is necessary. The object J is in London and is therefore more affected by atmospheric pollution than the other objects.

VISIBILITY AND FOG.

List of Objects.

Identification Letter.	Actual Object.	View Point.	Bearing.	Actual Distance.	Standard Distance.
X	Verification House (Not Visible).	S.W. Corner of Observatory Bldg.	S.W.	<25 metres	25 metres
A	Verification House ..	" "	S.W.	25 "	25 "
B	17ft. Stevenson Screen	S.E. Corner of Observatory Bldg.	S.W.'S.	50 "	50 "
C	New Magnetic Hut ..	S.W. Corner of Observatory Bldg.	S.'W.	110 "	100 "
D	S.W. Tree	" "	S.W.	200 "	200 "
E	Golf Club House ..	Observatory ..	S.E.'E.	500 "	500 "
F	Orange Tree Hotel ..	" ..	S.E.'E.	970 "	1,000 "
G	St. Matthias Church ..	" ..	S.E.	1,900 "	2,000 "
H	South Ealing Church	" ..	N.'W.	4,000 "	4,000 "
i	Mortlake Chimney well visible.		E.	3,500 "	7,000 "
	Chelsea Chimneys not visible.	" ..	E.	9,300 "	
J	Chelsea Chimneys ..	" ..	E.	9,300 "	10,000 "
K	Surrey Hills	" ..	S.'E.	20,000 "	20,000 "
l	Surrey Hills well visible	" ..	S.'E.	>20,000 "	30,000 "
m	Surrey Hills, exceptionally visible.	" ..	S.'E.	>20,000 "	50,000 "

ATMOSPHERIC ELECTRICITY.

The systematic observations in atmospheric electricity are devoted to potential gradient, air-earth current and conductivity. In the case of potential gradient there is continuous autographic registration; the other elements are observed each afternoon when conditions are favourable.

Potential Gradient.—The Kelvin water-dropper electrograph has been housed since 1915 in a low building known as the Clinical House. The pipe carrying the jet projects through a hole in a window and is adjusted so that the point where the jet breaks into spray is 1·50 m.* from the window and 1·73 m. above the pool into which the water falls.† The electrogram is a record of the difference of potential between the ground and the point where the jet breaks. The aim is, however, to obtain the potential gradient in the open. For this purpose observations are made at a site in the Observatory garden. The apparatus for these "absolute" observations consists essentially of a long insulated rod carrying at the end a lighted fuse, which is connected to an electrostatic voltmeter. Readings are taken with the fuse at one metre above the ground, the grass on which is kept short. The observations are taken about noon on all convenient dry days. From the observations the ratio of the potential gradient in the garden to the potential recorded by the electrograph is computed. Such a ratio is given for each month in Table 542.

On the few occasions when the water dropper was out of action, the values of potential gradient were derived from a subsidiary electrograph consisting of a radioctive collector attached to a Dolezalek quadrant electrometer run in the New Magnetic Hut.

* This measurement was made in July, 1926. It is believed that there has been no appreciable change since 1915.

† This height is regulated and has been kept the same.

During the year* two electrostatic voltmeters, No. 1684 and No. 1685, were used for the absolute observations. The voltmeters and also the electrograph are calibrated at frequent intervals by means of a high tension dry battery. In previous years the calibration of the battery was made by means of a potentiometer; this involved taking current from the battery. A new method was introduced in February 1930, the procedure being to use an electrometer for giving comparative measurements of the voltage of a series of standard cells and of the sections of the dry battery. A Lindemann electrometer with low plate potentials is found to be suitable for the purpose. The advantage of the method is that the battery is tested on open circuit.

The data appearing in Table 541 include the electrical character figure assigned to each day from the consideration of the electrograms. Of the character figures, 0 denotes the absence of negative potential, 1 implies the existence of negative potential at one or more times during the day but with a total duration of less than 3 hours, while 2 implies the existence of negative potential with a total duration of 3 hours or more. As a negative potential gradient hardly ever occurs except when rain is in the neighbourhood, character 0 occurs on dry days and character 2 on days with continuous rainfall.

The present criteria for character figures were adopted as from the beginning of 1914. Correcting for missing days, the average frequency of character figures 0, 1, and 2 during the years 1914–1930 inclusive were 185 : 139 : 41. The corresponding figures for 1931 are 198 : 125 : 42. In accordance with a resolution of the International Union for Geodesy and Geophysics (Section for Terrestrial Magnetism and Atmospheric Electricity: Prague Meeting 1927) tabulations of the duration of negative potential gradient have been included in the Year Book since 1928. The total duration of negative gradient is given for each day for which the electrographic record is satisfactory.

Table 542 contains daily data derived from measurements of the electrograms. They represent means for 60-minute intervals centred at the exact hours 3h, 9h, 15h, and 21h G.M.T. On occasions when the trace was defective, either through failure of insulation or some other cause, values of potential gradient have been omitted. The electrograph is intended to record the potential gradient of fine weather and the limits are approximately −1500 and +2000 volts per metre. In showers and thunderstorms gradients of 10000 volts per metre or more may occur. These are, of course, beyond the range of the instrument. Even when the curve does not go beyond the limits of the chart the changes may be so rapid that no satisfactory estimate is possible of the mean value of the ordinate. All such occurrences are indicated by the letter *z*. If there is no doubt as to the sign of the hourly mean value, though a numerical measure is unobtainable, the sign is indicated by a + or a − attached to the *z*. The symbol $z \pm$ indicates that there were oscillations on both sides of the zero line, and that the sign of the mean value was uncertain.

The extreme hourly mean values in Table 542 are 1450 v/m. at 21h on December 18th and −1200 v/m. at 21h on March 3rd. The former value is representative of foggy conditions; on this occasion fog developed in the early morning after a fine evening and persisted until the early morning of December 20th. The gradient was notably high from the morning of December 16th until the afternoon of the 21st, exceeding 1000 v/m. from 20h on the 18th until 9h on the 19th.

The extreme negative gradient of March 3rd was associated with light rain and mist. The gradient was negative from 20h until 24h, and was very highly negative from 21h until 22h.

Of the two sets of mean monthly values at 3h, 9h, 15h and 21h given in Table 542 at the foot of each month's data, the first set (*a*) represents the arithmetic means of all the positive potential gradients in the column, the second set (*b*) represents the algebraic

* As from January 1st, 1923, the electrostatic voltmeters took the place of the Kelvin portable electrometer, No. 81, previously used for this purpose.

mean derived from all days on which all four hours were represented. The last line gives the mean value for each month as derived from the (*a*) and the (*b*) values respectively. For reasons explained in the 1922 Year Book, it is expected that the mean derived from the values at 3h, 9h, 15h and 21h, on a sufficiently large number of days, will approximate closely to the mean value derived from all hourly values of all the days. But a reservation is necessary, for the occasions of highly oscillatory potential gradient, such as are met with during thunderstorms, have been omitted, and this omission may have a sensible effect.

As to comparison with earlier years it is to be noted that the present method of making the "absolute" observations was initiated at the beginning of 1910. Since then there has been no considerable change in the exposure at the control station.* The annual mean potential gradient for selected quiet days is available from that date onwards.†

1910	310 v/m	1918	346 v/m	1925	326 v/m
11	301 v/m	19	331 v/m	26	279 v/m
12	300 v/m	20	315 v/m	27	315 v/m
13	335 v/m	21	281 v/m	28	298 v/m
14	345 v/m	22	318 v/m	29	338 v/m
15	354 v/m	23	318 v/m	30	333 v/m
16	367 v/m	24	329 v/m	31	338 v/m
17	354 v/m				

The average for the 22 years is 324 volts per metre.

The mean for 1926 was a minimum. Along with the low value for 1921 it was probably to be attributed in part to the exceptional atmospheric conditions prevailing during the coal strikes of those years.

The diurnal inequalities and the mean monthly and annual values in Table 543 are based on the curves of quiet days selected from those entirely free from negative potential gradient. Other objects aimed at in the selection of the days are freedom from large irregular movements, absence of indications of inferior insulation in the electrograph, and the avoidance, so far as possible, of large non-cyclic changes. The quiet days numbered 10 in each month; but to complete that number in November it was necessary to include one 24-hour period which did not commence at midnight. Except in this case the non-cyclic change is given explicitly in Table 543, so that anyone who may desire to reproduce the figures as they were before the non-cyclic correction was applied can easily do so.

All the inequalities show a well marked double oscillation with minima in the early morning and early afternoon, maxima in the late morning as well as in the evening. The diurnal inequality for the whole year shows the higher maximum at 20h, the lower minimum at 4h. This is not the case in every year. The hours of the extremes and the range of the inequality is given for each year from 1910 in the following list.

Year.	Max. hr.	Min. hr.	Range v/m	Year.	Max. hr.	Min. hr.	Range v/m	Year.	Max. hr.	Min. hr.	Range v/m
1910	20	4	138	1918	20	2	139	1925	19	3	129
1911	9	4	154	1919	8	4	124	1926	20	4	118
1912	9	4	149	1920	9	3	122	1927	19	3	129
1913	19	3, 4	160	1921	20	3, 4	132	1928	9	3	124
1914	20	3	169	1922	20	4	144	1929	9	4	137
1915	19	5	173	1923	9	4	160	1930	9	3	163
1916	20	4	151	1924	20	4	133	1931	20	4	153
1917	20	4	154								

* cf., *Observatories' Year Book*, 1926, p. 327.

† Estimates for the years 1898–1909 are given by Chree, *London, Phil. Trans. R. Soc.* A. 1915, p. 141. The change of the site of the electrograph in 1915 is discussed in *Hourly Values*, 1916.

It will be seen that the range has been considerably lower in most recent years than it was in the years 1911 to 1917. The high values in 1923 and 1930 and again in 1931 are however conspicuous.

If the inequalities for the year and the seasons are compared with the corresponding inequalities for atmospheric pollution given in Table 545, the remarkably close similarity in the hours of occurrence of the principal maxima and minima noted in previous years is borne out, except that in summer the principal minimum of pollution was in the afternoon, whilst the principal minimum of potential gradient was in the early morning.

Conductivity and Air-earth Current.—Since 1909 the current flowing from air to earth has been estimated by the method developed by C. T. R. Wilson.* Until the end of 1930 the observations incorporated in the Year Book were made with an electrometer set up on a tripod. The current received by a small plate mounted on the electrometer was measured as well as the strength of the electric field over this plate. From these measurements the effective conductivity of the air was deduced and hence the strength of the current in the natural electric field.

It was always realised that this scheme was not entirely satisfactory. The construction of an underground laboratory has facilitated an improvement. The current which is now measured is that flowing into a plate which is flush with the roof of the laboratory and nearly at ground level. The plate is supported from below on a stand which carries a Lindemann electrometer and a variable condenser or "compensator." The cover for the plate is mounted on a long handle which can be manipulated from below.

For the year 1931 the measurements of conductivity were made with this apparatus. These measurements have been combined with the recorded values of potential gradient to give the air-earth current. The potential gradient refers to the lawn site, and since experiments have shown that there is no systematic difference between the conductivity over the lawn and over the underground laboratory the estimates of the air-earth current may be regarded as estimates of the current over the lawn.

For calculating the conductivity at 15h. four observations, each giving the a parent leakage from the testplate in five minutes are averaged. The conductivity is not observed during rain nor when the potential gradient is negative.

The use of the test plate at ground level introduces a discontinuity in the series of observations. The conductivity measured by the Wilson apparatus mounted on a tripod in the old way is not exactly equal to the conductivity measured at ground level. When conductivity is high as it is in fine, clear weather the values are in good agreement. When the air is polluted and conductivity is low the agreement breaks down and the true conductivity is 50% higher than that given by measurements of the old kind.

During the periods January 5–19 and August 18–September 15, when alterations were being carried out in the underground laboratory, the measurements were made on the tripod; corrections have been applied to these measurements and the entries in Table 540 correspond to ground level.

The monthly mean of the observed values of the current varied from 68 in December to 99 in July in terms of the unit 1×10^{-18} amperes per square centimetre. Allowing equal weight to each month we find that the mean for the year in terms of the above unit is 83. The mean derived directly from the 132 observations is 85. There is very little difference from the corresponding values for other years.

In Table 540 we have ventured to use λ_+ as the symbol for the Wilsonian conductivity, so implying that the conductivity measured is that due to positive ions. This interpretation of the observations is not accepted by all physicists.

* *Cambridge, Proc. Phil. Soc.*, **13**, 1906, p. 184.

There is some doubt as to the comparability of observations made with the Wilson apparatus and other estimates of the air-earth current. Determinations based on separate measurements of the conductivity for positive and negative electricity have yielded on the continent averages of about 200×10^{-18} amperes per square centimetre. On the hypothesis that it is only λ_{+} that governs the transport of electricity from air to ground this estimate must be reduced to 100×10^{-18} amperes per square centimetre. This is rather greater than the annual mean value of the current at Kew which is given in Table 540 for the year under review as 85×10^{18}.

ATMOSPHERIC POLLUTION.

The Owens atmospheric pollution recorder or air filter No. 1* is situated in the Clinical House, and the level of the intake is about 1½m. above that of the adjacent ground. The weight of the pollution is not obtained directly but is deduced from shade numbers 0, 1, 2, etc., assigned to the deposit left on the filter paper through which the air is drawn. The equivalents of the shade numbers are allotted in accordance with the results of an investigation carried out for the Atmospheric Pollution Committee by Mr. J. G. Clark.† When the normal volume of air, 2 litres, is aspirated (it is drawn through a hole 3·2 mm. in diameter) shade number 1 answers to 0·32 milligrams per cubic metre. The Owens apparatus was designed in the first place for dealing with the air of cities, and the amount of pollution at the Observatory is usually so small that the shade recorded when the 2 litres are aspirated is either 0 or 1.

Preliminary experiments with a spare recorder having justified the assumption that increasing the volume of air would increase the shade number in proportion, an auxiliary tank was brought into use at the beginning of July, 1928. With this tank in operation each spot on the filter paper corresponds with 6·4 litres of air. The unit shade is therefore equivalent to 0·1 mg./m³. When fog prevails the auxiliary tank is put out of action and the unit shade reverts to the value 0·32 mg/m³.

This improvement in the recording system must of itself introduce a discontinuity in the published data. It is anticipated however that the results will be much more reliable.

In this connection it is to be noted that new scales of shades were taken into use on the following dates :—

June 7, 1925; July 1, 1926; (retrospectively) January 1, 1928; August 1, 1930; January 1, 1931; and June 1, 1931.

The highest estimate of pollution was 2·6 mg/m.³, this value occurring on January 6th at 13h, October 27th at 21h, and 22h. and on November 22nd at 15h. There were 41 days on which the pollution reached 1·0 mg/m.³; the number of hours credited with 1·0 mg/m.³ or more being 243. The months in which these days and hours occurred are given in the accompanying table.

	days	hours
Jan.	8	57
Feb.	4	9
Mar.	2	10
Apr.	1	1
Oct.	7	56
Nov.	10	58
Dec.	9	52
Year	41	243

* A description of the instrument is given in the *Report of the Advisory Committee for Atmospheric Pollution*, 4th Report, 1917–1918, p. 20.

† *Report of the Advisory Committee for Atmospheric Pollution*, 3rd Report, 1916–1917, p. 20.

Table 544 gives for each month mean hourly values derived from all the days for which complete records were obtained. There were 355 such days in the year. The highest and lowest of these hourly values are in heavy type.

Table 545 gives diurnal inequalities derived from the data in Table 544 after the application of non-cyclic corrections. The principal reason for computing the diurnal inequalities was to facilitate comparison with the corresponding diurnal variations in barometric pressure and in the potential gradient of atmospheric electricity.

The mean values computed for recent years are given in the following table, together with the means for successive pairs of months. The unit is 1 mg/m³.

	1926	1927	1928	1929	1930	1931
Jan.–Feb. ..	·29	·25	·22	·40	·18	·24
Mar.–Apr. ..	·30	·10	·18	·27	·13	·15
May–June ..	·08	·07	·09	·05	·05	·06
July–Aug. ..	·07	·05	·05	·06	·07	·07
Sept.–Oct. ..	·19	·17	·15	·10	·13	·25
Nov.–Dec. ..	·26	·21	·25	·21	·29	·33
Year ..	·20	·14	·15	·18	·14	·18

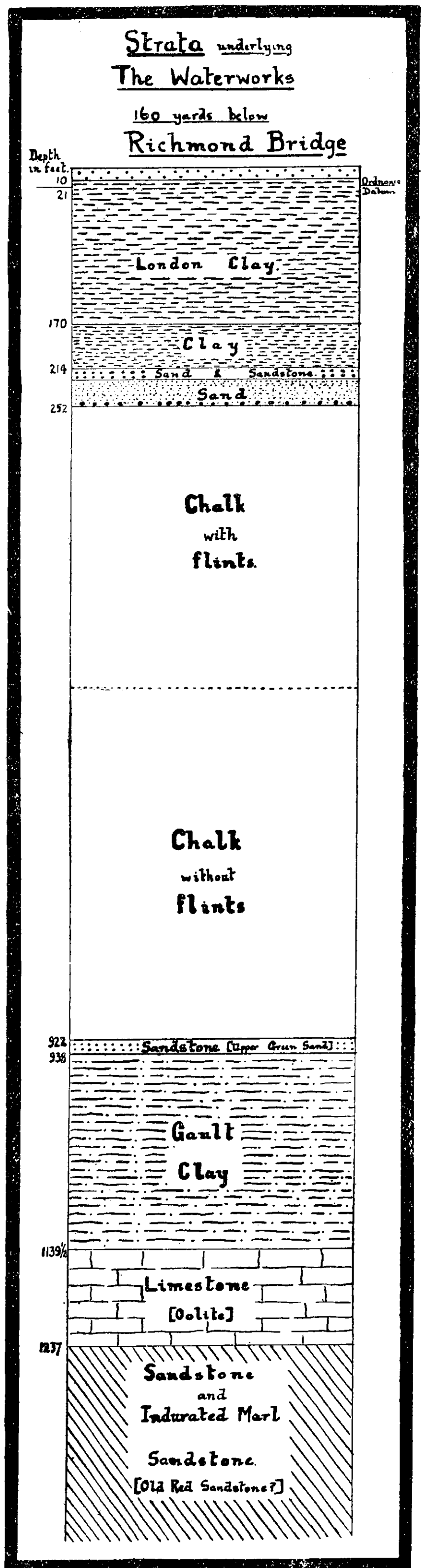
The nature of the diurnal variation is most easily recognised in Table 545. There is always a well defined minimum during the night and another in the early afternoon. The first maximum of the day usually occurs about 9h and the second one follows about 12 hours later. This double oscillation is apparently due to two causes, the variation in human activity in producing pollution and the variation in the wind which disperses it. In 1931 the principal maximum was in the evening in April and from October to December; in the forenoon in the remaining months. The principal minimum occurred in the afternoon from May to June and from August to October; in the early morning in the remaining months. Curves illustrating the diurnal variation of atmospheric pollution will be found in the Annual Reports of the Advisory Committee on Atmospheric Pollution and in a paper by Dr. F. J. W. Whipple in the Quarterly Journal of the Royal Meteorological Society, Volume 55 (1929), No. 231.

SEISMOLOGY.

Notes on Instruments.—The seismographs, three Galitzin pendulums with galvanometric registration, were transferred from Eskdalemuir Observatory during the latter part of 1925 and have been in regular operation since the beginning of 1926. Earth movements in the north, east and vertical directions are recorded. The pendulums, which are in the old magnetograph room, are mounted on a massive concrete pillar, separated from the floor. The galvanometers and recording apparatus are accommodated on slate slabs in the old seismograph room, which housed the Milne instrument until it was put out of action on June 17th, 1925. To eliminate temperature variation as far as possible, the windows of the pendulum room are provided with triple glass and also shielded by louvred screens from direct sunshine which might fall on them morning and evening. The annual range of temperature variation is about 10° C. and the mean daily range about 0·2° C. To diminish the sensitivity of the vertical pendulum to temperature changes the steel controlling spring was replaced in May, 1928, by one made of elinvar, an alloy which has a temperature coefficient of elasticity about one-tenth that of steel.* A detailed report on the behaviour of the spring has been published in a paper† by F. J. Scrase. The difficulties usually associated with the operation of the vertical pendulum have been greatly diminished.

* Y. Dammann. "Contribution à l'étude des propriétés élastiques de l'élinvar. Son utilisation dans les séismographes," *Publ. Bur. Cent. Seis. Int., Strasbourg*, Ser. A, Fasc. No. 5, 1927, pp. 122–129.

† *London, Inst. Physics, J. Sci. Instr.*, **6**, 1929, p. 385.



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Prof. Papers No. 10, Survey of India.

The concrete pillar rests on gravel. The underlying geological strata are shown in the diagram on this page. The diagram is based on the results obtained* in sinking a well near Richmond Bridge. The Richmond boring terminated at a depth of 440 metres in Old Red Sandstone. At Stonebridge Park, 8 km. to the north, a boring was carried down † to a depth of 600 metres, the last 280 metres being in Old Red Sandstone. There is no information as to deeper strata near Richmond. It may be noted, however, that the sandstone beds dip at about 30° and that a boring at Little Missenden, Bucks, entered Silurian rocks at a depth of 370 metres with no evidence of the presence of Old Red Sandstone.

For detailed description of the Galitzen seismograph and for particulars of interpretation of the records, reference may be made to Fürst B. Galitzin's "Vorlesungen über Seismometrie" (Leipzig, 1914), or to G. W. Walker's "Modern Seismology" (London, 1913).††

Timing is controlled by a half-seconds clock (Morrison 8587) which is rated daily by comparison with the Greenwich wireless time-signal relayed from Daventry. Time breaks are made electro-magnetically every minute and seismometric readings can be determined to the nearest second.

The free periods of the galvanometers (T_1), were determined in November, 1925, and were found to have suffered very little change since the original determinations at Eskdalemuir were made. The lengths of the simple equivalent pendulums (l), are assumed to have remained unaltered.

The values of the other constants which are used for deriving the scale values were determined in September for the vertical pendulum, and in October for the horizontal instruments. In the case of the horizontal instruments it was found that the magnifications agreed closely with those obtained from the previous tests in September 1930. Some adjustments to the vertical pendulum were carred out on September 30th.

The table given below summarises the values of the constants. T is the free period of the pendulum, μ is a damping coefficient which vanishes when the free movement of the pendulum is just aperiodic, A is the length of the beam of light from the galvanometer mirror to the recording drum (usually about 1100 mm), and k is the "transmission" factor. The quantity $\frac{kA}{\pi l}$ may be regarded as a relative measure

* *London. J. Geol. Soc.*, **40**, 1884, **41**, 1885, p. 523.

† Records of London Wells, *Mem. Geol. Surv. Eng., London*, 1913.

†† The graphical method adopted at Kew for determining the constants of the pendulums is explained in a memoir by F. J. Scrase, *Geophysical Memoirs*, No. 49, 1930.

of the nominal magnification. With the instrument properly adjusted $\frac{kAT}{4\pi l}$ is the magnification factor for regular earth movements with a period equal to that of the pendulum.

Component	l	T_1	1931	T	μ^2	$\frac{kA}{\pi l}$	$\frac{kAT}{4\pi l}$
	mm.	sec.		sec.		sec.$^{-1}$	
N	118	24·68	Jan. 1 to Oct. 8	25·2	−0·01	47·3	298
			Oct. 8 to Dec. 31	25·0	+0·01	46·2	289
E	118	24·80	Jan. 1 to Oct. 8	25·2	−0·04	44·2	278
			Oct. 8 to Dec. 31	24·9	+0·02	44·0	274
Z	360	13·04·	Jan. 1 to Sept. 30	13·5	+0·12	106	358
			Sept. 30 to Dec. 31	12·6	+0·02	114	359

In windy weather the seismographs, especially the horizontal components, are affected by slow oscillations, which are attributed to the tilting of the ground, the movement being conveyed through the foundations of the Observatory. On occasions the reading of an earthquake record is rendered very difficult, if not impossible, by these irregular disturbances.

Notes on Tables.—The *Seismological Diary*, Table 546, contains the particulars of the earthquakes recorded at the Observatory. The notation employed is as follows :—

P is the normal first phase (longitudinal waves). Special cases of P occur when the waves are reflected from (P_cP) or penetrate (P′) the earth's central core.

PR_1, PR_2 . . . are longitudinal waves reflected once, twice . . . near the earth's surface.

S is the normal second phase (transverse waves). S_cP_cS is a special case of S in which the waves penetrate the central core and pass through it as longitudinal vibrations.

PS and PPS are waves which suffer a change or changes from longitudinal to transverse oscillation or vice versâ, on reflection near the surface.

SR_1, SR_2 . . . are transverse waves reflected once, twice . . . near the surface.

L indicates long waves (surface waves).

i is the sudden commencement of a phase. *e* means a gradual or indistinct commencement. These letters are used as prefixes to the phase symbols, but where the character of the phase is not assignable the letters are used as independent symbols. When the commencement of a phase is moderately clear the prefixes are not used.

The suffixes N, E, Z indicate that the estimates refer to the records from the north-south, east-west and vertical seismographs respectively. The absence of all these suffixes indicates that the estimates refer to all three records.

All times entered against the above phases are the times of arrival of the phases at the station.

m_1, m_2 . . . are successive prominent maxima of sinusoidal waves occurring in the preliminary phases. M_1, M_2 . . . are successive prominent maxima occurring during the principal or surface phase.

The period is the duration of a double oscillation (to and fro movement).

A_N, A_E, A_Z are the amplitudes, in microns (μ=0·001 mm.), of the components of the true displacement of the ground from the position of rest. Displacements to the north, east and upwards are regarded as being positive. When successive positive and negative displacements have the same magnitude the time of occurrence is given for the positive one. When no sign is given the measurement refers to a long group of waves the amplitudes of which are the same.

The following formulæ due to Galitzin are employed for computing the times of the maxima and the amplitudes of sinusoidal waves :—

(1) Lag of the displacement shown by the galvanometer after the maximum displacement of the ground

$$\tau+\tau_1=\frac{T_p}{2\pi}\left[\tan^{-1}\frac{2u\,(1-\mu^2)^{\frac{1}{2}}}{u^2-1}+\tan^{-1}\frac{2u_1}{u_1^2-1}+\frac{\pi}{2}\right]$$

each inverse tangent being taken as between o and π.

(2) Magnification of record =

$$\frac{kA\,T_p}{\pi l}\cdot\frac{1}{(1+u^2)(1+u_1^2)\left\{1-\mu^2 f(u)\right\}^{\frac{1}{2}}}$$

where T_p is the period of the earth wave considered,

$$u=\frac{T_p}{T},\quad u_1=\frac{T_p}{T_1},\quad\text{and } f(u)=\left[\frac{2u}{1+u^2}\right]^2 .$$

Δ is the distance in kilometres of the epicentre measured along the arc of a great circle. For earthquakes located within 10,000 km. of Kew the distance is generally derived from the interval between P. and S. by the tables, due to Zeissig, given in Klotz's "Seismological Tables" (Publication of the Dominion Observatory, Ottowa, Vol. III, No. 2). For greater distances other phases are considered and Δ is obtained from the travel curves given by Gutenberg.* The azimuth of the epicentre (0° to 360°) is measured from north through east. When an estimation of the azimuth is possible, it is used, together with Δ, for provisional determination of the co-ordinates of the epicentre. The co-ordinates given in the Diary have generally been received at a later date ; the authorities for these determinations are inserted in brackets. Here the letters J.S.A. signify the Jesuit Seismological Association of America, and U.S.C.G.S. the United States Coast and Geodetic Survey.

Brackets enclosing figures or phase symbols indicate that the information is uncertain.

The total number of shocks recorded during the year was 274. The phases being sufficiently well defined, estimates of the epicentral distances were obtained for 53 shocks, whilst in 11 cases the records of the initial impulses were sufficiently sharp to allow of computations of azimuth and so of estimates of the co-ordinates of the epicentres. There were 16 earthquakes which produced a disturbance at the observatory with an amplitude exceeding 0·1 mm. in a horizontal component. These earthquakes originated in Mexico (January 15th), in Northern Burma (January 27th), in the Pacific Ocean north of New Guinea (January 28th), in New Zealand (February 2nd and 13th), in the Balkans (March 8th), in Japan (March 9th, November 2nd), in the Atlantic Ocean between Madeira and Portugal (May 20th), in the North Sea (June 7th), in Mongolia (August 10th and 18th), in Baluchistan (August 24th and 27th), near Sumatra (September 25th), in the Solomon Islands (October 3rd).

The epicentre of the earthquake of June 7th was about 60 miles from the coasts of Yorkshire and Norfolk. The shock was felt in the Channel Islands, in the north of France, in Belgium, Holland and Denmark, and in Germany at places as far away as Hamburg and Brunswick. As far as is known no earthquake has ever been felt over such a large area in the neighbourhood of the British Isles.†

For comparison the statistics for all the years in which the Galitzin seismographs have been in operation at Kew Observatory are given :—

YEAR.	Shocks recorded.	Epicentral distances.	Azimuths. estimated	Shocks exceeding 0·1 mm.
1926	306	55	—	10
1927	314	78	6	9
1928	339	97	19	18
1929	320	74	6	12
1930	301	56	6	8
1931	274	53	11	16

* Handbuch der Geophysik, Berlin, 1929, p. 212.

† Report on Seismological Investigations. British Association, 1931.

Microseisms.—In Table 547 are given the amplitude (A) and period (T_p) of the microseisms shown by the north component seismograph on each day at 0h, 6h, 12h, and 18h. On a few occasions (less than 2 per cent. of the total number) when the north component record was not available measurements of the east component record have been included. The group of waves of greatest amplitude occurring in the 30 minutes centring at the hour in question is selected, and the amplitude tabulated is the mean obtained from the three largest complete waves in that group. The period is derived from a measurement made on the same group*, but the procedure adopted in 1926 and 1927 was slightly modified from January 1st, 1928, in order to diminish the tendency on the part of the tabulator to give preference to certain periods. The total time, to the nearest second, for a number of complete consecutive waves is measured, the number of waves being chosen so that the time is between 23 and 30 seconds. The period is then derived from the following division table :—

Number of Waves.	Time interval in seconds.							
	30	29	28	27	26	25	24	23
3	10	9·7	9·3	9·0	8·7	8·3	8·0	7·7
4	7·5	7·3	7·0	6·7	6·5	6·3		
5	6	5·8	5·6	5·4	5·2			
6	5	4·8	4·7	4·5				
7	4·3	4·1	4·0	3·9				
8	3·7	3·6	3·5					
9	3·3	3·2	3·1					
10	3·0	2·9	2·8					
11	2·7	2·6						
12	2·5							

In computing the mean period occasions of zero amplitude are omitted. The mean values of amplitude and period for each month of 1931 and for the year, together with the corresponding mean values for the period 1926 to 1930, are given below:—

MICROSEISMS—MONTHLY AND ANNUAL MEANS.

1926 to 1930.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
Amplitude (μ)	2·4	1·8	1·5	1·0	0·5	0·6	0·4	0·6	0·7	1·2	1·9	2·1	1·2
Period (sec.)	6·6	6·2	5·9	5·4	4·8	4·6	4·3	4·5	4·9	5·3	6·0	6·4	5·4
1931.													
Amplitude (μ)	1·5	1·8	0·9	0·5	0·5	0·4	0·3	0·5	0·3	0·8	1·7	1·9	0·9
Period (sec.)	5·9	6·3	5·3	5·3	4·7	4·3	4·4	4·3	5·2	5·8	6·1	6·5	5·3

The means for the several hours are as follows :—

MICROSEISMS—MEANS AT SPECIFIED HOURS.

1926 to 1930.	0h.	6h.	(G.M.T.) 12h.	18h.
Amplitude (μ)	1·25	1·24	1·21	1·24
Period (sec.)	5·43	5·43	5·38	5·42
1931.				
Amplitude (μ)	0·96	0·96	0·87	0·91
Period (sec.)	5·32	5·28	5·35	5·37

These figures indicate that there is no regular diurnal variation in amplitude or period of the microseisms recorded at Kew Observatory.†

* F. J. W. Whipple and F. J. Scrase, " On the Frequency of Microseisms of Different Periods at Eskdalemuir and at Kew," *London, Mon. Not. R. Astr. Soc. Geophys. Supp.* **2**, No. 2, 1928.

† F. J. W. Whipple and A .W. Lee, "Studies in Microseisms," *London, Mon. Not. R. Astr. Soc. Geophys. Supp.* **2**, No. 7, 1931.

Readings in millibars at exact hours, Greenwich Mean Time.

441. Richmond (Kew Observatory) : H_b (height of barometer cistern above M.S.L.) = 10·4 metres. **January, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Station Level — Day.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	989·1	989·0	989·0	989·0	988·2	987·5	987·3	987·4	987·4	987·7	987·8	987·7	987·7	987·9	988·3	989·3	989·6	990·3	990·9	991·6	992·1	992·8	993·4	994·1	**989·3**
2	994·5	994·8	995·3	995·6	996·0	996·6	997·0	997·6	998·5	999·0	999·2	999·7	999·6	000·1	999·9	999·9	999·6	999·8	999·7	999·4	997·8	997·4	996·5	996·2	997·9
3	995·1	994·5	993·6	993·3	992·8	992·1	992·4	992·5	992·5	993·5	993·4	993·0	992·8	992·8	993·0	993·1	993·5	993·5	993·8	994·3	994·7	995·3	995·9	996·2	993·7
4	996·5	997·0	997·3	997·5	997·6	997·9	998·5	999·3	000·4	001·4	002·1	002·6	003·3	004·5	005·4	006·7	008·2	009·2	010·1	011·3	012·4	013·1	014·1	014·6	003·8
5	015·0	015·8	016·4	016·8	017·1	017·4	018·0	018·9	019·8	020·3	020·5	020·4	020·2	020·3	020·4	020·9	021·2	021·3	021·7	022·2	022·5	022·5	023·0	023·1	019·6
6	023·6	024·1	024·4	024·5	024·5	024·6	025·3	025·9	026·5	027·0	027·3	027·3	027·0	027·1	027·3	027·7	028·0	028·3	029·0	029·7	029·9	030·1	030·4	030·1	026·9
7	030·1	030·2	030·5	030·5	030·4	030·6	031·0	031·4	031·8	032·2	032·2	031·9	031·6	031·4	031·7	031·8	031·9	032·0	032·2	032·5	032·5	032·6	032·8	032·6	**031·5**
8	032·4	032·6	032·4	032·3	032·1	032·1	032·3	032·7	032·8	032·8	032·7	032·2	031·6	031·1	030·8	030·9	030·7	030·7	030·6	030·3	029·9	029·2	029·0	028·9	031·5
9	028·4	028·0	027·6	026·8	026·2	025·9	026·0	025·8	025·9	026·0	025·9	025·5	025·3	025·0	025·5	025·6	025·7	026·0	026·2	026·2	026·5	026·4	026·4	026·5	026·3
10	026·5	026·8	027·0	027·1	027·1	027·7	027·7	028·1	028·7	028·5	028·4	028·3	027·9	027·8	027·8	027·8	027·9	028·2	028·0	028·0	027·9	028·0	027·7	027·5	027·7
11	027·1	026·9	026·7	026·1	025·3	025·3	025·1	024·9	024·9	024·5	023·9	022·6	021·4	020·7	020·0	019·5	018·7	018·0	017·2	016·7	015·9	014·9	013·5	012·4	021·7
12	011·1	010·4	009·4	008·1	007·0	006·4	005·8	005·8	005·6	005·7	005·0	004·2	003·3	003·1	003·0	002·8	002·9	002·9	003·0	003·0	003·0	003·0	003·1	003·2	005·2
13	003·3	003·2	003·1	003·0	003·0	003·1	003·6	004·2	004·9	005·6	005·9	005·9	006·1	006·6	007·5	008·3	009·5	010·5	011·4	011·9	012·4	012·9	013·6	013·9	007·0
14	014·0	014·3	014·7	014·8	015·0	015·5	016·4	016·8	017·2	017·3	017·5	017·4	017·3	017·6	018·1	018·3	018·7	019·2	019·4	019·6	019·4	019·3	019·3	019·0	017·2
15	018·3	018·0	017·5	016·4	015·9	016·2	016·1	016·4	016·3	016·2	016·2	015·9	015·2	015·5	015·9	016·1	016·1	016·4	016·6	016·7	016·5	016·4	016·3	016·5	016·5
16	016·1	015·9	016·1	015·4	014·9	014·5	014·1	014·0	013·9	013·6	012·6	011·1	010·0	009·4	009·0	008·0	007·0	005·4	004·0	002·7	000·9	999·7	999·5	999·9	009·8
17	001·5	002·2	002·6	002·1	002·0	002·1	002·3	002·3	002·6	002·8	003·1	002·4	002·4	002·8	004·1	005·1	006·3	007·2	008·1	008·7	009·1	009·4	009·9	010·4	004·4
18	010·4	010·8	011·4	011·3	011·3	011·6	012·0	012·2	012·5	012·5	012·8	012·6	012·6	012·9	013·4	013·7	014·1	014·6	014·7	014·9	014·5	014·1	014·0	013·7	012·8
19	013·1	013·1	012·2	012·0	011·5	010·8	010·7	010·9	010·9	011·1	011·5	011·5	011·5	011·8	012·1	012·6	012·7	013·1	014·0	014·1	013·7	013·8	013·7	013·7	012·3
20	013·9	014·0	014·0	013·9	013·9	013·8	014·3	014·6	015·2	015·6	016·1	016·5	016·6	016·9	017·3	018·1	018·8	019·5	019·8	020·5	020·9	020·7	021·1	021·2	016·8
21	021·7	021·8	021·5	021·1	020·6	020·2	020·1	020·0	020·1	020·2	019·7	019·0	018·3	017·5	017·5	016·9	016·7	016·4	016·3	016·1	015·5	015·3	014·8	014·4	018·5
22	013·8	013·9	013·3	012·7	012·5	012·2	012·0	012·3	012·2	012·2	011·9	011·5	010·9	010·7	010·6	010·6	010·7	011·0	011·2	011·3	011·1	010·6	009·9	008·4	011·7
23	007·5	006·5	005·5	004·2	003·0	001·5	000·3	999·5	998·3	997·1	995·5	994·0	991·5	989·7	988·9	988·2	987·0	986·5	986·0	985·8	986·3	987·4	988·3	988·8	994·9
24	989·4	989·9	990·0	990·2	990·5	990·8	991·1	991·8	992·5	993·0	994·1	994·2	994·8	995·5	996·1	997·0	998·0	999·3	000·1	000·4	001·0	001·4	001·7	002·0	994·9
25	002·4	002·7	002·5	002·7	003·1	003·5	004·5	005·9	007·3	008·2	008·9	009·3	009·6	009·9	010·3	010·9	011·1	011·3	011·5	011·5	011·0	010·9	009·8	008·9	007·7
26	009·2	009·7	010·7	011·7	012·6	013·4	014·7	015·9	016·9	018·2	018·7	018·6	019·4	019·8	019·7	019·8	020·2	020·8	020·9	021·0	021·4	021·3	021·7	021·9	017·2
27	021·7	022·1	022·2	022·2	022·2	022·4	022·6	022·7	022·6	022·6	022·4	021·8	021·0	020·0	019·1	018·4	017·8	017·0	016·1	015·0	013·6	012·0	010·6	009·2	019·3
28	008·3	008·0	007·6	007·4	007·1	006·8	006·6	006·4	005·9	005·5	005·0	004·7	004·1	003·8	003·8	003·9	004·2	004·4	005·0	004·9	004·7	004·6	004·2	003·7	005·6
29	002·9	002·1	001·2	000·9	000·7	000·4	000·4	000·6	000·6	000·6	000·6	000·4	000·0	999·6	999·4	999·3	999·6	999·6	999·6	999·9	999·8	999·7	999·8	999·8	000·4
30	999·8	999·8	000·1	000·5	000·8	001·2	001·8	002·3	002·5	002·7	003·6	004·3	005·5	006·9	008·9	010·9	012·9	014·7	016·1	016·9	017·5	018·2	019·0	019·3	007·4
31	020·0	020·0	020·4	020·4	020·2	020·0	019·9	019·6	019·0	018·3	017·6	016·3	014·9	013·1	011·7	010·0	008·6	006·9	005·2	003·3	001·7	000·6	999·6	998·9	013·2
Mean (Station level)	1011 ·51	1011 ·55	1011 ·49	1011 ·31	1011 ·13	**1011 ·10**	1011 ·29	1011 ·57	1011 ·81	1012 ·00	1012 ·00	1011 ·70	1011 ·40	1011 ·35	1011 ·50	1011 ·68	1011 ·87	1012 ·07	1012 ·21	**1012 ·27**	1012 ·13	1012 ·05	1012 ·02	1011 ·90	1011 ·70
Mean (Sea level)	1012 ·81	1012 ·85	1012 ·79	1012 ·61	1012 ·43	**1012 ·40**	1012 ·59	1012 ·87	1013 ·12	1013 ·30	1013 ·30	1013 ·00	1012 ·69	1012 ·64	1012 ·79	1012 ·97	1013 ·16	1013 ·37	1013 ·50	**1013 ·57**	1013 ·43	1013 ·35	1013 ·32	1013 ·21	1013 ·00

442. Richmond (Kew Observatory) : H_b = 10·4 metres. **February, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Station Level	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb	mb.
1	998·2	997·5	997·3	997·3	997·3	997·4	997·9	998·9	999·9	001·0	001·9	002·6	003·4	004·4	005·8	007·1	008·4	009·6	011·0	011·9	012·3	013·1	013·6	014·0	003·9
2	014·2	014·4	014·6	014·8	015·0	014·9	015·0	015·3	015·7	015·8	016·0	016·1	015·8	015·4	015·2	015·2	015·2	015·2	015·1	014·9	014·5	014·1	013·4	013·0	015·0
3	012·3	012·1	012·3	013·0	013·7	014·6	015·3	015·9	017·1	017·9	018·4	018·5	018·9	019·0	019·2	019·7	020·2	020·6	021·0	021·4	021·9	022·3	022·5	022·3	017·7
4	022·2	022·4	022·6	022·9	022·9	022·9	023·6	023·9	024·1	024·1	024·2	023·8	023·8	024·3	024·1	024·4	024·5	025·2	025·7	025·9	025·9	026·1	025·9	026·2	024·2
5	026·0	026·0	026·4	026·2	026·2	026·1	026·1	026·4	026·7	026·8	026·6	025·9	025·1	024·6	024·2	023·6	023·3	022·9	022·5	022·1	021·5	020·7	019·8	018·8	024·5
6	017·9	017·2	016·4	015·6	014·8	014·4	014·1	014·0	013·8	013·7	013·5	013·1	012·8	012·4	012·2	012·3	012·5	012·8	012·8	012·7	012·9	012·9	012·9	012·9	013·9
7	012·8	012·9	012·9	013·0	013·0	012·6	012·7	013·1	013·2	013·3	013·4	013·4	013·2	013·2	013·4	013·4	013·9	014·3	014·6	015·1	015·1	014·9	014·6	014·6	013·6
8	014·4	014·5	014·4	014·1	013·9	013·7	013·4	013·5	013·5	013·4	013·3	013·0	012·1	011·9	011·7	011·9	011·9	012·1	012·0	012·1	011·9	012·0	011·6	011·8	012·9
9	011·9	011·7	011·6	011·2	011·5	011·5	011·6	012·4	012·6	013·1	013·8	013·8	013·8	013·8	013·4	013·6	013·9	014·0	013·5	013·5	013·3	012·8	012·2	011·8	012·8
10	011·0	010·2	009·0	008·3	007·5	006·4	005·3	004·6	003·8	005·8	006·4	007·6	008·9	009·8	011·0	012·4	014·0	015·1	016·3	017·1	017·8	018·1	019·3	020·1	010·9
11	020·2	020·4	020·3	020·1	020·0	019·6	019·1	018·6	018·3	017·4	016·8	013·9	011·6	009·3	006·3	002·9	000·6	998·3	995·6	995·5	995·4	996·1	997·2	996·9	010·1
12	997·9	997·3	997·5	997·9	998·2	998·6	999·3	999·5	000·0	000·2	000·6	000·5	000·2	000·0	999·6	999·5	999·8	000·0	999·5	999·5	999·3	999·1	998·9	998·7	999·2
13	998·1	997·6	997·2	996·5	995·7	995·2	994·9	995·0	995·1	995·5	995·9	996·5	996·9	997·2	997·9	999·1	000·1	001·3	002·4	003·2	004·1	004·5	005·3	005·8	998·6
14	006·4	007·1	007·8	008·4	009·0	009·5	010·2	011·1	011·8	012·2	012·9	013·0	013·2	013·2	013·2	013·6	013·8	014·3	014·7	015·0	014·8	014·6	014·2	013·7	011·8
15	013·4	012·6	011·3	010·3	009·6	008·8	008·6	008·6	008·3	008·4	008·4	008·2	007·7	007·7	007·1	006·8	006·9	006·7	006·3	005·7	005·0	004·1	003·3	002·0	008·0
16	000·6	999·1	997·6	995·5	993·8	992·4	990·9	989·9	989·1	989·2	989·2	988·9	988·4	988·0	987·5	986·7	986·2	986·6	986·4	986·5	987·0	987·4	987·9	988·2	**990·4**
17	988·6	989·2	989·8	989·9	990·2	990·0	990·2	989·9	989·8	989·9	990·3	991·0	991·8	993·1	994·0	995·5	997·1	998·5	999·6	000·5	001·5	002·9	003·7	004·6	993·9
18	006·2	005·6	006·0	006·2	006·8	007·1	007·5	008·1	008·8	009·0	009·3	009·3	008·9	008·7	008·7	008·1	008·4	008·1	008·3	008·2	008·3	008·5	008·6	008·7	007·9
19	008·7	008·8	008·8	009·2	010·0	010·7	011·3	011·9	012·6	013·4	013·4	013·7	013·8	013·9	013·8	014·2	014·4	014·8	015·4	015·6	016·1	016·4	016·3	015·9	012·9
20	015·9	015·4	014·8	014·4	014·0	013·8	013·3	012·9	012·7	012·2	011·7	011·0	009·9	009·3	008·6	008·5	008·1	008·0	007·6	007·2	007·0	006·8	006·7	006·7	010·9
21	006·1	005·9	005·8	005·6	005·1	004·9	005·1	005·4	005·5	005·6	006·5	006·6	006·8	007·1	008·1	008·8	010·0	011·1	011·9	012·8	013·6	014·3	015·2	015·5	008·3
22	016·0	016·4	016·6	017·0	017·3	017·6	018·3	018·7	018·8	019·2	019·2	018·8	018·6	018·5	018·6	018·3	018·5	018·8	018·9	018·9	019·1	019·0	019·0	019·3	018·2
23	019·3	019·3	019·2	019·0	019·2	019·2	019·5	019·9	020·1	020·2	020·2	020·0	019·7	019·5	019·6	019·7	019·9	020·4	021·3	021·5	022·1	022·3	022·7	023·4	020·2
24	024·0	024·1	024·2	024·6	024·9	025·4	026·2	026·7	027·2	027·2	027·1	027·0	027·0	026·2	026·1	026·1	026·0	026·2	026·2	026·1	026·0	025·5	025·1	024·7	**025·8**
25	024·4	023·9	023·3	022·9	022·6	022·5	022·3	022·3	022·2	022·2	021·5	020·9	020·4	019·7	019·3	018·9	018·6	018·7	018·9	018·6	018·0	017·9	017·6	017·1	020·8
26	016·7	016·1	015·4	014·9	014·5	014·1	013·7	013·6	013·0	012·8	012·2	011·4	010·8	009·9	009·9	009·8	011·1	012·9	013·9	014·8	015·3	015·7	015·7	016·0	013·5
27	016·6	016·5	016·7	016·4	016·2	016·2	016·7	016·5	016·5	016·1	015·8	014·6	013·5	012·3	010·7	009·8	008·6	007·3	005·4	003·0	000·7	998·4	996·2	994·3	011·1
28	993·1	992·7	992·8	992·8	992·8	992·7	993·0	993·0	992·7	992·5	992·3	991·6	990·4	990·2	989·1	988·9	989·5	989·6	989·9	990·4	991·3	992·1	992·3	992·1	991·6
Mean (Station level)	**1011 ·18**	1010 ·96	1010 ·81	1010 ·64	1010 ·56	1010 ·46	1010 ·54	1010 ·70	1010 ·82	1011 ·00	1011 ·10	1010 ·88	1010 ·62	1010 ·45	**1010 ·30**	1010 ·31	1010 ·55	1010 ·84	1010 ·95	1011 ·06	1011 ·13	1011 ·16	1011 ·13	1011 ·04	1010 ·81
Mean (Sea level)	**1012 ·48**	1012 ·26	1012 ·11	1011 ·95	1011 ·86	1011 ·76	1011 ·84	1012 ·00	1012 ·12	1012 ·30	1012 ·39	1011 ·17	1011 ·91	1011 ·73	**1011 ·58**	1011 ·60	1011 ·84	1012 ·13	1012 ·25	1012 ·36	1012 ·43	1012 ·46	1012 ·43	1012 ·34	1012 ·10
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

443. Richmond (Kew Observatory) : H_b (height of barometer cistern above M.S L.) = 10·4 metres. March, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	991·7	990·9	990·3	991·0	992·2	994·3	997·2	998·7	000·0	001·1	001·7	001·8	001·8	001·7	002·4	003·5	004·3	005·8	007·1	008·3	009·1	009·9	010·7	011·0	**000·7**
2	011·5	011·7	012·0	012·0	012·0	012·0	012·3	012·4	012·4	012·3	012·6	012·4	012·0	011·7	011·1	011·1	011·0	011·3	011·4	011·5	011·5	011·5	011·3	011·4	011·8
3	011·3	011·1	010·8	010·7	010·9	010·5	010·5	010·7	010·5	010·6	010·5	009·9	009·5	009·2	008·5	008·2	008·3	008·0	008·5	008·8	008·5	008·3	008·4	008·0	009·7
4	008·1	008·2	008·2	008·4	008·8	009·0	009·8	010·3	010·9	011·5	012·1	012·5	012·5	012·7	012·9	013·6	014·1	015·0	015·4	015·9	016·2	016·6	016·6	016·7	012·2
5	017·0	016·9	016·6	016·4	016·4	016·4	016·2	016·2	016·2	015·8	015·7	015·0	014·1	012·9	012·8	012·6	012·5	012·7	012·7	012·3	012·3	011·9	011·4	011·1	014·5
6	010·7	010·2	009·8	009·5	009·2	009·0	009·3	009·3	009·2	008·8	008·4	008·0	007·4	006·9	006·2	005·8	005·6	005·6	005·4	005·2	005·1	004·8	004·5	004·3	007·6
7	004·1	003·8	003·5	003·1	003·2	003·2	003·4	003·5	003·7	003·7	004·0	003·6	003·4	003·3	003·2	003·4	003·8	004·4	005·0	005·4	004·6	006·0	006·3	006·6	004·0
8	006·7	006·7	006·6	006·8	007·2	007·6	008·0	008·2	008·5	008·8	009·0	008·9	008·8	008·7	008·5	008·6	008·5	008·5	008·4	008·3	008·2	007·8	007·5	006·9	008·0
9	006·3	005·8	005·2	004·7	005·1	003·7	003·7	004·2	004·2	004·3	004·4	004·4	004·6	004·7	004·7	004·7	004·8	004·9	005·4	005·2	005·3	005·1	004·7	004·6	004·8
10	004·5	004·3	004·0	003·4	003·4	003·0	003·0	003·1	003·2	003·3	003·4	003·2	002·9	002·6	002·4	002·9	003·3	003·9	004·5	004·8	005·1	005·1	005·1	005·1	003·7
11	005·2	005·2	004·9	005·1	005·3	005·4	005·8	006·3	007·0	007·5	008·0	008·5	008·6	008·8	008·9	009·1	009·3	009·7	010·1	010·4	010·7	010·4	010·3	010·1	007·8
12	010·0	009·4	008·9	008·7	008·7	009·1	009·2	009·4	009·4	009·4	009·3	009·3	009·3	009·2	008·9	008·7	008·7	009·1	009·0	009·2	009·1	009·1	008·7	008·5	009·1
13	008·4	008·0	007·6	007·0	006·6	006·4	006·4	006·4	006·0	005·6	005·1	004·7	004·3	003·6	003·0	002·6	002·4	002·4	002·6	002·4	002·6	002·5	002·4	002·2	004·8
14	001·9	001·7	001·6	001·6	001·7	002·0	002·4	002·8	003·1	003·5	004·0	004·1	004·1	004·1	004·2	004·5	004·9	005·6	006·3	007·2	007·8	008·4	008·6	009·1	004·2
15	009·7	010·2	010·0	010·2	010·6	010·7	011·2	011·7	012·2	012·3	012·1	012·0	011·4	011·0	011·0	010·7	010·7	011·1	011·6	011·9	012·2	012·3	012·2	012·2	011·2
16	012·0	011·9	011·6	011·1	011·0	011·1	011·2	011·5	011·6	011·7	011·5	011·2	010·8	010·6	010·4	010·6	010·8	011·4	011·5	011·7	011·7	011·7	011·7	011·8	011·3
17	011·8	011·6	011·6	011·7	011·9	012·1	012·2	012·4	012·5	012·6	012·3	012·1	012·0	011·1	011·3	010·9	010·9	011·3	011·3	011·0	010·9	010·9	010·6	010·5	011·6
18	010·3	010·1	010·0	009·8	009·6	009·5	009·7	009·8	009·9	009·8	009·6	009·5	009·1	008·5	008·2	008·6	008·7	009·3	009·8	010·1	010·0	010·1	010·3	010·1	009·6
19	010·2	010·2	010·2	009·9	010·1	010·1	010·6	010·6	010·5	010·0	010·1	009·6	009·2	008·5	008·2	008·0	008·5	008·3	008·5	008·9	008·8	008·8	008·6	008·3	009·4
20	008·2	008·0	007·7	007·4	007·3	007·0	007·3	007·1	007·4	007·3	006·5	006·5	005·8	005·3	004·9	004·7	005·0	004·7	004·4	004·5	004·5	004·6	004·5	004·4	006·1
21	004·2	004·1	003·8	003·9	003·9	004·5	005·5	006·5	007·2	007·9	008·6	008·8	008·7	008·9	008·9	009·0	009·4	009·7	010·0	010·8	011·3	011·5	011·7	011·9	007·8
22	012·1	012·0	011·7	011·7	011·8	012·0	012·2	012·7	012·8	012·8	012·6	012·4	012·0	011·6	011·5	011·5	011·6	011·8	012·2	012·2	012·3	012·3	012·3	012·4	012·1
23	012·3	012·3	012·2	012·5	012·7	013·0	013·7	013·9	014·3	014·7	014·8	014·8	014·8	014·8	014·5	014·8	015·3	016·1	016·9	017·8	018·6	019·4	020·5	021·2	015·1
24	021·7	021·8	022·2	022·5	022·6	023·0	023·4	024·0	024·5	024·8	025·1	025·4	025·4	025·5	025·6	025·6	025·8	026·3	026·8	027·2	027·7	028·2	028·2	028·6	024·9
25	028·4	028·5	028·5	028·5	028·8	029·2	029·6	030·1	030·5	030·5	031·0	031·0	030·7	030·4	030·0	029·9	030·1	030·5	031·1	031·1	031·4	031·6	031·6	031·7	030·1
26	031·8	031·7	031·8	031·6	031·5	031·5	031·7	031·8	031·9	031·7	031·6	031·0	030·4	029·9	029·6	029·4	029·4	029·5	029·7	029·7	029·7	029·7	029·7	029·6	**030·7**
27	029·5	029·0	028·6	028·3	028·0	027·9	028·0	028·0	027·6	027·0	026·6	025·8	024·8	024·0	023·4	022·9	022·6	022·5	022·4	022·4	022·2	022·2	022·1	021·9	025·5
28	021·7	021·2	020·8	020·7	020·6	020·6	020·9	021·3	021·5	021·4	021·4	021·4	021·2	021·1	021·2	021·9	022·8	024·1	024·9	025·7	026·5	026·6	026·8	026·9	022·5
29	027·0	027·1	027·1	027·3	027·4	027·5	027·7	028·1	028·2	028·4	028·3	028·1	027·8	027·2	026·6	026·0	025·7	025·6	025·5	025·5	025·1	024·9	024·9	024·8	026·8
30	024·5	024·3	023·8	023·4	023·5	023·3	023·6	023·4	023·6	023·4	023·4	023·3	023·1	022·7	022·2	021·9	022·0	022·2	022·3	022·4	022·4	022·5	022·5	022·4	023·1
31	022·7	022·6	022·3	022·2	022·0	022·0	022·2	022·2	022·2	022·2	022·2	022·1	021·8	021·1	020·9	020·8	020·6	020·8	021·0	021·2	021·1	021·0	020·8	020·6	021·6
Mean (Station level)	1012 ·76	1012 ·60	1012 ·38	**1012 ·29**	1012 ·39	1012 ·47	1012 ·83	1013 ·12	1013 ·18	1013 ·38	1013 ·42	1013 ·27	1012 ·98	1012 ·65	1012 ·58	1012 ·47	1012 ·63	1012 ·97	1013 ·28	1013 ·52	1013 ·63	**1013 ·73**	**1013 ·73**	1013 ·71	1012 ·98
Mean (Sea level)	1014 ·06	1013 ·90	1013 ·69	**1013 ·60**	1013 ·69	1013 ·78	1014 ·14	1014 ·42	1014 ·48	1014 ·67	1014 ·71	1014 ·55	1014 ·26	1013 ·94	1013 ·87	1013 ·75	1013 ·91	1014 ·26	1014 ·58	1014 ·81	1014 ·93	**1015 ·03**	**1015 ·03**	1015 ·01	1014 ·28

444. Richmond (Kew Observatory) : H_b = 10·4 metres. April, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	020·0	019·6	019·1	018·9	018·6	018·3	018·0	017·4	017·0	016·6	015·8	015·0	014·4	013·4	012·7	011·8	011·4	010·7	009·9	009·2	008·5	007·6	007·0	006·1	014·3
2	005·4	004·7	003·6	003·3	002·6	002·2	002·1	001·7	001·5	001·4	000·8	000·3	999·7	999·1	998·6	998·3	998·3	998·5	998·5	998·5	998·5	998·1	998·0	997·8	000·7
3	997·7	997·8	997·8	998·0	998·3	998·8	999·6	000·1	000·8	001·6	002·1	002·8	003·5	003·8	004·2	004·8	005·5	006·3	007·3	008·2	008·8	009·2	009·5	009·9	002·9
4	010·1	010·5	011·1	011·7	012·3	013·0	013·5	013·8	014·4	014·4	014·6	014·7	014·7	014·6	014·0	013·7	013·9	014·0	014·2	014·5	014·1	014·0	013·8	013·3	013·4
5	012·8	012·2	011·5	010·6	010·4	010·2	009·8	009·3	008·9	008·8	009·1	008·9	008·8	008·5	008·0	007·7	007·7	007·4	007·4	007·2	007·0	006·9	006·7	006·5	009·0
6	006·3	005·7	005·3	004·7	004·4	004·6	005·1	006·0	006·4	007·1	007·8	008·0	008·1	008·1	008·0	008·2	008·6	009·1	009·4	010·0	010·1	010·0	010·0	010·0	007·5
7	009·8	009·5	009·4	009·0	009·0	009·1	009·4	009·3	009·3	009·4	009·2	009·1	009·0	008·9	008·7	008·6	008·8	008·9	009·2	009·8	009·9	010·5	010·7	010·8	009·4
8	011·2	011·6	011·6	011·6	011·6	012·1	012·3	012·7	012·6	012·7	013·1	013·3	013·0	012·7	012·5	012·7	012·8	013·5	014·0	014·6	014·9	015·4	015·7	015·9	013·0
9	015·8	015·9	015·9	015·9	016·2	016·6	017·0	017·5	017·8	018·0	017·9	018·1	018·0	017·7	017·9	017·9	017·9	018·0	018·2	018·8	019·2	019·6	019·9	020·1	017·7
10	020·0	020·1	020·4	020·9	021·6	022·5	023·2	023·9	024·5	024·8	024·8	024·7	024·6	024·5	024·2	024·0	023·9	024·0	024·5	025·0	025·6	025·8	026·0	026·0	023·6
11	025·5	025·5	025·0	024·7	024·7	024·5	024·5	024·1	024·0	023·9	023·0	022·6	021·8	021·3	020·6	020·3	019·9	019·8	020·0	020·1	019·9	019·8	019·4	019·1	022·4
12	019·0	018·6	018·4	018·1	017·9	018·1	017·9	017·6	017·1	016·5	015·7	015·2	015·0	014·6	014·3	014·1	014·5	014·8	015·5	016·4	016·9	017·1	017·2	017·2	016·6
13	017·4	017·9	018·3	019·0	019·8	020·6	021·7	022·7	023·0	023·3	023·8	023·7	023·8	023·9	023·7	023·7	024·0	024·3	024·6	024·8	024·9	024·8	024·4	024·4	022·5
14	024·2	024·1	023·5	023·2	023·2	023·5	023·6	023·6	023·7	023·8	023·9	024·0	023·9	023·9	023·8	023·7	023·7	023·5	023·7	023·9	023·9	024·1	023·9	023·7	**023·8**
15	023·6	023·3	023·1	023·1	022·8	022·5	022·6	022·4	022·1	021·6	021·1	020·4	019·8	018·8	017·8	017·2	016·6	016·0	015·6	015·2	014·9	014·8	014·9	015·1	019·6
16	015·3	015·6	015·7	016·1	016·7	017·3	018·1	018·8	019·8	020·1	020·7	021·1	021·1	020·6	020·4	020·2	020·0	019·9	019·8	019·6	018·9	017·9	016·8	015·5	018·6
17	014·2	012·3	010·5	009·2	007·6	006·2	005·1	004·9	005·0	004·9	004·4	003·7	003·5	002·8	001·7	000·6	000·9	000·2	000·7	001·0	000·7	000·1	999·6	999·5	004·5
18	999·8	999·9	000·2	000·0	999·2	998·4	997·8	997·5	998·2	000·9	002·4	002·4	002·6	002·7	002·7	002·8	002·9	003·3	003·2	003·1	003·0	003·0	002·9	002·9	001·3
19	002·7	002·3	001·7	001·7	002·9	004·4	005·3	005·6	006·2	006·6	006·8	006·6	006·4	006·6	006·6	006·6	006·6	006·8	006·9	007·1	007·3	007·4	007·3	007·2	005·6
20	007·1	007·1	007·1	006·9	007·0	007·1	007·2	007·2	007·4	007·5	007·5	007·7	007·6	007·7	007·7	008·1	008·3	008·8	009·4	010·2	010·7	010·8	011·0	011·1	008·2
21	011·2	011·2	011·4	011·4	011·8	012·4	012·6	012·6	012·7	012·8	012·8	012·5	012·4	012·3	012·0	011·9	011·9	012·1	012·3	012·6	012·7	012·7	012·4	012·4	012·2
22	012·2	011·8	011·6	011·3	011·2	011·1	011·1	011·1	011·0	010·6	010·4	010·1	009·9	009·4	008·9	008·9	008·7	008·7	008·7	008·9	009·1	009·1	009·2	009·2	010·2
23	009·1	008·8	008·7	008·5	008·3	008·3	008·3	008·4	008·1	008·1	007·8	007·4	007·0	006·6	006·4	006·1	005·8	005·6	005·5	005·5	005·5	005·4	005·2	004·7	007·1
24	004·0	003·5	002·9	002·4	002·1	002·3	002·2	002·1	001·6	001·3	000·8	000·6	999·9	999·5	998·7	998·5	998·3	998·0	997·3	997·2	996·9	996·0	995·6	994·6	000·1
25	994·1	993·4	992·9	992·2	991·7	990·9	990·1	988·8	986·7	985·7	985·7	985·4	985·1	984·9	984·7	986·2	986·7	987·1	987·9	988·4	989·0	989·6	990·0	990·4	**988·7**
26	990·8	991·0	991·2	991·3	991·6	992·0	992·3	992·5	992·7	992·7	992·7	992·7	992·7	992·7	992·9	993·0	993·3	993·6	994·4	994·8	995·1	995·4	995·6	995·8	992·9
27	996·0	996·6	997·4	998·3	999·5	000·9	002·2	003·1	003·8	004·5	005·1	005·6	006·4	006·5	006·4	007·0	007·3	007·7	008·7	009·2	009·3	009·9	010·4	010·8	004·4
28	**011·1**	011·6	012·1	012·7	012·9	013·5	014·0	014·3	014·5	014·6	014·6	014·3	014·4	014·4	014·0	013·5	013·5	013·3	013·3	013·5	013·5	013·6	013·7	013·9	013·5
29	014·0	014·0	014·0	013·9	014·3	014·7	015·1	015·5	015·8	016·3	016·7	016·8	017·0	017·1	017·0	016·7	016·8	016·8	017·1	017·7	017·8	017·8	017·8	017·7	016·1
30	017·6	017·3	017·1	017·0	017·3	017·3	017·4	017·3	017·1	016·9	016·5	016·1	015·6	015·2	014·9	014·6	014·5	014·3	014·5	014·6	014·7	014·4	014·2	013·9	015·9
Mean (Station level)	1010 ·60	1010 ·45	1010 ·28	1010 ·19	1010 ·25	1010 ·45	1010 ·64	1010 ·73	1010 ·79	1010 ·91	**1010 ·92**	1010 ·79	1010 ·66	1010 ·43	1010 ·13	**1010 ·05**	1010 ·10	1010 ·17	1010 ·39	1010 ·65	1010 ·71	1010 ·69	1010 ·63	1010 ·52	1010 ·51
Mean (Sea level)	1011 ·89	1011 ·73	1011 ·57	1011 ·47	1011 ·54	1011 ·73	1011 ·92	1012 ·01	1012 ·07	1012 ·19	**1012 ·19**	1012 ·06	1011 ·92	1011 ·69	1011 ·40	**1011 ·31**	1011 ·37	1011 ·43	1011 ·66	1011 ·93	1011 ·99	1011 ·97	1011 ·91	1011 ·80	1011 ·79
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

Note.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

445. Richmond (Kew Observatory) : H_b (height of barometer cistern above M.S.L.) = 10·4 metres. **May, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day. (Station Level)	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	013·5	013·0	012·9	012·6	012·3	012·5	012·1	012·3	011·9	011·6	010·8	010·3	009·9	009·7	008·9	008·7	008·4	008·1	007·9	008·1	007·9	007·7	007·4	007·0	010·4
2	006·5	006·4	006·2	005·9	005·6	005·5	005·6	005·4	005·1	005·1	004·4	003·9	003·6	003·4	003·0	002·5	002·5	002·5	002·5	002·8	002·6	002·5	002·2	001·9	004·2
3	001·3	001·1	000·9	000·4	000·3	000·0	999·7	999·4	999·0	998·7	998·2	997·7	997·5	997·4	997·3	996·9	996·7	996·6	996·5	996·8	996·6	996·5	996·3	996·2	998·4
4	996·3	996·2	996·3	996·6	997·1	997·9	998·3	998·6	998·7	999·0	999·6	999·7	000·0	000·7	001·0	002·0	003·0	003·3	003·9	004·7	005·4	006·0	006·7	007·2	000·5
5	007·6	008·0	008·5	008·8	009·4	009·8	010·3	010·4	010·7	011·1	011·2	011·5	011·9	012·3	012·7	012·9	013·1	013·5	014·0	014·5	014·6	014·6	014·6	014·7	011·5
6	014·6	014·3	014·2	014·1	014·3	014·3	014·3	014·0	013·9	013·8	013·6	012·9	012·3	011·9	011·5	011·2	011·0	010·9	011·0	011·2	011·2	011·6	011·7	011·8	012·8
7	011·7	012·1	012·6	012·9	013·5	014·1	014·3	014·1	014·5	014·5	014·6	014·6	015·0	015·1	015·0	014·6	014·7	014·6	014·9	015·2	015·3	015·5	015·5	015·5	014·3
8	015·3	015·1	014·9	014·8	014·8	014·9	014·9	015·2	015·4	015·5	015·7	015·5	015·5	015·8	015·8	015·8	015·8	016·1	017·6	018·4	019·0	019·5	019·7	020·1	016·2
9	020·3	020·3	020·7	020·9	021·7	022·1	022·1	022·5	022·8	023·1	023·1	023·1	023·1	022·7	022·5	022·4	022·3	022·3	022·5	022·8	023·0	023·0	022·9	022·8	**022·2**
10	022·6	022·3	021·9	021·6	021·6	021·9	021·7	021·6	021·5	021·3	021·0	020·6	020·4	020·2	019·6	019·4	019·1	018·9	019·1	019·2	019·1	018·9	018·6	018·4	020·5
11	018·3	017·7	017·2	016·9	016·9	017·0	016·8	016·9	016·9	017·1	017·1	017·0	017·1	016·8	016·6	016·6	017·0	017·2	017·8	018·3	018·9	019·3	019·4	019·5	017·5
12	019·2	019·3	019·5	019·3	019·6	020·0	020·1	020·5	020·3	020·3	020·4	020·1	020·0	019·6	019·6	019·6	019·4	019·3	019·6	019·6	019·7	019·7	019·6	019·4	019·7
13	019·1	018·8	018·2	017·9	017·6	017·6	017·4	016·9	016·7	015·9	014·9	014·0	013·2	012·8	012·5	012·5	012·4	011·5	011·3	011·9	011·9	012·1	012·0	012·4	014·8
14	012·2	012·1	012·0	011·8	011·8	012·1	012·0	012·5	012·6	012·8	012·7	012·4	012·5	012·5	012·5	012·4	012·4	012·5	012·7	013·0	013·0	012·8	012·7	012·7	012·4
15	012·5	012·1	011·8	011·4	011·2	010·8	010·7	010·5	009·9	009·4	008·8	008·0	007·4	006·7	006·0	005·2	003·6	003·0	003·0	002·9	002·6	002·6	002·5	002·8	007·5
16	002·7	002·6	002·6	002·6	002·9	003·3	003·3	003·4	003·0	002·9	002·7	002·2	001·9	001·9	001·1	000·4	000·4	000·1	999·7	999·7	999·5	999·0	998·6	998·2	001·5
17	997·4	997·1	996·9	996·5	996·5	996·6	996·6	996·5	996·4	996·4	996·4	996·5	996·7	996·7	996·7	996·9	997·3	997·7	998·0	998·4	998·6	998·6	998·6	998·6	**997·2**
18	998·5	998·3	998·1	998·4	998·7	999·4	000·0	000·4	000·6	000·9	001·5	001·8	001·5	001·4	001·6	002·2	002·7	002·9	003·3	003·9	004·5	004·9	005·1	005·4	001·4
19	005·5	005·8	006·0	006·6	007·2	007·6	007·7	008·0	007·9	008·8	008·9	009·2	009·1	009·3	009·5	009·8	009·9	010·5	011·0	011·7	011·9	012·4	012·8	013·0	009·0
20	013·4	013·5	013·5	013·5	013·7	014·3	014·6	014·7	014·5	014·6	014·7	015·0	014·8	014·9	014·9	014·9	014·9	015·1	015·4	015·5	015·9	016·0	015·9	015·8	014·7
21	015·7	015·6	015·3	015·1	014·8	014·6	014·4	014·4	014·1	013·7	013·4	012·9	012·4	012·2	011·8	011·6	011·3	011·1	010·9	011·0	010·5	009·9	009·4	009·2	012·9
22	008·9	008·6	007·9	007·8	007·8	008·1	008·5	008·7	009·1	009·4	009·3	009·7	009·8	009·5	009·6	009·8	010·0	010·4	010·9	011·0	011·5	011·5	011·0	011·3	009·5
23	011·5	011·3	011·0	010·7	011·1	011·4	011·2	011·2	010·3	010·8	010·8	010·5	010·7	010·5	010·3	009·1	010·1	009·1	008·8	008·9	009·1	009·0	008·7	007·9	010·2
24	007·9	007·9	007·4	006·8	006·7	006·5	006·0	005·6	005·2	006·3	007·5	009·3	010·4	011·9	012·4	013·3	013·9	014·5	015·0	015·6	016·6	017·3	017·7	018·0	010·6
25	018·3	018·7	019·1	019·2	019·6	020·2	020·7	020·9	020·9	020·7	020·6	020·5	020·3	020·4	020·4	020·2	020·2	020·3	020·4	020·6	020·8	020·9	021·0	021·3	020·2
26	021·4	021·0	020·4	020·5	020·3	020·3	020·2	020·3	020·2	020·0	019·8	019·5	019·1	018·8	018·4	018·1	017·8	017·8	017·9	018·0	018·3	018·2	017·8	017·5	019·3
27	017·1	017·1	016·6	016·1	015·9	015·9	016·1	015·9	015·0	014·1	013·3	012·5	012·7	012·6	011·6	011·1	010·5	010·1	009·6	009·2	009·2	008·4	008·1	008·5	013·0
28	007·8	006·7	006·2	004·7	004·7	004·1	003·0	002·8	002·8	003·1	003·3	003·4	004·0	004·7	005·6	006·0	006·3	006·7	007·2	007·9	008·6	008·6	008·9	008·4	005·7
29	008·6	008·4	008·1	008·3	007·8	007·6	007·6	007·4	007·2	006·7	006·4	006·5	006·0	006·2	006·1	006·6	006·8	006·6	006·8	007·1	007·8	007·9	008·1	007·6	007·3
30	007·7	007·6	007·3	007·4	007·5	007·7	008·1	007·9	008·0	007·8	007·4	007·1	007·4	007·3	007·6	007·5	006·9	007·0	006·7	006·9	006·9	007·1	006·9	006·5	007·4
31	006·5	006·1	005·9	005·9	005·9	006·2	006·1	006·1	006·2	006·0	006·0	006·0	006·1	006·2	006·0	006·1	006·2	006·3	006·5	007·2	007·7	007·6	007·5	007·5	006·4
Mean (Station level)	**1010 ·97**	1010 ·81	1010 ·65	1010 ·52	1010 ·61	1010 ·78	1010 ·79	1010 ·81	1010 ·69	1010 ·69	1010 ·58	1010 ·45	1010 ·40	1010 ·39	1010 ·26	**1010 ·20**	1010 ·21	1010 ·21	1010 ·40	1010 ·71	1010 ·91	1010 ·95	1010 ·90	1010 ·87	1010 ·62
Mean (Sea level)	**1012 ·24**	1012 ·08	1011 ·92	1011 ·79	1011 ·88	1012 ·05	1012 ·05	1012 ·07	1011 ·94	1011 ·94	1011 ·83	1011 ·69	1011 ·64	1011 ·63	1011 ·51	**1011 ·45**	1011 ·46	1011 ·46	1011 ·65	1011 ·97	1012 ·17	1012 ·22	1012 ·17	1012 ·14	1011 ·88

446. Richmond (Kew Observatory) : H_b = 10·4 metres. **June, 1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
(Station Level)	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	007·3	007·2	007·1	007·0	006·8	006·8	007·1	007·2	007·3	007·5	007·3	007·4	007·6	007·4	007·4	007·5	007·8	008·2	008·8	009·3	010·2	010·8	011·3	011·8	008·0
2	012·4	012·9	013·3	013·8	014·7	015·3	015·9	016·6	016·7	017·2	017·5	017·5	017·4	017·3	017·2	016·9	017·1	017·3	017·5	017·8	018·1	018·3	018·4	018·3	016·3
3	017·9	017·8	017·6	017·6	017·8	017·9	018·2	018·3	018·6	018·6	018·7	018·6	018·7	018·9	018·9	018·9	018·5	018·4	018·5	018·7	019·0	019·2	019·1	018·9	018·5
4	018·7	018·7	018·7	018·6	018·8	018·8	018·8	018·8	018·6	018·1	017·6	017·0	016·5	015·7	015·5	015·3	015·1	015·3	015·2	015·3	015·5	015·7	015·9	015·9	017·1
5	015·7	015·8	015·5	015·5	015·5	015·5	015·1	015·1	014·5	013·9	013·7	013·6	012·6	011·7	012·8	012·4	012·2	010·9	010·7	010·0	009·5	009·3	008·3	008·2	013·0
6	007·0	006·9	006·7	006·9	007·2	007·6	007·8	007·9	008·1	008·3	008·3	008·4	008·5	008·4	008·2	008·0	008·0	008·3	008·2	008·5	008·5	008·5	008·2	008·3	007·9
7	008·2	007·9	007·8	007·8	007·6	007·3	007·1	006·9	006·7	006·5	006·2	005·7	005·2	004·8	004·5	004·0	003·9	003·7	003·4	003·2	003·3	003·3	003·5	003·6	005·6
8	004·0	004·3	004·8	005·2	005·6	006·2	006·8	007·3	007·7	007·9	008·2	008·2	008·5	008·6	008·9	009·1	009·4	009·7	009·9	010·5	010·9	011·0	011·0	010·9	008·0
9	010·5	010·4	010·3	009·9	009·7	009·5	009·0	009·1	009·1	008·8	008·9	009·0	009·0	008·8	009·0	009·0	008·9	009·1	009·2	009·5	009·8	009·9	010·0	010·0	009·5
10	010·2	010·1	010·1	010·3	010·3	011·3	011·3	011·7	011·8	011·6	011·5	011·7	011·3	011·2	011·0	010·8	010·8	010·6	010·4	010·4	010·6	010·6	010·8	010·9	010·9
11	010·8	010·8	010·9	010·9	011·7	012·6	012·9	013·7	014·0	014·7	014·9	015·1	014·9	015·0	015·2	015·0	015·0	014·9	015·0	015·0	015·2	015·7	015·6	015·6	013·9
12	015·4	015·4	015·1	015·4	015·6	015·8	015·9	016·3	016·6	016·3	016·1	016·3	016·5	016·3	016·6	017·0	017·2	018·1	018·6	019·1	019·7	019·8	020·0	020·4	017·0
13	020·5	020·8	020·6	020·4	020·5	020·6	020·9	021·0	021·0	020·7	019·9	019·4	019·0	018·0	017·4	016·7	016·4	015·5	015·1	015·3	014·8	014·8	013·8	012·9	018·3
14	011·6	010·9	010·0	009·0	008·6	007·8	006·9	005·6	006·1	003·1	002·2	000·5	999·5	998·8	000·3	000·9	001·5	001·8	002·3	002·7	002·9	003·9	004·5	005·2	**004·6**
15	005·7	006·9	008·5	009·8	011·2	012·8	014·1	015·0	015·9	016·5	016·8	017·1	017·2	017·2	017·5	017·6	017·6	018·0	018·1	018·2	018·4	018·1	018·0	017·9	014·9
16	017·7	017·1	016·8	016·4	016·2	016·3	015·9	015·6	015·4	015·2	015·4	015·0	014·9	014·8	014·6	014·5	014·2	014·1	013·4	013·3	013·1	012·9	012·4	011·8	015·0
17	011·0	010·2	009·4	008·8	008·0	007·6	007·5	007·6	007·9	008·3	009·2	009·2	009·5	009·9	010·0	010·2	010·1	010·2	010·8	010·9	011·4	011·6	011·8	011·8	009·7
18	011·9	011·9	012·2	012·5	012·7	012·9	013·3	013·3	013·0	012·9	012·9	012·3	012·8	012·6	012·2	011·7	011·0	010·7	010·4	010·4	010·0	009·5	008·7	008·0	011·7
19	007·4	007·0	005·8	005·2	004·8	004·9	004·9	004·8	004·6	004·8	004·7	004·9	005·0	005·4	005·2	005·8	006·5	007·3	007·9	008·7	009·5	010·3	010·7	011·3	006·5
20	012·1	013·0	013·6	014·5	015·3	016·4	017·1	017·8	018·5	019·4	019·5	019·9	020·5	020·7	020·7	020·9	021·0	021·3	021·7	022·0	022·3	022·5	022·6	022·8	018·8
21	023·0	022·8	023·0	023·0	023·5	023·4	023·5	023·3	023·2	023·3	023·3	023·2	023·0	022·6	022·0	021·6	021·4	021·5	021·6	021·7	021·8	021·8	021·8	021·6	022·6
22	021·4	021·0	020·6	020·3	019·9	019·9	020·1	020·0	019·5	019·3	018·9	018·3	017·9	017·6	017·4	017·3	017·1	017·0	017·2	017·6	018·5	018·5	018·5	018·6	018·9
23	018·5	018·3	018·2	017·8	017·8	017·6	017·7	017·6	017·4	017·1	016·9	016·4	016·1	015·7	015·2	014·8	014·4	014·4	014·4	014·3	014·5	014·7	014·9	014·7	016·3
24	014·7	014·4	014·3	014·4	014·7	014·8	015·5	015·8	016·7	017·3	017·9	018·3	018·8	019·1	019·5	020·0	020·2	020·6	021·4	022·0	022·7	023·4	023·9	024·3	018·3
25	024·3	024·5	024·6	024·9	025·4	025·8	026·5	027·0	027·3	027·4	027·5	027·5	027·6	027·8	027·9	027·9	027·8	027·8	027·8	028·2	028·7	029·0	029·2	029·1	027·0
26	029·4	029·2	029·2	029·4	029·5	029·5	029·6	029·7	029·7	029·6	029·5	029·2	028·6	028·6	028·6	028·3	028·2	028·2	028·2	028·3	028·7	028·6	028·7	028·7	**029·0**
27	028·6	028·5	028·5	028·5	028·7	028·9	029·0	028·9	028·6	028·3	027·9	027·6	027·4	027·1	026·5	026·1	025·7	025·8	025·7	025·7	025·9	026·0	025·9	025·9	027·4
28	025·7	025·4	025·4	025·4	025·6	025·6	025·6	025·4	025·3	025·2	024·8	024·5	024·2	023·8	023·4	022·9	022·4	022·0	021·8	021·6	021·9	022·0	021·9	022·2	024·0
29	022·3	022·3	022·6	022·8	022·9	023·6	023·8	024·1	024·0	024·0	023·9	023·7	023·6	023·6	023·3	023·0	022·9	022·8	023·0	023·3	023·7	023·9	023·9	024·0	023·3
30	023·9	023·9	024·0	024·2	024·3	024·5	024·5	024·4	024·2	023·7	023·3	022·7	022·3	021·7	021·3	020·8	020·5	020·3	020·2	020·5	020·8	020·7	020·5	020·2	022·5
Mean (Station level)	1015 ·59	1015 ·54	1015 ·51	1015 ·54	1015 ·70	1015 ·92	1016 ·08	1016 ·19	**1016 ·27**	1016 ·18	1016 ·11	1015 ·94	1015 ·82	1015 ·64	1015 ·61	1015 ·50	**1015 ·43**	1015 ·46	1015 ·55	1015 ·73	1016 ·00	1016 ·14	1016 ·13	1016 ·13	1015 ·82
Mean (Sea level)	1016 ·85	1016 ·81	1016 ·77	1016 ·81	1016 ·96	1017 ·18	1017 ·33	1017 ·45	**1017 ·52**	1017 ·43	1017 ·36	1017 ·18	1017 ·06	1016 ·87	1016 ·84	1016 ·73	**1016 ·66**	1016 ·70	1016 ·79	1016 ·98	1017 ·25	1017 ·40	1017 ·38	1017 ·39	1017 ·06
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

447. Richmond (Kew Observatory) : H_b (height of barometer cistern above M.S.L.) = 10·4 metres. July, 1931.

Station Level

Hour. G.M.T. / Day.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	020·0	019·8	019·2	018·9	018·9	018·9	018·4	018·5	018·2	017·9	017·1	016·6
2	013·5	013·1	012·2	011·9	011·5	011·5	011·1	010·9	010·7	011·0	010·6	010·1
3	009·5	009·7	009·5	008·8	008·9	009·1	009·1	009·0	008·3	007·9	007·5	006·8
4	004·4	004·3	004·2	004·3	004·4	004·4	004·9	005·3	005·6	006·0	006·2	006·4
5	009·2	009·0	008·9	008·6	008·5	008·5	008·6	008·6	008·9	008·7	008·6	008·5
6	008·8	008·4	008·1	008·1	007·8	008·1	008·0	008·3	007·9	007·9	007·8	007·7
7	007·1	006·8	007·0	007·0	007·2	007·1	007·1	007·0	006·7	006·3	006·0	005·7
8	005·7	005·8	006·1	006·5	006·5	006·4	007·0	007·0	006·5	006·8	006·9	007·0
9	007·9	007·9	007·9	007·9	008·2	008·6	008·6	008·6	008·5	008·5	008·5	008·5
10	010·5	010·3	010·2	010·5	010·8	011·0	011·4	011·7	011·9	012·2	012·2	012·2
11	014·2	014·4	014·4	014·7	015·1	015·2	015·6	016·1	016·1	016·0	016·3	016·1
12	013·9	013·1	012·4	011·7	011·4	010·9	010·5	008·7	008·9	007·6	006·9	006·3
13	007·0	006·8	006·8	006·8	006·9	007·1	007·0	006·9	006·5	006·4	006·0	006·0
14	006·2	005·9	005·5	005·2	004·8	004·5	004·1	003·8	003·5	003·1	002·6	002·3
15	992·6	992·2	991·9	992·0	992·4	993·0	993·9	994·7	995·3	995·9	996·8	997·7
16	008·2	008·5	009·3	009·9	010·7	011·0	011·7	012·1	012·4	012·6	012·9	013·3
17	014·7	014·3	013·4	013·0	012·8	012·6	012·8	013·0	013·0	013·2	013·2	013·5
18	006·9	006·6	006·5	006·5	006·7	007·0	007·5	007·8	008·3	008·6	008·8	009·1
19	009·0	008·3	007·8	007·2	006·8	006·3	006·0	005·5	004·8	004·2	004·3	004·4
20	006·8	007·0	007·2	007·6	008·2	008·6	009·2	009·9	010·4	011·1	011·4	011·8
21	017·2	017·5	017·8	017·9	018·3	018·7	019·1	019·4	019·5	019·6	019·7	020·0
22	019·7	019·4	019·2	019·1	018·9	018·7	019·0	019·0	019·0	019·2	018·8	018·5
23	016·5	016·2	016·0	016·0	015·7	015·7	015·7	015·6	015·4	015·2	014·9	014·4
24	012·2	011·4	011·1	010·6	010·4	010·5	010·7	010·1	009·7	009·3	008·8	008·2
25	001·6	000·4	999·4	998·4	997·7	997·1	996·5	996·2	996·0	995·9	995·8	995·4
26	999·8	999·9	000·0	000·4	000·7	001·1	001·4	001·7	001·7	001·4	001·2	001·1
27	997·6	998·3	999·0	999·8	000·6	001·6	002·1	002·5	002·9	003·1	003·7	004·0
28	008·5	008·6	008·9	009·1	009·8	010·2	010·8	011·3	011·6	011·8	012·2	012·8
29	016·7	016·7	016·6	016·6	016·6	016·8	017·1	017·0	016·9	016·8	016·5	016·1
30	011·2	010·8	010·0	009·3	008·9	008·6	008·5	008·4	008·0	008·0	008·1	008·2
31	010·4	010·4	010·2	010·3	010·3	010·5	010·8	010·9	010·8	010·9	010·5	010·5
Mean (Station level)	**1009 ·27**	1009 ·09	1008 ·93	1008 ·86	1008 ·92	1009 ·01	1009 ·17	1009 ·21	1009 ·16	1009 ·13	1009 ·06	1009 ·01
Mean (Sea level)	**1010 ·52**	1010 ·34	1010 ·18	1010 ·11	1010 ·17	1010 ·26	1010 ·41	1010 ·45	1010 ·40	1010 ·37	1010 ·29	1010 ·24

Hour. G.M.T. / Day.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	015·9	015·5	015·1	014·5	014·1	014·0	013·9	014·2	014·5	014·3	014·1	014·1	016·7
2	009·8	009·6	009·5	009·1	008·5	008·4	008·6	008·9	009·2	009·3	009·6	009·7	010·4
3	006·7	006·0	005·4	005·0	004·3	004·3	004·3	004·5	004·7	004·8	004·8	004·5	006·9
4	006·7	007·0	007·4	007·4	007·5	007·4	008·1	008·5	009·1	009·4	009·7	009·6	006·5
5	008·7	008·7	008·9	009·1	009·1	009·0	008·9	009·1	009·6	009·3	009·2	009·0	008·9
6	007·7	007·3	006·8	006·6	006·7	006·6	007·0	007·5	008·0	007·7	007·5	007·0	007·7
7	005·5	005·2	004·6	004·9	004·7	005·0	005·2	005·4	005·8	005·9	005·9	005·8	006·1
8	006·5	006·4	006·4	006·8	007·0	007·2	007·2	007·7	007·8	007·8	007·8	008·0	006·8
9	008·4	008·4	008·6	009·0	009·2	009·2	009·2	009·7	010·3	010·4	010·5	010·4	008·8
10	012·0	011·8	011·1	011·2	011·5	011·8	012·3	012·8	013·4	013·7	013·9	014·1	011·8
11	015·9	015·9	015·7	015·7	015·6	015·5	015·3	015·3	015·7	015·5	014·8	014·5	015·4
12	006·6	005·7	005·5	005·6	005·2	004·6	005·1	005·6	006·4	006·5	006·7	006·9	008·2
13	005·8	005·8	006·2	006·5	006·4	006·2	006·4	006·5	006·9	007·0	006·8	006·6	006·6
14	001·7	001·0	000·4	000·0	999·2	998·1	997·5	996·8	996·1	995·2	993·7	993·1	001·3
15	998·6	999·6	000·4	001·2	001·8	002·9	004·1	005·0	006·0	006·8	007·4	008·0	998·4
16	013·8	013·7	013·7	013·7	013·8	014·1	014·3	014·7	014·9	014·8	014·8	015·0	012·5
17	013·6	013·9	013·6	012·5	011·6	010·7	009·6	009·4	008·6	008·0	007·1	007·2	012·1
18	009·1	009·1	009·5	009·3	009·1	009·0	009·2	009·4	009·5	009·7	009·5	009·3	008·4
19	004·5	004·6	004·8	004·9	005·1	005·3	005·3	005·6	006·2	006·4	006·5	006·6	005·9
20	012·2	012·7	012·8	012·8	013·6	013·9	014·8	015·3	015·9	016·5	016·7	017·0	011·6
21	019·8	020·0	020·0	020·0	019·8	019·8	019·8	019·8	019·9	020·0	020·1	019·9	**019·3**
22	018·3	018·1	017·8	017·4	017·5	017·1	017·0	016·9	017·1	016·9	016·8	016·5	018·2
23	013·8	013·7	013·6	013·3	013·2	012·9	013·2	013·1	013·1	012·9	012·9	012·6	014·5
24	007·7	007·3	007·3	007·1	006·6	006·2	006·0	005·6	005·5	004·9	004·0	003·0	008·3
25	995·3	995·4	995·7	995·7	995·8	995·9	996·4	997·3	997·9	998·5	998·9	999·6	**997·3**
26	000·6	999·8	998·9	997·9	997·1	996·8	996·6	996·9	996·9	997·1	997·4	997·5	999·4
27	003·9	004·1	004·3	004·6	005·0	005·5	006·0	006·6	007·1	007·5	008·0	008·3	003·4
28	012·9	013·3	013·6	013·9	014·2	014·7	015·2	015·6	016·0	016·4	016·4	016·7	012·5
29	016·2	015·8	015·3	014·9	014·2	013·5	013·2	013·4	013·2	012·9	012·3	011·8	015·4
30	008·3	008·8	008·9	009·0	008·7	008·9	009·4	010·0	010·1	010·2	010·5	010·5	009·2
31	010·5	010·4	010·4	010·3	009·9	010·1	010·3	010·5	010·9	010·9	011·0	010·9	010·5
Mean (Station level)	1008 ·93	1008 ·86	1008 ·78	1008 ·71	1008 ·58	**1008 ·53**	1008 ·69	1008 ·95	1009 ·23	1009 ·27	1009 ·20	1009 ·15	1008 ·99
Mean (Sea level)	1010 ·16	1010 ·09	1010 ·01	1009 ·93	1009 ·81	**1009 ·76**	1009 ·92	1010 ·19	1010 ·48	1010 ·51	1010 ·45	1010 ·40	1010 ·23

448. Richmond (Kew Observatory) : H_b = 10·4 metres. August, 1931.

Station Level

Day.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	010·9	010·6	010·5	010·7	010·7	010·9	010·9	010·9	010·9	010·6	010·6	010·4
2	011·9	011·8	011·8	012·1	012·5	012·5	012·4	011·9	012·2	012·7	012·9	012·8
3	015·6	015·9	016·2	016·4	016·7	017·3	017·3	017·6	017·9	018·2	017·9	017·9
4	018·1	017·9	017·7	017·6	017·7	017·8	018·1	018·5	018·7	018·8	019·1	018·8
5	017·3	016·9	016·3	015·9	015·7	015·4	015·4	015·2	015·0	014·8	014·4	014·0
6	011·3	010·8	010·5	010·2	010·0	010·3	010·2	010·3	010·4	010·4	010·3	010·2
7	010·8	010·8	010·8	010·8	010·9	011·0	011·0	011·1	010·8	011·0	010·4	010·0
8	004·8	003·6	002·4	001·1	999·7	998·7	997·6	996·7	996·2	995·4	995·5	995·5
9	003·9	004·6	005·2	006·1	006·8	008·0	009·0	009·6	010·2	010·8	011·3	011·7
10	016·7	016·9	016·6	016·6	016·8	016·5	016·3	016·1	015·5	015·6	015·3	014·9
11	019·3	020·2	020·8	021·5	022·2	023·2	023·9	024·6	024·9	025·0	025·1	025·2
12	024·8	024·3	023·8	023·4	023·2	023·1	022·8	022·5	022·1	021·4	020·6	020·0
13	016·2	015·6	015·3	015·2	014·6	014·5	014·4	014·3	014·0	013·7	013·5	012·8
14	006·9	005·8	004·9	004·2	003·5	003·0	002·2	001·6	000·6	000·8	000·1	999·5
15	998·4	998·3	998·3	998·0	997·9	997·6	997·8	998·1	998·0	998·0	997·9	997·9
16	998·2	998·2	998·3	998·2	998·0	997·7	997·6	998·0	998·0	998·0	997·9	998·0
17	001·7	001·9	001·9	002·3	002·7	003·3	003·9	004·6	005·0	005·5	006·3	006·3
18	009·6	009·4	009·2	009·1	009·0	009·4	009·8	010·1	010·2	010·3	010·2	010·2
19	006·6	005·6	004·6	003·7	002·9	002·3	001·2	000·7	999·9	999·4	998·9	998·4
20	996·9	997·2	997·5	997·5	997·5	997·3	997·1	997·0	996·5	995·6	995·1	994·7
21	996·0	996·5	997·2	997·9	998·8	999·7	000·3	001·1	001·8	002·7	003·1	004·3
22	009·0	008·9	008·7	008·7	008·9	009·1	009·2	009·0	009·0	008·9	008·6	008·4
23	007·8	007·8	007·6	007·6	007·9	008·1	008·1	008·4	008·7	008·8	009·0	008·8
24	008·1	007·7	007·1	006·5	006·3	006·1	006·0	005·5	004·5	004·2	003·9	003·0
25	002·8	003·2	003·7	004·4	005·3	006·5	007·6	008·2	009·2	010·3	011·5	012·5
26	023·9	024·4	024·4	024·6	024·8	025·9	026·6	027·2	027·5	027·6	027·7	027·4
27	028·5	028·4	028·4	028·3	028·6	028·7	028·6	028·6	028·5	028·4	028·0	027·8
28	025·7	025·4	025·0	024·8	024·8	024·6	024·5	024·7	024·4	024·1	023·6	023·3
29	020·4	020·2	019·8	019·2	018·9	019·3	018·9	018·2	018·2	017·7	017·0	017·2
30	016·3	016·1	015·5	015·3	015·4	015·5	015·6	015·6	015·6	015·6	015·1	015·0
31	014·7	014·4	014·2	014·2	014·4	014·6	014·8	014·9	015·0	015·3	015·6	015·6
Mean (Station level)	1011 ·39	1011 ·27	1011 ·10	1011 ·03	1011 ·07	1011 ·22	1011 ·26	1011 ·32	1011 ·27	1011 ·28	1011 ·17	1011 ·05
Mean (Sea level)	1012 ·64	1012 ·52	1012 ·36	1012 ·29	1012 ·33	1012 ·48	1012 ·51	1012 ·57	1012 ·52	1012 ·52	1012 ·41	1012 ·29
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon

Day.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	010·3	010·5	010·2	010·5	010·7	011·1	011·4	011·7	011·9	012·0	012·3	012·2	010·9
2	013·1	012·8	012·7	012·6	012·9	013·2	013·7	014·2	014·7	014·9	015·2	015·3	013·0
3	017·6	017·5	017·8	017·7	017·6	017·8	018·4	018·5	018·7	018·4	018·5	018·3	017·5
4	018·6	018·2	017·9	018·1	018·0	017·1	017·5	018·0	018·0	017·5	017·7	016·9	018·0
5	013·7	013·1	011·9	011·6	011·3	011·2	010·9	012·1	011·9	011·5	011·4	011·4	013·8
6	010·2	010·2	010·0	009·9	009·8	009·9	010·2	010·6	010·9	011·0	010·9	010·8	010·4
7	009·6	009·2	008·8	008·4	008·0	007·7	007·7	007·6	007·4	006·9	006·4	005·9	009·4
8	996·3	996·7	996·9	997·2	998·1	999·1	000·1	001·1	001·5	001·8	002·1	003·0	999·3
9	012·3	012·7	013·2	013·4	013·8	014·4	015·1	015·7	016·2	016·6	017·0	017·1	011·1
10	014·8	014·6	014·2	013·9	014·0	014·2	014·5	015·8	015·8	016·5	017·5	018·5	015·7
11	025·2	025·2	025·0	024·8	024·8	024·9	025·1	025·4	025·5	025·4	025·2	025·1	023·9
12	019·3	018·9	018·5	018·2	017·8	017·3	017·1	017·5	017·3	017·1	016·9	016·4	020·4
13	012·1	011·5	011·0	010·5	010·1	009·6	009·5	009·3	009·1	008·6	008·1	007·5	012·3
14	999·1	998·4	998·1	998·0	998·4	998·4	998·6	998·8	998·9	998·9	998·8	998·5	000·9
15	998·1	998·2	998·3	998·3	998·4	998·7	998·9	999·3	999·5	999·3	998·9	998·3	998·4
16	997·9	998·2	998·5	998·6	998·9	999·3	999·7	000·7	001·1	001·4	001·5	001·6	998·8
17	006·9	007·0	007·3	007·7	008·0	008·2	008·9	009·2	009·7	009·9	009·9	009·9	006·0
18	010·2	010·1	009 8	009 7	009·6	009·3	009·4	009·3	009·2	008·9	007·9	007·4	009·5
19	997·9	997·4	996·6	996·2	995·6	994·9	994·5	994·8	994·8	995·5	996·1	996·7	999·2
20	993·6	992·7	992·0	991·3	990·9	991·3	991·7	992·9	993·9	994·5	995·1	995·6	**994·8**
21	004·9	005·4	005·9	006·1	006·6	007·3	007·9	008·2	008·7	008·8	008·8	008·8	003·3
22	008·4	007·9	007·8	007·7	007·5	007·4	007·4	007·7	007·7	007·8	007·8	007·9	008·3
23	009·0	008·9	008·8	008·5	008·6	008·5	008·5	009·0	009·0	008·6	008·6	008·2	008·4
24	002·8	002·4	001·8	001·5	001·6	001·5	001·6	001·7	001·7	002·0	002·2	002·4	004·0
25	013·5	014·3	015·2	016·1	017·2	018·3	019·5	020·9	021·6	021·9	022·5	023·5	012·5
26	027·5	027·4	027·2	027·1	026·9	027·1	027·5	028·0	028·3	028·7	028·8	028·9	026·8
27	027·4	027·0	026·7	026·2	026·1	026·2	026·4	026·4	026·2	026·1	026·2	025·9	**027·5**
28	022·8	022·3	021·8	021·2	020·8	020·6	020·7	020·8	020·7	020·6	020·4	020·6	023·0
29	017·3	017·0	016·9	017·0	016·8	016·8	016·8	016·7	016·9	016·8	016·6	016·5	017·9
30	014·9	014·9	014·7	014·3	014·1	014·3	014·6	014·9	014·9	014·7	014·8	014·7	015·1
31	015·6	015·4	015·2	015·0	014·6	014·7	015·1	015·6	016·1	016·2	016·2	015·9	015·1
Mean (Station level)	1011 ·00	1010 ·84	1010 ·67	**1010 ·56**	1010 ·57	1010 ·65	1010 ·93	1011 ·37	1011 ·54	1011 ·57	**1011 ·62**	1011 ·60	1011 ·14
Mean (Sea level)	1012 ·23	1012 ·07	1011 ·90	**1011 ·79**	1011 ·80	1011 ·89	1012 ·17	1012 ·61	1012 ·79	1012 ·82	**1012 ·87**	1012 ·86	1012 ·38
Hour. G.M.T.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means

Readings in millibars at exact hours, Greenwich Mean Time.

449. Richmond (Kew Observatory) : H_b (height of barometer cistern above M.S.L.) = 10·4 metres. September, 1931.

Hour. G.M.T. / Day. (Station Level)	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	015·8	015·8	015·6	015·4	015·4	015·5	015·5	015·5	015·2	014·9	014·6	013·7	013·7	013·3	012·6	012·5	011·9	011·6	011·1	010·8	010·3	009·5	008·7	008·1	013·4
2	007·3	006·8	006·2	005·9	006·0	005·6	005·1	005·0	004·4	003·2	002·0	001·3	000·1	998·8	999·0	000·1	004·4	000·8	001·4	001·8	002·2	002·4	002·1	001·8	003·0
3	001·3	001·3	000·8	000·5	999·8	999·4	999·2	999·2	998·8	998·4	997·6	997·8	997·8	997·5	997·5	997·4	997·3	997·3	997·3	997·5	997·5	997·3	996·7	995·8	998·5
4	995·3	994·9	994·2	994·2	994·0	994·0	993·8	993·5	993·4	993·5	993·2	993·2	993·1	993·1	993·1	992·9	993·0	993·0	993·3	993·7	993·9	994·3	994·7	995·2	**993·8**
5	995·4	995·9	996·4	997·0	997·6	998·2	998·3	998·9	999·7	000·3	001·3	001·9	002·9	003·9	005·1	006·0	007·2	008·5	009·7	010·7	011·6	012·2	012·3	013·1	003·1
6	013·7	014·0	014·5	015·0	015·7	016·4	017·0	017·4	017·9	018·3	018·4	018·4	018·5	018·2	018·4	018·4	018·4	018·5	018·5	018·9	019·1	019·2	019·1	019·2	017·4
7	019·0	018·8	018·7	018·6	018·6	018·8	019·1	019·3	019·3	019·4	019·2	019·1	019·2	019·4	019·3	019·2	019·3	019·6	020·2	020·5	020·7	020·9	021·1	021·2	019·5
8	021·0	021·0	020·7	020·6	020·7	021·0	021·3	021·0	021·0	020·7	020·0	019·6	019·3	018·7	018·3	017·9	017·7	017·7	017·9	018·1	018·1	018·2	018·2	018·1	019·5
9	018·0	018·1	018·0	017·8	017·8	018·0	018·0	018·1	018·2	018·0	017·9	017·7	017·4	017·2	016·8	016·6	016·6	016·7	017·0	017·3	017·5	017·7	017·8	017·8	017·6
10	017·7	017·5	017·5	017·4	017·6	018·1	018·5	018·9	019·5	019·6	019·7	019·4	019·2	019·0	018·9	019·0	018·8	019·0	019·7	020·2	020·4	020·5	020·7	020·8	019·0
11	020·7	020·5	020·3	020·3	020·4	020·7	021·2	021·5	021·7	021·7	021·2	021·1	021·1	021·0	020·6	020·3	020·0	019·9	020·2	020·2	020·0	019·9	019·7	019·1	020·6
12	018·8	018·4	017·5	016·6	016·3	016·1	016·1	015·9	015·9	015·6	015·2	014·4	013·7	012·6	012·1	012·3	012·9	014·1	015·4	016·8	017·7	018·7	020·0	020·9	016·0
13	021·2	022·1	022·6	023·1	023·7	024·4	025·1	025·6	026·1	026·0	025·9	025·9	025·8	025·9	025·9	026·0	026·1	026·3	026·7	027·2	027·3	027·4	027·6	027·6	025·3
14	027·8	027·8	027·9	027·8	027·6	027·9	028·4	028·5	028·7	028·9	028·8	028·7	028·3	028·3	028·1	028·0	028·0	027·9	028·3	028·6	028·7	028·7	028·7	028·7	028·3
15	028·6	028·5	028·2	028·1	028·3	028·7	029·2	029·6	029·9	029·8	029·7	029·6	029·4	029·2	029·0	028·8	028·5	028·3	028·4	028·4	028·4	028·8	028·8	028·8	028·9
16	028·8	028·5	028·3	028·0	027·9	027·9	027·8	028·0	027·9	027·7	027·0	026·4	025·8	025·4	024·7	024·2	023·9	023·6	023·8	023·8	023·6	023·5	023·2	022·9	026·1
17	022·4	022·1	021·4	020·9	020·6	020·5	020·7	020·8	020·6	020·4	020·2	019·8	019·5	019·4	019·2	019·2	019·1	019·3	019·6	019·9	020·2	020·4	020·6	020·7	020·4
18	020·8	020·6	020·7	020·8	021·0	021·5	022·0	022·6	023·2	023·5	023·5	023·4	023·5	023·3	023·2	023·2	023·3	023·7	024·2	024·5	024·7	024·9	025·0	025·3	022·9
19	025·3	025·1	025·1	025·3	025·4	025·5	025·8	026·4	026·7	026·9	026·9	026·8	026·7	026·5	026·5	026·6	026·8	027·1	027·5	027·9	028·3	028·8	029·3	029·8	026·7
20	030·3	030·6	031·1	031·3	031·4	031·8	032·5	033·1	033·3	033·5	033·3	033·0	032·7	032·2	031·9	031·8	031·5	031·4	031·1	031·1	031·1	031·3	031·2	030·9	031·8
21	030·5	030·3	030·2	030·0	029·9	029·9	030·0	030·0	030·1	030·0	029·6	029·3	029·0	029·1	028·8	028·5	028·3	028·5	028·8	028·9	028·9	028·8	028·7	028·7	029·4
22	028·4	028·4	028·0	027·8	027·8	028·3	028·2	028·3	028·7	028·6	028·3	028·1	027·7	027·2	026·9	026·6	026·5	026·4	026·6	026·5	026·2	026·0	025·5	025·0	027·4
23	024·6	023·9	023·4	023·0	023·1	023·5	024·0	024·3	024·8	025·0	024·9	024·7	024·8	024·6	024·6	025·0	025·0	025·3	025·7	026·5	027·1	027·4	027·6	027·8	025·0
24	028·0	028·0	028·1	028·2	028·4	028·7	029·0	029·5	029·7	029·9	030·1	030·0	030·0	030·1	030·0	030·1	030·4	030·8	031·5	031·8	032·1	032·5	032·8	033·0	030·0
25	033·1	033·1	033·1	033·3	033·7	034·0	034·6	035·1	035·5	035·6	035·5	035·6	035·4	035·2	034·9	034·7	034·8	035·1	035·3	035·5	035·4	035·6	035·7	035·4	**034·7**
26	035·3	035·2	035·1	034·8	034·5	034·6	034·8	035·0	035·1	035·2	035·2	034·8	035·6	034·3	034·0	033·7	033·6	033·5	033·8	033·9	034·0	033·9	033·8	033·6	034·5
27	033·3	032·7	032·5	031·9	031·8	031·8	031·6	031·6	031·6	031·2	030·4	030·0	029·1	028·1	027·5	027·1	026·7	026·3	025·8	025·4	025·0	024·6	024·2	023·8	029·1
28	023·4	022·9	022·8	022·3	022·0	021·8	021·9	022·0	022·0	022·0	021·5	021·4	020·7	019·5	020·2	020·1	020·0	020·1	020·4	020·5	020·7	020·6	020·6	020·6	021·3
29	020·5	020·3	020·1	020·1	020·0	020·0	020·2	020·1	020·0	019·8	019·6	018·8	018·5	018·0	017·3	017·2	017·3	017·4	017·3	017·0	016·7	015·9	015 4	015 0	018·6
30	014·6	014·0	013·4	012·8	012·4	012·1	011·7	011·4	011·1	011·0	010·1	009·7	009·3	009·0	008·7	008·4	008·5	008·5	008·7	008·8	008·9	009·0	009·2	009·2	010·6
Mean (Station level)	1020 ·70	1020 ·57	1020 ·41	1020 ·29	1020 ·31	1020 ·49	1020 ·69	1020 ·87	**1021 ·00**	1020 ·95	1020 ·69	1020 ·45	1020 ·23	1019 ·93	1019 ·77	**1019 ·73**	**1019 ·73**	1019 ·87	1020 ·17	1020 ·42	1020 ·54	1020 ·63	1020 ·63	1020 ·59	1020 ·41
Mean (Sea level)	1021 ·98	1021 ·85	1021 ·69	1021 ·57	1021 ·59	1021 ·77	1021 ·97	1022 ·15	**1022 ·27**	1022 ·22	1021 ·96	1021 ·71	1021 ·49	1021 ·19	1021 ·03	**1020 ·99**	**1020 ·99**	1021 ·14	1021 ·44	1021 ·69	1021 ·82	1021 ·91	1021 ·91	1021 ·87	1021 ·68

450. Richmond (Kew Observatory) : H_b = 10·4 metres. October, 1931.

Day. (Station Level)	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	009·3	009·2	009·5	009·9	010·2	010·7	011·3	011·9	012·7	012·9	012·8	012·9	012·9	013·1	013·3	013·4	013·6	014·1	014·5	015·1	015·5	015·6	015·5	015·5	012·6
2	015·3	015·4	015·3	015·0	015·0	015·3	015·6	016·0	016·3	016·3	016·1	016·1	016·4	016·2	015·9	016·1	016·4	017·3	017·8	018·7	019·4	020·2	021·1	021·2	016·7
3	021·5	021·9	022·1	022·9	023·2	024·0	024·7	025·4	025·8	026·3	026·4	026·5	026·8	026·6	026·8	027·0	027·4	027·9	028·3	028·5	028·5	028·6	028·6	028·5	025·9
4	028·3	028·1	027·6	027·5	027·3	027·2	027·1	027·1	027·2	027·0	026·6	026·4	025·9	025·4	025·1	024·4	024·4	024·6	024·7	024·8	024·7	024·5	024·0	023·9	026·1
5	023·7	023·3	023·2	023·1	023·1	023·1	023·2	023·4	023·3	023·1	022·8	022·6	022·2	021·5	021·1	020·5	020·2	020·2	019·9	019·4	019·0	018·4	017·8	017·1	021·6
6	016·2	015·1	014·1	013·6	013·0	012·4	011·7	011·5	011·0	010·8	010·0	009·4	008·6	008·8	008·5	008·1	008·1	008·0	007·7	007·0	006·3	005·8	005·0	003·8	010·1
7	002·8	001·9	001·2	001·2	001·9	002·3	003·4	004·3	005·3	006·1	006·5	007·0	007·3	007·7	008·2	008·8	009·7	010·7	011·6	012·2	012·7	013·2	013·8	014·2	007·0
8	014·7	015·1	015·5	015·9	016·5	017·0	017·5	018·0	018·2	018·7	019·1	019·4	019·3	019·2	019·3	019·5	019·7	020·4	020·8	021·3	021·5	021·4	021·4	021·5	018·6
9	021·4	020·9	020·6	020·3	020·3	020·1	019·8	020·0	020·1	019·9	019·4	019·1	018·8	018·3	018·0	017·8	017·7	018·1	018·3	018·6	018·6	018·6	018·8	018·7	019·3
10	018·7	018·9	019·2	019·4	020·0	020·4	021·1	022·2	022·3	022·8	023·1	023·3	023·3	023·3	023·7	023·7	024·0	024·2	024·6	024·8	024·8	024·9	025·0	024·8	022·5
11	024·8	024·9	024·9	025·0	025·0	025·4	025·3	025·7	025·8	025·6	025·5	025·2	025·0	024·7	024·4	024·1	023·9	024·0	024·0	024·2	024·1	024·1	023·8	023·5	024·7
12	023·2	022·6	022·2	021·8	021·6	021·4	021·3	021·3	021·2	020·8	020·3	019·4	018·5	017·9	017·3	016·8	016·5	016·5	016·4	016·3	016·2	016·3	016·1	015·9	019·2
13	016·0	016·2	016·1	016·5	016·7	017·2	017·8	018·7	019·1	019·8	020·1	020·5	021·2	022·1	022·9	023·5	024·3	025·3	026·6	026·8	027·4	028·2	028·5	029·0	021·4
14	029·3	029·7	029·8	030·4	030·9	031·5	032·2	032·6	033·0	033·1	033·2	033·3	033·5	033·7	033·8	033·8	034·2	034·9	035·1	035·3	035·7	036·0	036·2	036·4	033·1
15	036·4	036·2	035·9	036·1	036·2	036·5	036·8	037·3	037·7	037·4	037·2	036·8	036·3	035·6	035·1	034·8	035·0	035·0	034·9	034·8	034·6	034·6	034·1	033·7	**035·8**
16	033·8	033·5	033·0	032·8	032·7	032·5	032·6	032·7	032·5	032·6	032·3	031·7	031·2	030·7	030·1	030·0	030·1	030·2	029·7	029·8	029·7	029·7	029·3	029·2	031·4
17	029·0	028·6	028·3	028·3	028·0	027·9	028·1	028·3	028·3	028·3	028·3	028·2	027·8	027·5	027·4	027·3	027·5	027·6	027·9	028·1	028·4	028·7	028·5	028·5	028·1
18	028·4	028·3	028·2	028·3	028·4	028·6	029·0	029·4	029·5	029·5	029·6	029·3	029·2	029·0	028·9	028·7	029·0	029·2	029·2	029·1	029·2	028·8	028·6	028·5	028·9
19	028·5	028·5	028·0	027·6	027·5	027·4	027·3	027·1	027·1	026·9	026·4	025·6	025·0	024·5	024·1	023·5	023·3	023·1	022·8	022·5	022·2	021·8	020·9	020·2	025·2
20	019·4	018·6	017·9	017·2	017·0	017·1	017·0	016·8	016·7	016·4	016·2	016·3	017·3	017·9	018·7	019·5	020·4	020·9	021·2	021·9	022·0	022·4	022·6	022·7	018·9
21	022·7	022·7	022·2	022·3	022·8	023·1	022·9	023·1	023·3	023·3	022·9	022·1	021·5	021·2	020·8	020·8	021·0	021·1	021·0	021·2	021·3	021·3	021·1	020·9	022·0
22	020·7	020·2	019·9	019·6	019·4	019·1	019·1	018·6	018·5	018·0	017·1	016·2	015·2	014·4	013·4	012·7	012·2	011·7	011·2	010·8	009·8	009·1	008·6	008·1	015·4
23	007·2	006·5	005·7	005·0	004·5	003·7	003·4	003·3	003·0	002·4	001·6	000·5	999·5	998·8	997·9	997·4	996·9	996·7	995·9	995·7	995·0	994·2	994·0	993·7	000·4
24	993·3	993·0	992·9	993·0	993·3	993·4	994·2	994·9	995·5	996·4	997·2	997·7	998·1	998·8	999·8	000·8	002·1	003·4	004·4	005·3	006·1	006·8	007·4	007·9	**998·7**
25	008·1	008·4	008·6	009·0	009·5	009·6	010·2	010·7	011·3	011·5	011·7	011·6	011·6	012·0	012·8	013·6	014·5	015·5	016·4	017·2	018·3	018·7	019·3	020·0	012·7
26	020·5	021·0	021·2	021·8	022·0	022·6	023·4	023·9	024·6	024·8	024·8	024·6	024·4	024·4	024·5	024·7	025·0	025·7	025·8	026·1	026·3	026·5	026·7	026·6	024·1
27	026·4	026·3	026·2	026·0	026·0	026·1	026·2	026·4	026·2	025·0	025·7	024·8	024·0	023·2	022·7	022·4	022·3	022·3	022·2	022·2	022·1	021·9	021·3	020·8	024·3
28	020·1	019·4	018·6	017·9	017·4	016·8	016·3	016·0	015·2	014·5	013·7	013·0	013·2	013·3	013·4	014·0	015·0	015·9	016·5	017·2	017·7	018·1	018·2	018·4	016·3
29	018·6	018·5	018·6	018·9	018·9	019·4	019·8	020·0	020·3	020·6	020·6	020·3	020·0	019·7	019·3	018·9	018·6	018·1	016·9	015·6	015·0	013·9	012·9	011·8	018·3
30	011·1	010·5	010·3	010·1	010·6	012·4	014·4	016·3	017·6	018·8	020·1	021·0	021·6	022·5	023·3	024·3	025·0	026·0	026·7	027·3	028·2	028·5	028·7	029·0	019·8
31	029·1	029·3	029·1	029·2	029·4	029·1	029·5	029·7	029·4	029·4	029·0	028·5	028·1	028·0	027·9	027·9	028·0	028·2	028·3	028·2	028·3	028·3	028·2	028·4	028·7
Mean (Station level)	1019 ·95	1019 ·77	1019 ·55	**1019 ·53**	1019 ·62	1019 ·78	1020 ·07	1020 ·41	1020 ·58	1020 ·65	1020 ·53	1020 ·30	1020 ·12	1020 ·00	1019 ·95	1019 ·96	1020 ·19	1020 ·54	1020 ·69	1020 ·84	1020 ·92	**1020 ·95**	1020 ·84	1020 ·72	1020 ·26
Mean (Sea level)	1021 ·24	1021 ·06	1020 ·84	**1020 ·83**	1020 ·92	1021 ·08	1021 ·37	1021 ·70	1021 ·87	1021 ·93	1021 ·80	1021 ·57	1021 ·39	1021 ·27	1021 ·22	1021 ·23	1021 ·47	1021 ·82	1021 ·97	1022 ·12	1022 ·21	**1022 ·23**	1022 ·13	1022 ·01	1021 ·54
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

Readings in millibars at exact hours, Greenwich Mean Time.

451. Richmond (Kew Observatory): H_b (height of barometer cistern above M.S.L.) = 10·4 metres. November, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day. (Station Level)	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	028·2	028·0	028·0	028·1	028·3	028·1	028·3	028·6	028·5	028·3	027·8	027·2	026·6	026·4	026·0	025·9	026·1	026·1	026·2	025·8	025·5	025·3	024·7	024·5	**027·0**
2	024·1	023·9	023·5	022·9	022·3	021·9	021·8	021·4	021·0	020·5	019·6	019·2	018·6	018·3	018·0	018·0	018·3	018·2	017·8	017·4	017·2	016·5	015·5	015·3	019·8
3	014·4	013·8	013·1	012·4	011·7	011·4	010·7	010·3	010·1	009·8	008·9	007·9	007·1	006·3	005·6	004·9	004·8	004·4	004·4	004·1	003·9	003·9	003·0	002·4	008·2
4	001·7	001·3	001·0	000·5	000·1	999·4	999·0	998·6	998·4	998·3	998·8	999·4	000·8	001·5	002·6	003·4	004·5	005·3	006·2	006·7	007·2	007·6	008·2	008·4	002·3
5	008·5	008·5	008·7	008·8	009·1	009·0	009·6	009·8	009·8	009·8	009·9	009·2	008·7	008·3	008·3	008·1	008·2	008·6	008·5	008·1	007·9	007·6	007·5	007·2	008·7
6	006·8	006·3	005·8	005·3	005·3	005·1	005·0	004·9	004·8	004·4	003·7	002·5	001·8	001·2	001·2	001·0	001·0	000·9	000·9	000·5	000·0	999·7	999·2	999·0	002·9
7	998·3	997·9	997·7	997·7	998·1	998·1	998·0	998·0	998·0	998·0	997·7	997·0	996·4	996·0	995·5	995·4	995·1	994·6	993·9	992·9	992·0	991·4	990·9	990·9	996·0
8	990·4	990·4	990·0	989·8	989·8	990·0	990·3	990·7	991·0	991·2	991·2	991·2	991·2	991·3	991·9	991·4	993·0	993·5	993·7	993·7	994·2	994·5	994·5	994·2	991·7
9	993·9	993·7	993·5	993·0	992·8	992·2	991·3	990·7	989·8	988·5	987·4	985·9	984·1	982·2	980·2	979·5	979·7	979·7	979·8	979·9	980·3	980·3	980·3	980·1	986·1
10	980·0	980·0	979·9	979·6	979·7	979·7	979·8	980·0	980·0	980·2	980·1	979·7	979·5	979·4	978·7	978·5	978·5	978·2	977·8	977·4	977·1	976·8	976·2	976·3	**979·0**
11	975·8	975·3	975·7	976·0	976·4	976·8	977·2	978·1	978·9	979·6	979·9	980·0	980·3	980·8	981·4	981·8	982·1	982·5	983·1	983·5	984·0	984·7	985·2	985·6	980·0
12	986·4	987·1	987·8	988·4	989·3	990·1	991·1	992·3	993·5	994·7	995·6	996·3	997·0	998·0	998·9	999·9	000·8	001·9	003·0	004·0	005·1	005·8	006·7	007·4	996·3
13	007·9	008·6	009·1	009·5	009·9	010·4	011·2	012·3	012·5	012·5	012·7	012·5	012·2	012·0	012·0	012·0	011·9	011·9	012·1	011·9	011·8	011·6	011·4	011·3	011·2
14	010·7	010·4	010·2	009·6	009·0	008·5	007·9	007·6	007·1	006·9	007·3	007·0	006·5	005·8	005·5	005·0	005·1	005·1	005·1	004·9	004·9	005·3	005·6	006·2	007·1
15	006·8	007·7	008·3	009·0	009·6	010·3	011·2	012·4	013·5	014·4	015·2	015·8	016·5	016·8	017·5	018·2	019·1	019·9	020·8	021·5	022·2	022·9	023·5	024·2	015·3
16	024·7	024·9	025·4	025·6	025·9	026·1	026·6	027·0	027·3	027·7	027·7	027·4	027·3	027·3	026·9	026·7	027·2	027·3	027·3	027·2	027·3	027·4	027·2	027·3	026·7
17	027·1	027·0	027·0	026·8	026·7	027·0	026·8	026·7	026·7	026·7	026·7	026·2	025·9	025·6	025·2	025·4	025·3	025·8	025·6	025·4	025·2	025·1	024·6	024·6	026·1
18	023·6	023·6	023·0	022·7	022·2	021·7	021·0	021·0	020·7	020·5	020·0	019·3	018·8	017·8	017·8	017·8	017·2	016·5	016·0	015·3	014·8	014·1	013·5	012·7	019·1
19	011·8	011·1	010·8	010·6	010·8	010·8	011·1	011·4	011·7	012·0	011·9	011·7	011·5	011·3	011·1	010·9	010·9	011·3	011·2	011·0	010·8	010·6	010·4	010·1	011·2
20	009·5	009·4	009·3	009·3	008·9	008·7	008·9	008·9	009·0	009·1	008·8	008·7	008·6	008·6	008·7	008·8	009·0	009·2	009·5	009·6	010·0	010·3	010·4	011·2	009·2
21	011·5	012·1	013·1	013·7	014·2	014·9	015·6	016·7	017·5	018·5	019·2	019·4	019·7	020·2	020·6	021·2	022·0	022·9	023·1	024·0	024·1	024·1	025·1	025·3	018·8
22	025·6	026·1	026·1	026·1	026·6	027·0	027·5	028·1	028·6	028·5	028·5	028·1	027·7	027·4	026·6	026·4	026·1	025·7	025·3	024·5	023·8	022·8	022·0	021·2	026·2
23	020·6	019·5	019·0	017·5	017·2	016·4	016·0	015·5	014·5	014·6	013·3	012·2	011·5	011·0	010·3	009·6	009·2	007·9	007·3	006·9	006·1	005·5	004·1	002·9	012·4
24	002·0	001·5	001·1	000·8	001·1	001·8	003·6	005·0	006·2	007·5	008·6	009·1	009·8	009·8	010·9	011·5	012·0	012·8	013·1	013·4	013·6	013·8	013·8	014·1	008·0
25	014·3	014·5	014·2	014·1	014·3	014·2	014·1	014·6	015·1	015·3	014·7	013·9	013·3	012·7	012·1	011·7	011·2	010·4	009·5	009·1	008·2	007·7	007·0	006·3	012·3
26	005·7	005·2	004·7	004·0	003·4	003·4	003·3	003·0	002·7	002·5	001·9	001·0	000·0	998·5	997·6	996·7	995·1	993·9	992·5	994·6	995·7	996·5	997·0	997·1	000·0
27	997·7	998·7	999·5	000·4	001·3	002·3	002·8	003·2	003·7	003·9	004·4	003·8	003·5	003·1	002·9	002·5	002·6	002·2	002·5	002·4	002·4	002·4	002·1	001·7	002·1
28	001·8	001·8	002·0	002·3	002·7	003·1	003·7	004·7	005·9	007·0	007·9	008·6	008·9	009·9	010·9	012·2	013·0	014·0	014·8	015·1	015·8	015·9	016·8	017·4	008·7
29	017·6	017·5	017·7	018·5	018·7	019·2	019·5	019·8	020·3	020·7	021·0	020·8	020·9	021·0	021·3	021·6	022·1	022·6	022·9	023·1	023·2	023·4	023·7	023·8	020·7
30	024·0	023·9	024·0	024·1	024·2	024·6	025·1	025·3	025·9	026·1	026·1	025·9	025·8	025·8	025·8	026·1	026·6	026·9	027·0	027·2	027·3	027·5	027·6	027·7	025·8
Mean (Station level)	1008·38	1008·32	1008·31	**1008·24**	1008·32	1008·41	1008·60	1008·89	1009·09	**1009·26**	1009·22	1008·90	1008·68	1008·48	1008·40	1008·40	1008·59	1008·67	1008·70	1008·70	1008·72	1008·70	1008·59	1008·55	1008·63
Mean (Sea level)	1009·66	1009·60	1009·59	**1009·52**	1009·60	1009·69	1009·88	1010·17	1010·37	**1010·53**	1010·49	1010·17	1009·95	1009·75	1009·67	1009·67	1009·86	1009·95	1009·97	1009·98	1010·00	1009·98	1009·87	1009·83	1009·91

452. Richmond (Kew Observatory): H_b = 10·4 metres. December, 1931.

Day (Station Level)	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	027·7	027·7	027·7	027·7	027·8	027·9	028·2	028·7	028·5	028·9	029·4	029·5	028·8	028·8	028·8	028·8	029·1	029·4	029·8	029·5	029·5	029·5	029·6	029·7	028·7
2	029·2	029·1	028·8	028·7	028·4	028·3	028·4	028·6	028·7	028·4	028·0	027·0	026·3	025·5	025·3	025·3	025·1	024·5	024·0	023·5	023·6	022·7	021·7	021·1	026·4
3	020·6	018·7	017·1	015·7	014·8	013·0	011·9	010·4	008·5	007·3	005·8	003·6	002·4	002·0	001·7	002·3	003·2	003·3	003·8	004·0	004·6	004·3	004·3	004·6	008·2
4	003·9	003·3	001·8	001·0	000·6	000·5	001·3	002·0	002·7	003·6	003·9	004·0	003·1	002·2	002·1	002·4	003·3	003·9	004·9	006·0	006·9	007·5	009·2	011·0	003·7
5	012·7	014·6	015·8	016·0	016·9	017·5	018·1	018·5	018·8	018·6	018·2	017·1	016·8	014·1	012·4	010·4	008·4	006·2	004·7	003·4	002·4	001·7	001·8	001·6	012·1
6	002·0	003·2	004·2	004·9	005·9	006·2	006·6	007·2	008·0	008·4	008·5	008·4	008·0	007·4	007·2	007·5	007·7	008·1	008·8	009·5	010·3	011·2	012·1	013·1	007·4
7	013·6	015·3	016·2	017·2	018·3	019·3	020·2	021·3	022·3	023·0	023·8	023·9	024·6	024·2	024·7	025·6	026·2	026·8	027·1	027·1	027·3	027·3	027·2	027·4	022·6
8	027·2	026·8	026·7	026·1	025·8	025·7	025·5	025·3	025·4	025·4	025·2	024·3	023·7	023·0	022·6	022·6	022·3	022·3	022·4	022·5	022·9	023·0	023·3	023·5	024·4
9	023·7	024·4	024·6	024·6	025·0	025·2	025·7	025·6	025·9	026·2	026·4	026·1	026·0	025·7	025·6	025·9	026·1	026·4	026·6	026·8	026·7	026·9	026·6	027·0	025·7
10	026·8	026·8	027·0	026·9	026·6	026·6	026·3	026·2	026·1	026·2	025·8	025·4	025·2	025·3	025·6	026·3	026·3	026·6	027·0	027·2	027·8	028·1	028·6	028·7	026·6
11	028·8	029·1	029·2	029·2	029·4	029·8	030·4	030·8	031·5	032·0	032·2	032·1	032·1	032·3	032·6	032·7	032·9	033·4	033·6	033·8	033·9	034·1	034·0	034·0	031·7
12	033·8	034·2	034·3	034·4	034·3	034·5	034·5	034·7	035·1	035·5	035·5	035·2	034·9	034·5	034·6	034·7	035·0	034·9	035·1	035·5	035·7	035·8	035·8	036·0	034·9
13	035·9	035·8	035·9	035·8	035·7	035·7	035·8	035·4	035·7	035·9	035·8	035·3	034·9	034·4	034·1	033·6	033·6	033·6	033·4	033·1	032·9	032·5	031·8	031·2	034·6
14	030·7	030·3	030·0	029·4	029·3	028·9	028·8	028·7	028·7	029·0	028·6	028·0	027·4	026·7	026·2	026·0	025·7	025·4	025·2	025·0	024·7	024·4	024·1	023·8	027·4
15	023·2	022·8	022·3	022·0	022·0	021·7	021·6	021·7	022·0	022·3	022·1	022·0	021·8	022·0	022·3	022·4	022·8	023·2	023·8	024·3	024·7	025·0	025·5	025·8	022·8
16	026·1	026·8	027·2	027·2	027·7	028·1	028·5	029·0	029·9	030·7	030·7	030·7	030·6	030·5	030·7	031·2	031·6	031·8	032·2	032·5	032·9	033·4	033·5	033·8	030·1
17	033·8	034·0	034·0	033·8	034·1	034·1	034·1	034·7	035·1	035·4	035·4	035·1	034·7	034·9	034·9	035·2	035·4	035·4	035·5	035·5	035·6	035·8	036·0	036·2	034·9
18	036·0	036·1	036·2	036·4	036·4	036·6	036·7	037·4	038·0	038·1	038·1	038·0	037·9	037·9	038·1	038·2	038·4	038·3	038·4	038·4	038·8	038·9	039·0	038·9	037·7
19	039·2	039·4	039·5	039·2	038·9	039·0	039·0	038·9	038·9	039·0	038·7	038·5	037·6	037·8	037·6	037·7	037·8	038·1	038·2	038·2	038·5	038·5	038·6	038·4	038·6
20	038·3	038·3	038·1	037·8	037·3	037·2	037·1	037·2	036·8	036·9	036·6	036·0	035·5	035·4	035·3	035·1	035·0	034·9	034·9	034·9	034·9	034·8	034·8	034·7	036·2
21	034·5	034·6	034·8	034·8	034·9	034·9	035·2	035·5	036·4	036·6	036·6	036·4	036·0	035·8	036·0	036·2	036·1	036·2	036·4	036·7	037·0	037·0	037·2	037·3	035·9
22	037·2	037·3	037·4	037·5	037·8	037·8	038·4	038·8	039·3	039·6	039·5	039·4	039·0	039·0	039·0	039·5	039·7	040·1	040·3	040·5	040·7	040·5	040·7	040·6	039·1
23	040·6	040·7	040·6	040·5	040·5	040·9	040·8	040·6	040·8	041·1	041·5	041·3	040·9	040·5	040·5	040·5	040·3	040·4	040·5	040·2	040·1	040·3	040·0	039·4	**040·6**
24	039·0	038·3	038·0	037·4	037·0	036·6	036·7	036·8	036·9	037·1	036·9	036·3	035·8	035·4	035·2	035·1	035·0	034·8	034·7	034·8	034·6	034·5	034·4	034·1	036·2
25	033·8	033·6	033·4	033·1	032·9	033·1	033·0	033·1	033·3	033·5	033·4	032·9	032·2	031·7	031·6	031·4	031·4	031·6	031·8	031·6	031·3	031·3	031·0	030·5	032·4
26	030·5	029·9	030·0	029·6	029·3	028·9	028·7	028·5	028·3	028·4	027·5	026·8	025·8	025·0	024·8	024·7	024·6	024·5	024·4	024·4	024·2	024·1	023·8	023·4	026·8
27	023·2	022·8	022·6	021·9	021·5	021·2	020·9	020·8	020·8	021·0	020·9	020·0	019·0	018·5	018·1	017·8	017·4	017·1	016·6	016·1	015·5	015·0	014·1	013·4	019·2
28	012·3	011·7	010·7	009·9	009·2	007·9	007·1	006·6	006·1	005·3	003·7	002·6	002·1	001·2	001·4	001·4	000·5	999·7	999·1	998·6	998·3	997·9	997·8	997·2	004·0
29	996·4	995·5	994·5	993·9	993·1	992·9	992·7	993·0	993·2	993·9	994·3	994·4	994·7	994·7	994·7	994·8	994·9	995·4	996·3	997·1	998·0	998·7	999·5	000·1	**995·2**
30	000·9	001·5	002·4	003·1	003·8	004·6	005·5	006·7	007·5	008·3	008·8	009·0	009·1	009·4	009·6	010·3	011·0	011·6	012·1	012·5	012·9	013·6	014·0	014·4	008·1
31	014·6	015·1	015·6	015·9	016·0	016·4	016·9	017·6	018·1	018·9	019·1	019·0	018·7	019·1	019·8	020·5	020·9	021·3	021·4	021·9	022·0	022·1	022·1	021·9	018·8
Mean (Station level)	1025·04	1025·09	1025·05	1024·89	1024·88	1024·87	1024·99	1025·17	1025·40	**1025·63**	1025·51	1025·11	1024·70	1024·35	**1024·29**	1024·39	1024·44	1024·49	1024·61	1024·68	1024·81	1024·85	1024·91	1024·93	1024·88
Mean (Sea level)	1026·35	1026·40	1026·36	1026·20	1026·19	1026·18	1026·30	1026·48	1026·71	**1026·94**	1026·82	1026·41	1026·00	1025·65	**1025·59**	1025·69	1025·74	1025·79	1025·92	1025·99	1026·12	1026·16	1026·22	1026·24	1026·19
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 mb. is written 005·6. This rule does not, however, apply to monthly means.

PRESSURE AT STATION LEVEL AND AT SEA LEVEL.
ANNUAL MEANS FROM HOURLY VALUES.

From readings in millibars at exact hours, Greenwich Mean Time.

453. Richmond (Kew Observatory) : $H_b = 10{\cdot}4$ metres. **1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
Station Level.	013·97	013·86	013·73	013·64	013·67	013·77	013·94	014·11	014·20	**014·28**	014·22	014·01	013·82	013·64	013·55	**013·52**	013·60	013·73	013·91	014·10	014·22	014·25	014·22	014·17	013·92
Sea Level.	015·25	015·14	015·01	014·92	014·95	015·05	015·22	015·39	015·47	**015·55**	015·49	015·28	015·09	014·90	014·81	**014·78**	014·87	015·00	015·18	015·37	015·50	015·53	015·50	015·45	015·19

PRESSURE AT STATION LEVEL: MONTHLY MEANS AND DIURNAL INEQUALITIES.

The departures from the mean of the day are adjusted for non-cyclic change.

454. Richmond (Kew Observatory) : $H_b = 10{\cdot}4$ metres. **1931.**

Month	Mean.	Hour. 1.	G.M.T. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
Jan.	1011·70	−0·05	−0·02	−0·09	−0·29	−0·48	**−0·52**	−0·35	−0·08	+0·15	+0·32	+0·32	+0·01	−0·31	−0·37	−0·24	−0·07	+0·11	+0·29	+0·42	**+0·47**	+0·32	+0·23	+0·18	+0·05
Feb.	1010·81	+0·27	+0·05	−0·09	−0·24	−0·31	−0·41	−0·32	−0·15	−0·02	+0·18	+0·29	+0·08	−0·17	−0·33	**−0·48**	−0·45	−0·20	+0·09	+0·22	+0·34	+0·42	**+0·46**	+0·44	+0·35
Mar.	1012·98	+0·20	+0·00	−0·25	−0·38	−0·32	−0·28	−0·05	+0·29	+0·32	**+0·47**	**+0·47**	+0·29	−0·04	−0·40	−0·51	**−0·66**	−0·54	−0·24	+0·03	+0·23	+0·31	+0·37	+0·33	+0·27
April	1010·51	−0·01	−0·15	−0·31	−0·40	−0·32	−0·12	+0·08	+0·18	+0·25	+0·39	**+0·40**	+0·28	+0·16	−0·06	−0·35	**−0·43**	−0·36	−0·29	−0·05	+0·22	+0·29	+0·28	+0·22	+0·12
May	1010·62	+0·25	+0·11	−0·05	−0·17	−0·07	+0·11	+0·13	+0·15	+0·04	+0·05	−0·04	−0·17	−0·21	−0·21	−0·33	**−0·38**	−0·36	−0·36	−0·16	+0·16	+0·37	**+0·42**	+0·38	+0·36
June	1015·82	−0·03	−0·09	−0·15	−0·13	+0·01	+0·21	+0·35	+0·45	**+0·51**	+0·41	+0·32	+0·13	−0·01	−0·21	−0·26	−0·39	**−0·47**	−0·46	−0·39	−0·22	+0·03	+0·15	+0·12	+0·10
July	1008·99	+0·14	−0·03	−0·18	−0·24	−0·17	−0·06	+0·11	+0·17	+0·13	+0·11	+0·05	+0·01	−0·05	−0·11	−0·18	−0·24	−0·35	**−0·38**	−0·22	+0·06	+0·35	**+0·40**	+0·35	+0·31
Aug.	1011·14	+0·33	+0·20	+0·03	−0·05	−0·02	+0·13	+0·16	+0·21	+0·15	+0·15	+0·04	−0·09	−0·15	−0·31	−0·49	**−0·61**	**−0·61**	−0·52	−0·25	+0·18	+0·35	+0·37	**+0·41**	+0·39
Sept.	1020·41	+0·19	+0·07	−0·08	−0·19	−0·16	+0·03	+0·23	+0·42	**+0·56**	+0·53	+0·27	+0·04	−0·17	−0·46	−0·61	**−0·65**	−0·63	−0·48	−0·17	−00·9	+0·22	+0·31	+0·33	+0·30
Oct.	1020·26	−0·02	−0·23	−0·48	**−0·51**	−0·45	−0·32	−0·06	+0·25	+0·40	**+0·44**	+0·30	+0·04	−0·16	−0·31	−0·39	−0·40	−0·19	+0·13	+0·25	+0·38	+0·43	+0·43	+0·30	+0·16
Nov.	**1008·63**	−0·26	−0·32	−0·33	**−0·40**	−0·32	−0·23	−0·03	+0·25	+0·46	**+0·63**	+0·59	+0·27	+0·05	−0·15	−0·23	−0·22	−0·03	+0·05	+0·07	+0·08	+0·10	+0·08	−0·03	−0·07
Dec.	**1024·88**	+0·07	+0·13	+0·10	−0·05	−0·06	−0·06	+0·07	+0·26	+0·49	**+0·73**	+0·62	+0·22	−0·18	−0·51	**−0·57**	−0·46	−0·40	−0·35	−0·21	−0·14	+0·00	+0·05	+0·11	+0·14
Year	1013·92	+0·09	−0·02	−0·16	−0·25	−0·22	−0·13	−0·03	+0·20	+0·29	**+0·37**	+0·30	+0·09	−0·10	−0·29	−0·39	**−0·41**	−0·34	−0·21	−0·04	+0·14	+0·27	+0·30	+0·26	+0·21

ABSOLUTE EXTREMES OF PRESSURE AT STATION LEVEL FOR EACH DAY.

Maximum and Minimum for the interval 0h. to 24h., Greenwich Mean Time.

455. Richmond (Kew Observatory) : $H_b = 10{\cdot}4$ metres. **1931.**

Month	Jan.		Feb.		Mar.		April		May		June	
Day.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	994·1	987·2	014·0	997·2	011·0	**990·2**	020·6	006·1	013·9	007·0	011·8	006·7
2	000·1	994·1	016·1	013·0	012·6	010·9	006·1	997·8	007·0	001·9	018·5	011·8
3	996·3	992·0	022·5	012·1	011·4	007·9	009·9	997·7	001·9	**996·1**	019·3	017·5
4	014·6	996·2	026·2	022·2	016·7	008·0	014·8	009·9	007·2	**996·1**	018·9	015·0
5	023·1	014·6	026·8	018·8	017·1	011·1	013·3	006·4	014·7	007·2	015·9	008·1
6	030·4	023·1	018·8	012·1	011·1	004·3	010·1	004·3	014·8	010·8	008·6	006·3
7	032·8	030·0	015·2	012·6	006·6	003·0	010·8	008·5	015·6	010·6	008·4	003·1
8	**032·9**	028·8	014·6	011·6	009·1	006·5	015·9	010·8	020·1	014·7	011·1	003·6
9	028·9	025·0	014·0	011·1	006·9	003·5	015·8	020·1	**023·2**	020·1	010·9	008·7
10	028·7	026·5	020·1	003·8	005·2	002·4	**026·2**	019·9	022·8	018·3	011·9	009·8
11	027·5	012·4	020·5	995·0	010·7	004·8	026·0	019·0	019·6	016·5	015·7	010·4
12	012·4	002·8	000·7	996·8	010·1	008·5	019·2	014·0	020·6	019·0	020·4	015·1
13	013·9	002·9	005·8	994·9	008·5	002·2	024·9	017·1	019·4	011·1	022·1	012·9
14	019·7	013·8	015·1	005·8	009·1	001·5	024·1	023·1	013·1	011·7	012·9	**998·4**
15	019·0	015·0	013·7	002·0	012·4	009·1	023·8	014·8	012·7	002·4	018·5	005·2
16	016·5	999·1	002·0	**986·1**	012·2	010·3	021·2	015·1	003·4	998·2	018·0	011·8
17	010·4	999·9	004·6	988·2	012·6	010·4	015·5	999·5	998·7	996·2	011·9	007·4
18	015·0	010·3	009·4	004·6	010·7	008·1	003·3	997·5	005·4	998·0	013·4	008·0
19	014·3	010·3	016·5	008·6	010·7	007·9	007·4	001·6	013·0	005·3	011·3	004·4
20	021·2	013·7	016·0	006·6	008·3	004·3	011·1	006·9	016·0	013·0	022·8	011·3
21	022·0	014·4	015·5	004·8	011·9	003·8	012·9	011·0	015·8	009·1	023·6	021·3
22	014·4	008·4	019·3	015·5	012·4	011·4	012·4	008·6	011·6	007·4	021·6	016·9
23	008·5	**985·6**	023·4	018·9	021·2	012·2	009·2	004·7	011·6	007·9	018·7	014·2
24	002·1	988·8	**027·3**	024·7	028·7	021·2	004·7	994·6	018·0	005·1	024·3	014·2
25	011·6	002·0	024·8	017·0	031·7	028·4	994·6	**984·6**	021·7	018·0	029·3	024·3
26	022·0	008·7	017·1	009·7	**031·9**	029·5	995·8	990·4	021·5	017·3	**029·8**	028·1
27	022·7	009·2	016·8	994·3	029·9	021·8	010·8	995·8	017·5	007·6	029·0	025·5
28	009·2	003·7	994·3	988·7	026·9	020·5	014·7	010·7	008·9	002·6	025·9	021·5
29	003·7	999·3	—	—	028·4	024·7	017·9	013·9	009·0	005·9	024·1	022·2
30	019·3	999·7	—	—	024·8	021·8	017·7	013·9	008·1	006·2	024·6	020·1
31	020·5	998·9	—	—	022·8	020·4	—	—	007·8	005·7	—	—
Mean	1016·38	1006·98	1015·40	1006·31	1015·60	1010·66	1013·69	1007·28	1013·37	1007·97	1018·44	1012·79

Month	July		Aug.		Sept.		Oct.		Nov.		Dec.	
Day.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
1	**020·2**	013·9	012·4	010·2	015·9	008·1	015·6	009·1	028·6	024·5	029·8	027·6
2	014·1	008·4	015·3	011·7	008·1	998·5	021·2	014·9	024·5	015·1	029·7	021·1
3	009·7	004·1	018·9	015·3	001·8	995·8	028·9	021·2	015·3	002·4	021·4	001·3
4	009·7	004·1	019·2	016·9	995·8	**992·9**	028·5	023·8	008·4	998·0	011·0	000·2
5	009·7	008·2	017·3	010·7	013·1	995·2	023·9	017·1	010·1	007·2	019·0	001·6
6	009·1	006·5	011·5	009·7	019·2	013·1	017·1	003·8	007·2	998·9	013·1	001·6
7	007·3	004·5	011·1	005·9	021·2	018·5	014·2	001·0	999·0	990·8	027·4	013·0
8	008·0	005·6	005·9	995·2	021·4	017·6	021·6	014·2	994·6	989·7	027·5	021·1
9	010·5	007·8	017·1	003·0	018·2	016·6	021·6	017·6	994·2	979·2	027·1	023·4
10	014·2	010·2	018·5	013·8	020·8	017·3	025·1	018·6	980·4	976·1	028·7	025·0
11	016·4	014·1	025·6	018·5	021·8	019·1	025·8	023·9	985·6	**975·1**	034·3	028·7
12	014·6	004·4	025·1	016·4	020·9	012·1	023·5	015·8	007·4	985·6	036·1	033·7
13	007·2	005·7	016·4	007·4	027·7	020·9	029·0	015·7	012·8	007·4	036·0	031·3
14	006·6	993·1	007·5	998·0	028·9	027·5	036·4	028·9	011·3	004·7	031·3	023·8
15	008·0	**991·9**	999·5	997·4	029·9	028·1	**037·7**	033·6	024·2	006·2	025·8	021·5
16	015·0	008·0	001·6	997·6	028·9	022·9	033·8	029·1	027·8	024·2	033·8	025·8
17	015·1	007·1	010·0	001·6	022·9	019·1	029·2	027·2	027·3	024·4	036·4	033·5
18	009·8	006·2	010·3	007·3	025·3	020·6	029·6	028·1	024·7	012·7	039·1	035·9
19	009·3	004·0	007·6	994·4	029·8	025·0	028·6	020·2	012·1	010·1	039·5	037·5
20	017·1	006·6	997·3	**990·5**	033·6	029·8	022·8	016·1	011·2	008·4	038·5	034·6
21	020·1	017·0	008·9	995·6	030·9	028·3	023·4	020·7	025·3	011·1	037·4	034·4
22	019·9	016·5	009·3	007·3	028·8	025·0	020·9	008·0	**028·7**	021·2	040·7	037·1
23	016·6	012·6	009·1	007·4	027·8	022·9	008·1	993·5	021·3	002·9	**041·6**	039·4
24	012·6	003·0	008·2	001·4	033·0	027·7	007·9	**992·7**	014·1	000·7	039·4	034·1
25	003·0	995·2	023·5	002·4	**035·7**	033·0	020·0	007·9	015·5	006·3	034·1	030·5
26	001·8	996·6	**028·9**	023·5	035·4	033·4	026·7	020·0	006·3	992·1	030·6	023·3
27	008·3	997·5	**028·9**	025·9	033·7	023·8	026·6	020·7	004·4	996·9	023·4	013·4
28	016·8	008·3	025·9	020·3	023·8	019·9	020·8	012·8	017·4	001·6	013·4	997·2
29	017·1	011·8	020·7	016·4	020·6	015·0	020·7	011·8	023·8	017·4	000·1	**992·7**
30	011·8	007·9	016·6	014·0	015·0	008·2	029·0	010·1	027·7	023·7	014·4	000·1
31	011·0	009·9	016·3	014·1	—	—	029·8	027·8	—	—	022·2	014·4
Mean	1011·95	1006·15	1014·34	1008·06	1023·00	1017·86	1024·13	1016·32	1013·04	1003·82	1028·48	1021·25

	Max.	Min.
Year ...	1017·34	1010·49

NOTE.—When pressure exceeds 1000 mb. the leading figure 1 is not printed, *i.e.*, 1005·6 is written 005·6. This rule does not, however, apply to monthly means.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

456. Richmond (Kew Observatory) : North Wall Screen : h_t (height of thermometer bulb above the ground) = 3·0 metres.

January, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	75·1	74·8	74·1	74·1	73·5	72·9	72·7	72·9	72·8	73·0	73·0	73·9	74·7	75·1	76·6	76·1	76·0	75·6	74·9	74·0	72·5	72·7	72·8	72·2	74·1
2	72·4	72·9	72·1	72·2	72·8	72·5	73·5	74·0	74·6	75·4	76·1	77·0	77·6	77·8	77·4	76·4	75·4	75·0	74·7	75·0	75·7	75·9	77·0	76·9	74·9
3	76·0	75·4	75·6	75·7	75·5	75·5	76·0	75·6	76·0	76·3	76·5	76·9	77·1	76·9	76·9	76·5	76·2	76·1	76·0	76·1	76·2	76·1	75·2	75·0	76·1
4	75·0	74·4	74·1	74·2	74·1	74·1	74·1	74·4	74·6	75·0	75·8	76·2	77·0	76·8	76·9	76·1	76·0	76·0	75·9	74·9	74·2	73·9	74·0	73·7	75·1
5	73·3	73·0	72·4	72·2	72·1	71·7	72·1	73·0	72·9	73·0	73·4	74·1	75·4	75·9	76·8	76·0	74·5	75·0	74·0	73·5	72·7	71·4	71·5	70·8	73·4
6	71·1	71·2	71·9	72·0	72·0	71·9	71·5	71·1	71·1	71·0	71·1	71·9	73·4	76·0	76·5	75·9	75·0	74·1	72·4	72·5	71·6	71·2	71·1	70·4	**72·4**
7	70·6	70·5	70·2	70·5	71·1	71·6	71·8	72·0	72·2	72 7	74·0	75·2	76·0	77·1	76·2	75·9	75·0	74·3	73·9	73·3	73·2	73·1	73·5	73·5	73·2
8	73·4	73·0	72·9	72·9	72·9	73·0	73·0	72·9	72·9	73·0	73·1	73·5	73·9	73·8	73·5	73·0	72·0	72·0	71·9	71·3	71 3	71·1	70·7	71·0	72·6
9	70·7	71·0	71·3	71·6	71·8	72·0	72·4	72·5	72·9	73·3	74·1	75·5	76·5	77·0	77·0	76·0	75·1	74·6	74·0	73·0	73·0	72·7	71·9	71·9	73·4
10	71 5	71·1	71·0	72·0	72·2	72·2	72·2	72·6	72·7	73·0	73·1	73·6	74·1	74·4	74·7	74·9	75·1	75·5	75·3	75·5	75·7	75·7	76·0	75·7	73·7
11	75·7	75·6	75·6	75·5	75·4	75·4	75·4	75·6	76·1	76·9	77·8	78·2	79·5	79·8	79·6	79·6	79·3	79·2	79·2	79·1	79·1	79·0	79·0	79·1	77·6
12	79·4	79·5	79·6	79·4	79·3	79·1	79·1	79·1	79·0	78·9	79·9	79·8	79·1	79·1	79·1	78·9	78·5	78·4	78·2	77·9	77·5	77·4	77·1	77·0	78·8
13	77·0	76·9	76·6	75·9	76·1	76·1	76·5	76·9	76·9	76·9	77·2	77·9	78·0	78·0	77·6	78·0	77·6	76·6	76·0	75·0	74·6	74·4	74·7	74·5	76·5
14	74·5	74·6	74·4	74·0	73·1	72·9	72·4	72·0	72·0	72·8	73·8	74·2	75·0	75·3	75·5	75·0	74·9	74·6	74·6	74·5	74·2	74·3	74·3	74·0	74·1
15	74·0	74·6	74·8	74·8	74·7	75·2	75·7	76·0	76·8	77·5	78·0	79·0	79·6	79·9	80·0	80·1	80·0	80·0	80·1	80·1	80·8	81·0	81·2	81·5	78·0
16	81·5	81·0	80·9	80·5	80·1	80·1	79·9	79·9	80·0	80·5	81·0	81·1	82·0	82·2	82·4	82·6	82·7	82·5	83·0	83·0	83·4	84·0	84·1	84·4	**81·7**
17	82·7	81·2	80·3	79·6	79·5	79·5	79·5	79·5	79·5	78·8	77·9	79·6	80·0	80·0	80·1	79·7	79·1	78·9	78·6	78·1	77·5	77·0	76·7	76·8	79·3
18	76·7	76·8	77·0	77·0	77·2	77·2	77·3	77·2	77·9	78·4	79·1	79·5	78·6	79·0	78·5	78·2	78·0	77·7	77·5	77·1	77·0	77·0	77·0	77·0	77·7
19	77·1	77·9	78·9	79·4	80·0	80·1	80·9	81·4	81·5	82·0	82·9	83·0	83·1	83·4	83·4	83·1	82·9	82·6	82·4	82·5	82·1	82·1	82·0	81·9	81·4
20	81·8	81·6	81·2	81·1	81·0	80·9	80·8	80·6	80·6	81·4	82·0	82·2	82·5	82·9	83·1	82·7	82·5	82·7	81·6	79·0	78·1	75·0	74·5	73·6	80·7
21	74·1	73·5	74·1	73·8	73·7	74·0	75·5	76·4	76·9	77·8	79·1	80·6	80·6	80·9	80·9	80·5	80·4	80·5	80·1	80·2	80·3	80·4	80·1	80·0	79·0
22	80·2	80·2	80·3	80·0	80·1	80·1	80·0	80·0	80·1	80·3	81·1	81·5	81·6	81·7	81·6	81·2	81·2	81·3	80·9	79·4	78·7	79·0	79·5	79·1	80·4
23	80·1	80·8	81·0	81·0	81·0	81·0	81·1	81·4	81·3	81·9	82·1	82·1	82·3	82·1	82·6	82·5	82·3	82·8	82·5	82·0	81·6	80·8	80·1	80·2	81·5
24	79·9	79·1	78·6	79·0	78·8	78·1	78·1	78·2	78·5	79·5	80·1	80·8	81·0	81·0	81·4	80·7	80·0	79·1	78·9	79·0	78·7	78·5	78·1	77·5	79·3
25	78·2	77·7	77·1	76·8	77·1	77·6	77·8	77·3	77·5	78·6	79·1	79·7	80·2	80·5	80·7	80·1	79·6	79·0	78·3	78·5	78·4	78·1	77·5	78·0	78·5
26	77·9	77·6	77·0	76·9	76·2	76·5	76·5	76·6	77·1	77·1	78·6	79·1	80·0	80·1	80·3	80·0	79·6	78·4	77·9	77·1	77·5	77·0	76·7	76·2	77·9
27	76·0	75·1	75·1	75·0	73·6	73·6	73·1	73·1	73·2	74·7	76·1	77·1	78·2	78·6	78·6	77·9	77·2	77·4	77·6	77·5	77·7	78·0	78·3	79·0	76·3
28	79·1	79·5	79·0	79·1	79·1	79·1	78·6	78·2	78·5	79·0	79·6	79·8	80·2	80·6	80·6	80·5	80·5	80·0	79·0	78·4	77·9	77·3	76·9	77·0	79·1
29	77·4	77·8	78·1	78·3	78·2	77·7	76·9	76·2	77·0	78·2	78·8	79·0	79·3	79·6	79·1	79·6	78·2	78·0	77·9	77·9	77·8	77·6	77·6	77·5	78·1
30	77·5	77·6	77·8	77·8	77·7	77·1	76·9	76·8	76·7	76·6	75·0	75·2	75·6	75·8	76·5	76·3	77·1	76·5	76·2	75·9	75·2	74·3	73·8	73·2	76·3
31	73·0	72·6	72·2	71·7	71·3	71·2	70·9	70·7	71·4	72·7	75·0	76·5	77·0	77·1	77·0	76·9	76·5	76·1	76·3	76·9	77·4	77·9	78·1	78·5	74·7
Mean ...	76·2	76·1	76·0	75·9	75·9	**75·8**	75·9	75·9	76·2	76·7	77·2	77·9	78·4	78·7	**78·7**	78·4	78·0	77·8	77·4	77·0	76·8	76·6	76·5	76·4	76·9

457. Richmond (Kew Observatory) : North Wall Screen : h_t = 3·0 metres.

February, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	78·7	79·0	79·1	79·5	79·5	79·5	79·0	79·0	79·1	79·9	80·4	79·9	79·6	79·5	78·9	78·8	78·6	78·5	78·5	78·5	78·4	77·8	77·8	77·6	79·0
2	76·1	75·1	74·8	73·8	73·2	72·7	72·7	72·9	73·1	75·0	75·5	76·2	77·1	78·7	79·1	79·0	78·4	78·0	77·5	77·2	77·1	76·9	76·6	76·2	76·0
3	76·3	76·1	76·2	76·7	76·8	76·3	76·6	76·9	77·2	77·6	78·0	78·2	77·5	78·2	78·2	77·1	77·0	76·9	76·2	76·3	76·4	76·3	76·0	75·8	76·9
4	75·6	75·6	75·5	75·4	75·1	75·0	75·0	74·8	75·0	75·2	76·0	75·8	76·1	75·9	76·0	75·8	75·5	75·1	74·9	74·1	73·9	73·6	73·2	72·9	75·1
5	72·9	72·0	72·6	72·6	72·6	72·0	71·8	71·8	71·6	72·3	72·8	73·6	75·0	75·6	75·7	75·1	74·2	73·7	73·4	73·8	74·0	74·2	74·4	74·6	**73·4**
6	74·9	75·0	75·0	75·0	75·7	75·6	75·8	75·8	75·7	75·4	75·5	76·0	76·6	76·8	76·7	76·5	76·3	76·1	76·0	75·9	75·9	75·1	74·9	74·9	75·7
7	74·7	74·7	74·7	74·5	74·4	74·5	74·8	74·9	75·2	76·0	76·7	77·1	78·2	79·0	78·6	78·5	77·3	76·0	73·9	73·0	73·9	71·6	71·6	71·9	75·3
8	72·0	72·4	71·7	71·6	71·6	72·5	73·1	74·1	75·3	76·6	78·1	79·2	80·4	80·5	80·3	80·0	79·8	79·9	79·9	79·4	79·4	79·5	79·8	79·9	76·8
9	80·0	80·1	80·3	80·3	80·5	80·8	81·1	81·4	81·8	82·1	82·5	83·1	84·0	83·8	83·8	83·8	83·5	83·3	83·1	83·0	82·9	83·0	83·0	82·9	82·2
10	83·1	83·1	83·5	83·6	83·5	83·6	83·8	83·9	83·7	81·6	81·9	82·2	81·2	81·3	81·4	80·9	79·7	78·8	78·2	77·7	77·3	77·0	76·8	76·1	81·1
11	76·0	76·0	75·8	75·5	75·0	75·3	75·3	76·2	77·1	78·2	80·2	81·1	81·6	81·6	80·7	80·3	80·2	81·0	81·1	81·6	80·6	80·4	78·6	78·1	78·6
12	76·7	76·5	76·3	75·5	76·6	76·5	76·5	76·8	77·2	78·0	78·6	79·1	79·6	79·7	79·8	79·6	78·3	77·6	77·1	76·6	76·2	75·9	75·7	75·1	77·4
13	75·0	75·5	75·5	75·7	75·7	75·8	75·9	75·6	76·1	76·0	76·6	77·3	77·7	78·0	78·7	78·8	78·0	77·9	77·1	77·0	76·4	75·7	75·2	75·0	76·5
14	75·1	75·1	74·9	74·6	74·3	74·1	74·0	74·3	74·9	76·0	76·7	77·5	78·0	78·6	78·5	77·9	77·0	76·2	75·7	74·6	74·3	74·3	74·4	74·4	75·7
15	74·2	74·1	74·7	75·0	74·4	74·1	74·4	74·6	75·0	76·3	78·0	78·9	79·9	81·0	81·5	81·4	80·6	79·9	78·9	77·8	77·6	77·0	77·4	77·6	77·2
16	77·9	78·0	78·1	78·1	78·1	78·1	78·0	78·1	77·9	77·8	77·5	78·0	78·2	79·0	78·0	77·5	77·4	75·1	75·4	75·5	75·2	75·6	75·2	75·1	77·3
17	75·1	75·1	74·9	74·5	74·1	73·6	73·2	73·5	73·6	73·9	74·3	75·0	75·0	75·5	76·7	76·5	76·0	75·2	75·0	74·5	74·5	74·6	74·6	74·2	74·7
18	74·2	74·5	74·6	74·3	74·5	75·0	75·0	75·1	75·0	75·4	76·1	76·5	77·4	77·2	76·4	76·0	75·8	75·3	75·2	75·0	74·9	74·7	74·6	74·9	75·3
19	75·0	75·1	75·3	75·4	75·3	75·4	75·4	75·5	76·1	76·3	77·2	77·6	78·5	78·9	79·0	78·6	77·6	76·3	74·6	73·3	72·6	72·9	73·3	73·1	75·8
20	73·1	72·6	72·9	73·1	72·2	72·9	74·1	75·1	76·7	77·5	78·9	79·9	80·0	80·0	79·9	79·5	79·0	79·1	79·1	79·4	80·0	80·2	80·5	80·7	77·2
21	80·6	80·0	80·0	79·3	78·9	78·6	78·4	78·7	78·7	79·5	79·6	80·1	80·2	80·2	80·2	80·1	79·7	78·3	77·4	76·6	75·9	74·8	74·7	73·9	78·7
22	73·1	72·5	72·5	72·0	71·4	71·2	71·6	72·1	73·5	75·3	76·9	78·4	79·7	79·6	80·1	80·0	79·1	77·7	76·6	76·1	75·3	75·0	75·1	74·9	75·4
23	74·7	74·3	74·7	74·5	74·5	74·6	74·6	75·0	75·9	76·9	78·6	80·0	80·6	81·1	80·9	80·8	80·2	79·3	78·4	78·9	78·0	77·1	76·0	75·7	77·3
24	74·9	74·8	74·3	73·6	73·1	73·3	73·6	74·0	75·0	76·0	77·9	79·4	80·5	81·5	81·1	81·0	80·6	79·8	78·9	78·2	78·3	78·5	78·8	79·0	77·3
25	79·4	79·4	79·7	79·9	80·0	80·1	80·5	80·8	81·0	81·8	83·0	84·1	84·7	84·9	85·0	84·8	84·6	84·6	84·5	83·9	83·9	83·8	83·6	83·6	**82·5**
26	83·5	83·0	82·8	82·5	82·9	82·5	82·5	82·7	83·4	83·7	84·0	83·7	83·1	84·0	84·3	84·4	82·0	80·1	80·0	79·1	78·9	78·0	77·5	76·8	82·0
27	76·1	75·7	75·0	75·2	74·8	74·6	74·9	74·9	76·1	77·9	79·0	79·9	80·0	80·5	81·1	80·1	79·0	77·8	77·0	77·0	77·8	78·9	80·0	81·0	77·6
28	81·2	80·8	78·0	77·4	76·2	75·7	75·5	75·5	75·8	76·0	77·0	76·0	77·0	75·6	77·8	77·5	75·3	75·0	74·7	74·2	73·8	74·4	74·0	73·2	76·3
Mean ...	76·4	76·3	76·2	76·0	75·9	**75·9**	76·0	76·2	76·7	77·3	78·1	78·7	79·2	79·5	**79·6**	79·3	78·6	77·9	77·4	77·1	76·9	76·7	76·5	76·4	77·3
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

458. Richmond (Kew Observatory) : North Wall Screen : h_t (height of thermometer bulb above the ground) = 3·0 metres.

March, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*
1	73·0	73·3	73·0	73·1	73·2	73·4	72·9	72·4	73·0	73·7	75·1	76·5	77·1	77·6	77·0	76·0	75·9	75·7	74·2	74·3	74·1	74·9	75·0	74·8	74·5
2	73·9	73·1	72·7	72·4	72·0	71·8	71·7	72·2	72·9	73·5	74·7	75·1	75·6	76·1	76·1	75·6	75·4	74·6	73·1	73·0	72·4	72·0	71·9	71·1	73·5
3	71·0	70·5	70·2	70·0	70·0	70·5	71·1	72·0	74·0	76·0	77·2	78·4	78·6	78·7	78·7	78·6	78·1	77·7	77·1	76·0	75·8	76·0	76·0	76·1	74·8
4	76·4	76·5	76·5	76·7	76·8	76·9	77·0	77·1	77·6	78·0	78·2	78·2	78·5	78·7	78·5	78·0	77·4	77·1	76·9	76·9	76·9	76·5	76·0	75·9	77·2
5	75·8	75·5	75·5	75·4	75·3	75·1	75·1	75·2	76·0	77·0	78·3	79·0	79·1	78·9	78·9	78·4	77·5	76·7	76·4	76·1	76·1	76·3	76·1	76·0	76·7
6	76·0	76·0	75·9	76·0	76·0	75·8	75·5	75·1	75·0	75·0	75·0	74·8	74·6	74·5	74·1	73·9	73·1	72·9	72·9	72·8	72·6	72·7	72·7	72·0	74·5
7	72·0	71·8	71·6	71·3	71·1	70·9	70·9	70·6	71·0	71·6	72·2	73·8	73·6	74·0	74·4	73·9	73·5	73·1	73·0	72·9	72·9	73·1	73·0	73·1	72·5
8	73·1	73·1	73·1	73·0	72·9	72·7	72·6	72·6	72·4	72·9	73·6	74·0	74·1	74·7	74·4	74·2	73·6	73·0	72·4	72·0	71·4	70·6	70·0	69·5	72·8
9	69·1	68·6	68·9	69·0	69·1	69·1	69·9	70·1	70·1	70·9	71·0	71·0	69·5	71·1	72·0	72·5	71·1	70·4	69·9	68·9	68·5	67·6	67·0	65·6	**69·7**
10	66·1	67·0	67·0	66·8	67·4	68·0	68·5	69·2	70·1	71·0	71·6	72·9	73·1	73·5	74·5	71·2	72·0	71·8	71·1	70·6	70·5	70·1	71·6	71·6	70·2
11	71·5	71·6	72·1	72·6	72·3	71·9	73·2	74·8	75·7	76·2	76·9	77·1	77·1	77·5	77·6	77·5	77·4	77·0	76·5	76·0	75·4	74·8	74·7	74·2	75·0
12	73·9	73·8	73·7	73·6	73·1	73·0	73·1	73·3	75·1	76·6	77·4	78·1	79·0	79·1	79·6	79·5	79·1	77·3	75·0	74·0	72·9	72·5	71·9	71·9	75·3
13	71·6	71·5	71·7	71·9	71·4	70·8	70·5	71·7	74·1	76·0	78·0	79·5	80·0	80·5	80·7	80·8	79·9	79·0	78·5	78·0	77·4	76·0	75·5	76·1	75·8
14	75·8	75·7	75·5	76·4	76·2	76·4	76·1	76·9	78·2	79·5	81·0	80·9	82·7	82·2	83·0	82·8	82·9	81·1	79·5	78·4	77·6	76·9	76·1	74·8	78·6
15	74·1	72·4	71·7	71·8	72·4	72·6	72·6	72·9	73·2	75·0	78·9	81·0	83·3	83·6	84·0	83·2	82·6	81·0	80·0	79·0	78·0	77·2	76·6	76·1	77·2
16	75·8	75·8	76·0	76·0	76·1	76·3	76·2	76·7	77·3	78·1	79·5	80·0	80·1	80·0	79·4	78·7	77·9	77·1	77·0	76·9	77·1	77·3	77·1	77·0	77·5
17	76·7	76·4	76·2	76·3	76·1	76·0	76·0	76·1	77·1	78·5	80·5	81·0	81·1	81·3	81·1	80·7	80·0	78·9	78·1	77·7	77·3	77·0	76·5	76·0	78·0
18	75·8	75·8	75·2	75·2	75·0	74·6	74·9	76·0	77·4	79·1	81·1	83·4	85·6	87·6	88·0	86·8	85·5	84·9	84·0	83·3	83·3	83·3	82·8	82·6	80·7
19	81·8	80·9	79·9	79·1	78·9	79·8	80·0	80·8	82·6	85·1	88·0	89·0	90·0	90·6	89·4	88·9	87·5	86·4	86·0	85·1	84·8	84·8	84·1	84·1	84·5
20	83·5	82·2	82·2	82·3	82·2	82·2	82·6	83·2	85·1	87·0	88·9	90·2	91·0	91·1	91·8	91·3	89·7	88·5	87·9	87·6	87·1	87·0	86·2	86·0	**86·5**
21	86·1	85·9	85·5	84·9	85·0	84·5	83·6	84·2	85·1	85·5	86·1	86·5	86·3	86·1	86·6	86·1	86·2	85·2	84·0	83·0	82·4	81·8	80·9	81·0	84·8
22	81·2	81·2	81·2	81·2	81·1	81·1	81·0	81·6	82·0	83·5	84·6	85·2	86·1	87·0	86·5	85·0	84·0	83·4	82·5	81·9	81·4	81·5	81·1	81·4	82·8
23	81·3	81·1	81·0	81·0	81·1	81·0	80·7	81·1	82·0	82·9	83·6	84·1	84·9	85·0	86·0	85·5	85·5	84·6	84·6	83·4	82·1	80·6	79·6	78·1	82·6
24	78·2	79·0	79·1	79·3	79·6	79·1	79·4	79·1	79·2	79·5	80·0	80·2	80·4	79·8	79·7	79·8	79·1	79·0	78·9	78·7	78·4	78·1	78·0	77·9	79·1
25	77·9	77·9	77·8	77·7	77·8	77·8	77·7	77·8	77·9	78·6	79·9	81·1	82·9	84·0	83·7	83·0	81·6	80·0	78·0	77·0	76·9	76·8	76·7	76·8	79·1
26	77·0	77·0	76·5	76·3	76·5	76·9	77·2	78·1	78·8	79·5	81·0	83·0	84·6	85·9	86·1	85·4	84·4	82·6	81·0	79·5	78·7	77·9	77·5	77·1	79·9
27	75·5	74·9	73·0	73·6	74·3	74·8	75·2	75·6	76·6	77·1	79·2	83·6	85·6	87·2	87·8	87·8	87·5	86·9	83·2	81·9	81·7	80·0	79·4	78·9	80·0
28	78·6	78·0	78·0	78·1	78·2	77·6	78·1	79·1	81·5	84·0	85·1	86·6	85·9	86·7	85·4	83·1	81·4	80·0	78·7	78·0	77·1	76·7	76·7	76·6	80·4
29	76·5	76·6	76·7	76·7	76·4	76·1	76·6	77·1	77·8	78·0	79·0	79·5	79·9	80·1	80·5	80·5	80·1	79·3	78·4	78·2	78·3	78·2	78·5	78·6	78·2
30	78·4	78·1	78·0	77·9	77·9	77·9	77·9	78·2	79·2	80·4	81·1	81·5	81·9	82·0	82·0	81·1	80·1	79·1	78·6	78·0	78·0	78·0	77·9	77·6	79·2
31	77·2	77·1	77·0	76·9	76·6	76·6	76·7	77·4	79·1	80·5	81·0	81·6	82·2	81·4	80·6	80·0	79·0	78·0	77·4	77·0	76·9	76·5	76·0	75·7	78·3
Mean ...	76·0	75·7	75·6	75·6	75·5	**75·5**	75·6	76·1	77·0	78·1	79·3	80·2	80·8	81·2	**81·2**	80·6	80·0	79·1	78·2	77·6	77·2	76·9	76·5	76·3	77·7

459. Richmond (Kew Observatory) : North Wall Screen : h_t = 3·0 metres.

April, 1931.

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*	°*A*
1	75·2	74·7	74·5	74·0	73·8	73·7	74·9	77·2	78·6	79·5	80·8	80·7	81·0	81·4	81·0	80·2	79·1	79·1	78·9	79·0	79·1	79·4	79·3	79·0	78·0
2	78·5	78·5	78·5	77·9	77·8	77·9	78·0	78·4	79·0	79·7	80·0	81·0	81·7	83·1	84·0	84·7	84·1	83·1	82·3	82·0	81·9	81·6	81·7	81·8	80·7
3	81·7	81·7	81·5	81·0	80·9	80·7	80·4	79·7	79·8	79·6	79·3	79·1	79·1	79·2	79·1	78·9	78·9	78·9	78·7	78·5	78·1	78·0	78·0	78·1	79·6
4	78·2	78·1	78·0	77·1	76·2	76·1	76·9	78·6	80·0	80·7	81·6	82·1	83·1	84·1	84·5	85·0	84·2	83·8	82·5	81·5	80·4	79·8	79·4	79·0	80·4
5	78·8	78·4	78·1	78·2	78·4	78·9	79·5	80·0	81·5	81·7	80·1	81·1	81·4	81·5	81·6	81·9	81·5	81·1	80·9	80·5	80·1	79·9	79·6	79·5	80·2
6	79·6	79·4	79·5	79·6	79·7	79·9	80·0	80·1	80·8	81·1	81·0	82·1	83·0	83·7	83·2	82·9	81·9	81·4	80·5	79·8	79·6	79·5	79·1	79·1	80·7
7	79·1	79·0	79·0	79·0	79·1	79·1	79·5	79·8	80·2	80·8	81·5	82·4	83·0	83·8	84·2	84·5	84·0	83·9	83·2	83·0	82·9	82·1	81·1	80·2	81·4
8	80·0	79·8	79·9	79·9	79·6	79·3	80·0	81·0	83·3	86·0	85·6	86·0	87·4	88·6	88·6	88·8	87·1	87·1	85·8	84·1	83·5	82·9	82·2	81·9	83·6
9	81·5	81·5	80·5	80·1	80·0	80·2	81·1	82·6	83·8	85·2	87·2	87·1	88·1	88·0	87·5	87·5	87·6	87·0	86·1	86·0	85·8	85·6	85·2	84·9	84·5
10	84·6	84·5	84·5	83·9	83·8	83·6	82·7	82·5	83·4	84·1	85·1	86·4	87·5	88·2	88·7	89·1	88·5	88·0	86·6	84·3	82·0	80·7	80·0	79·4	**84·8**
11	78·5	77·8	77·5	77·9	78·4	78·0	78·1	78·9	80·0	82·6	85·0	87·1	88·5	89·5	89·5	89·4	89·2	88·4	86·0	84·6	83·2	82·6	81·5	80·0	83·0
12	80·0	79·5	79·0	78·6	77·9	77·6	79·5	82·0	83·8	85·6	87·1	88·2	88·9	89·5	88·9	88·0	86·9	85·0	82·5	82·3	82·0	81·0	80·2	79·7	83·1
13	79·1	79·1	78·9	78·2	78·0	78·0	78·8	79·5	80·5	81·4	82·2	83·3	83·9	84·7	84·9	84·5	84·1	83·9	82·0	81·1	80·3	80·0	78·9	78·2	81·0
14	78·3	78·0	78·9	80·0	80·2	80·6	81·0	81·9	82·8	83·6	84·0	84·4	84·5	85·2	85·6	86·0	86·1	85·6	84·6	84·0	83·8	83·7	83·2	83·0	82·8
15	82·7	82·3	82·1	81·9	81·6	81·6	81·9	82·1	83·0	83·4	83·8	84·2	84·1	84·0	84·1	83·7	83·3	82·6	82·1	82·0	80·9	80·5	80·7	80·9	82·5
16	80·9	80·7	80·6	80·3	79·9	80·1	80·5	81·0	80·9	81·3	80·5	81·0	81·9	83·0	83·7	84·2	84·2	83·2	82·5	82·0	81·5	81·2	81·0	80·9	81·5
17	80·0	80·1	80·1	80·0	79·9	80·0	80·8	81·0	80·8	81·2	82·0	82·5	80·5	81·9	83·2	83·1	81·2	81·1	77·4	77·0	76·5	76·2	76·3	74·4	80·0
18	74·6	74·7	74·9	75·0	74·5	74·6	76·9	77·0	77·2	77·0	78·1	80·0	81·0	81·2	80·5	81·4	80·3	78·6	78·9	78·1	78·0	77·8	77·1	77·1	**77·6**
19	77·1	76·7	76·3	76·9	76·8	77·9	78·2	79·5	78·6	79·1	78·0	77·7	78·6	78·1	78·4	78·4	78·4	78·1	78·0	77·9	77·9	77·9	78·1	78·5	77·9
20	78·6	78·6	78·3	78·1	78·1	78·0	78·1	78·4	78·4	78·5	79·0	79·1	79·5	79·0	79·9	80·6	80·7	80·0	79·1	79·5	79·1	78·8	78·1	78·1	78·9
21	77·9	77·8	77·6	77·5	77·9	77·8	78·4	79·4	79·6	80·6	81·1	82·0	81·6	82·5	82·4	82·3	81·9	81·0	81·2	80·0	80·0	79·8	79·5	79·1	79·9
22	78·6	78·1	77·8	77·0	76·7	76·9	78·0	79·0	80·6	82·0	83·0	83·4	84·1	84·3	85·0	84·6	84·3	83·5	82·5	81·3	80·6	80·6	80·1	78·9	80·9
23	78·6	78·1	78·1	78·1	78·6	79·0	80·5	82·0	82·7	81·3	81·6	83·6	84·7	85·0	84·9	85·1	84·8	83·7	82·9	82·5	82·3	82·1	81·9	81·8	81·8
24	81·5	81·5	81·0	81·1	81·3	81·3	82·4	83·4	84·8	85·0	85·6	86·0	86·0	85·4	85·9	85·0	83·0	83·0	82·9	82·6	82·8	82·1	81·9	82·0	83·2
25	81·9	82·0	81·5	81·5	81·1	81·6	82·1	81·9	81·0	80·3	82·0	83·6	83·2	81·9	80·7	80·9	81·8	82·0	81·9	81·0	80·9	80·9	80·4	80·4	81·6
26	80·5	80·4	80·7	80·6	80·6	81·0	81·7	83·2	84·0	83·3	83·7	82·8	84·0	83·9	84·0	83·6	83·8	83·0	81·0	81·0	81·1	80·8	80·0	80·8	82·1
27	81·0	81·1	81·2	81·0	80·9	81·4	81·5	82·4	82·5	83·4	84·9	85·0	83·1	84·1	84·8	83·3	84·0	84·8	84·0	82·5	81·5	81·5	80·8	81·1	82·6
28	80·9	80·5	80·1	79·8	79·7	80·0	80·1	81·0	82·6	82·9	83·4	83·2	83·0	83·0	82·1	82·4	82·2	82·5	82·0	81·5	81·3	80·9	80·1	79·2	81·5
29	78·5	78·1	78·0	78·3	79·3	79·3	79·5	80·0	80·7	81·0	81·3	83·0	83·5	84·1	84·8	85·3	86·3	85·9	84·5	83·4	82·6	82·1	82·0	81·6	81·7
30	81·1	81·0	79·7	79·1	78·5	78·5	79·6	82·0	83·9	85·1	86·8	87·0	87·5	88·2	88·3	88·6	88·9	88·4	86·4	84·0	82·9	81·5	81·0	80·2	83·7
Mean ...	79·6	79·4	79·2	79·1	**79·0**	79·1	79·7	80·5	81·3	81·9	82·5	83·2	83·6	84·0	**84·1**	84·1	83·7	83·3	82·3	81·6	81·1	80·7	80·3	80·0	81·4
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

460. Richmond (Kew Observatory) : North Wall Screen : h_t (height of thermometer bulb above the ground) = 3·0 metres.

May, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	79·5	78·9	78·1	77·7	77·9	78·8	79·6	80·6	83·1	85·0	86·1	87·0	87·1	87·0	88·3	87·0	86·6	86·1	85·5	85·0	84·5	83·8	83·1	82·7	83·2
2	82·1	82·0	81·6	81·4	80·9	81·1	82·4	83·8	85·2	86·2	86·1	87·0	87·5	87·0	87·3	87·0	86·5	85·9	84·9	84·7	84·1	84·0	82·9	82·0	84·3
3	81·1	80·5	80·0	79·6	79·4	79·6	80·4	81·1	81·5	81·4	81·1	80·4	80·7	80·5	80·1	80·0	79·9	79·8	79·5	79·5	79·5	79·3	79·2	79·3	**80·2**
4	79·4	79·3	79·0	78·9	78·5	77·7	77·9	80·8	82·0	83·0	84·0	85·1	86·0	85·9	86·3	85·0	84·5	83·9	83·3	81·5	81·4	81·0	80·7	79·6	81·9
5	78·9	78·5	78·5	77·9	78·5	79·6	81·1	82·8	83·9	84·6	85·0	86·3	87·5	86·6	87·3	87·4	88·0	87·4	86·4	83·8	82·8	82·0	82·0	82·9	83·3
6	82·1	81·9	80·2	79·1	81·8	82·9	84·7	86·8	87·9	88·1	89·8	90·0	91·0	91·5	91·5	91·7	91·1	89·5	88·0	86·1	85·1	84·9	83·1	82·5	86·3
7	81·6	82·5	82·8	82·5	82·0	82·5	83·0	84·1	85·1	86·0	86·9	87·2	87·0	87·8	87·4	88·0	88·5	89·1	87·7	85·4	84·3	83·3	83·5	83·3	85·0
8	83·2	83·0	82·5	82·5	82·0	82·0	82·1	82·5	82·6	84·2	85·5	86·6	88·0	88·1	87·4	88·5	88·5	88·0	84·9	84·0	83·6	83·0	82·6	82·8	84·5
9	82·9	83·0	82·5	82·0	81·6	81·2	81·3	82·1	83·6	84·1	85·1	86·7	88·0	89·0	89·9	90·4	90·9	90·6	89·0	87·5	85·1	84·5	82·8	82·6	85·3
10	81·7	81·0	80·4	80·2	81·6	82·2	83·5	85·1	86·5	88·0	89·0	89·5	89·9	89·2	89·0	88·0	87·9	87·4	86·6	85·9	85·0	84·5	84·0	83·6	85·4
11	83·2	83·2	83·7	83·8	83·8	84·0	85·3	87·2	88·3	88·0	89·0	88·5	90·5	91·0	91·4	91·5	90·0	89·0	88·4	87·5	86·4	85·6	85·1	85·0	87·0
12	84·9	84·6	84·8	84·5	84·7	85·4	86·0	87·6	88·5	89·7	89·7	90·9	90·1	91·0	90·6	90·4	90·7	90·0	89·2	87·6	86·3	84·9	83·8	83·9	87·5
13	84·1	84·1	84·3	84·0	84·1	84·4	85·9	86·5	87·6	88·5	90·0	91·3	91·9	91·7	91·0	90·0	88·9	89·2	88·1	87·0	86·3	85·6	85·0	84·0	87·2
14	83·4	83·2	83·1	83·8	84·1	85·0	86·4	87·0	87·4	87·8	89·0	89·8	89·7	90·0	90·1	89·9	88·9	87·9	86·9	86·1	85·7	85·0	84·2	83·4	86·6
15	83·2	83·0	82·0	81·5	83·0	84·0	85·1	85·5	85·7	85·7	85·3	86·5	85·8	84·7	85·1	85·1	85·7	86·4	85·9	85·8	84·9	84·5	84·5	84·3	84·7
16	84·0	84·1	84·2	84·1	84·1	84·2	84·6	85·3	86·0	86·3	86·1	86·4	85·9	86·0	85·5	84·8	84·0	84·0	84·0	83·7	82·8	82·6	82·8	82·9	84·5
17	82·5	82·5	82·5	82·1	82·2	82·6	83·0	83·5	83·5	84·1	84·7	84·7	85·3	85·0	85·3	85·6	84·7	84·0	83·9	83·2	82·8	82·9	82·9	82·7	83·6
18	82·4	82·0	82·0	82·0	82·0	81·9	81·5	82·0	82·3	83·0	82·9	82·9	83·7	85·0	85·2	84·0	84·0	84·1	83·8	83·2	83·0	82·6	82·0	81·0	82·9
19	80·9	80·7	80·6	80·5	80·4	80·5	81·2	81·7	82·6	83·0	83·6	83·5	84·0	83·8	84·1	84·0	83·5	83·4	83·0	82·5	82·0	81·5	81·0	80·9	82·2
20	80·5	80·2	80·1	80·0	79·9	80·0	80·9	81·3	81·9	82·1	82·1	82·1	82·2	82·6	83·3	82·9	83·0	82·5	82·4	81·7	81·6	81·1	80·9	80·6	81·5
21	80·2	80·1	79·6	78·7	78·5	79·5	81·0	81·8	82·9	83·7	84·3	85·6	86·0	86·1	85·9	84·7	84·0	83·2	82·9	82·4	82·2	82·1	82·2	82·2	82·5
22	82·2	82·1	82·2	82·3	82·4	82·9	83·2	84·6	85·0	85·1	86·5	86·5	88·0	89·4	90·0	90·0	91·0	90·5	88·9	86·0	83·2	82·3	81·6	81·4	85·3
23	82·2	82·8	83·4	83·5	83·9	84·5	85·7	87·0	88·2	90·3	90·5	90·4	89·0	88·0	87·5	87·0	86·1	85·8	85·8	85·1	84·6	84·5	83·5	83·2	85·9
24	83·0	83·8	83·9	84·0	84·1	84·9	85·2	86·4	86·3	86·1	86·0	87·0	87·0	88·1	88·9	89·0	88·8	88·2	88·1	87·1	86·1	85·1	84·6	84·3	86·1
25	84·1	84·0	83·0	82·6	82·8	85·1	86·4	87·8	88·4	89·7	90·2	90·9	91·9	92·2	93·0	93·5	93·3	93·8	91·6	90·1	89·1	88·5	88·0	86·9	88·6
26	86·1	85·8	85·2	84·5	85·0	86·1	88·4	89·9	91·0	92·2	93·0	94·1	95·3	95·4	94·7	94·0	93·4	92·9	92·1	91·9	90·0	89·6	89·0	88·0	90·3
27	87·2	86·8	86·4	85·0	85·6	86·9	88·7	90·3	92·0	93·6	94·5	95·1	95·1	95·9	95·0	94·2	**93·5**	92·5	91·9	91·0	89·2	88·9	88·5	88·5	**90·7**
28	88·0	88·0	87·5	87·5	87·6	87·5	87·1	87·8	88·0	88·9	89·5	90·1	90·7	92·4	92·0	92·0	92·4	92·5	91·6	88·5	86·7	85·4	84·1	83·1	88·8
29	82·7	82·0	81·7	80·9	83·1	84·8	86·1	88·9	89·2	90·2	90·4	88·5	87·6	89·5	90·8	91·1	92·0	92·8	91·0	88·5	86·7	86·1	84·9	85·4	87·2
30	85·8	85·9	86·0	86·0	86·1	87·2	88·1	89·1	90·1	90·9	91·6	92·2	91·2	91·5	90·2	88·4	88·6	88·8	88·0	87·5	87·2	86·5	85·0	84·9	88·2
31	85·0	83·9	83·1	82·6	82·8	84·5	86·5	87·2	88·9	89·9	90·5	91·4	91·0	90·2	91·6	92·0	91·5	89·6	88·5	87·5	86·5	86·1	85·8	85·5	87·6
Mean ...	82·8	82·7	82·4	**82·1**	82·4	83·0	83·9	85·1	86·0	86·7	87·3	87·9	88·2	88·5	**88·6**	88·3	88·1	87·7	86·8	85·7	84·8	84·3	83·7	83·3	85·4

461. Richmond (Kew Observatory) : North Wall Screen : h_t = 3·0 metres.

June, 1931.

	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	85·0	84·9	84·5	84·8	84·7	85·5	86·0	85·9	87·1	88·0	88·0	88·9	86·5	87·7	89·4	90·5	88·3	88·9	88·8	87·8	86·4	85·6	85·1	84·6	86·8
2	84·8	84·5	84·5	83·9	84·0	85·0	86·8	87·1	88·6	88·9	90·0	91·7	91·7	93·7	92·9	93·6	92·4	91·7	90·3	89·2	88·5	87·6	87·1	86·9	88·5
3	86·9	86·8	86·7	86·8	87·1	87·1	87·7	88·0	88·9	90·4	91·0	91·6	91·7	91·9	91·9	92·1	92·8	93·5	93·5	90·9	89·9	89·0	88·4	87·6	89·7
4	87·0	86·2	86·1	86·1	86·5	86·9	87·5	88·1	88·9	90·0	91·4	92·3	94·0	94·9	94·8	94·1	94·0	92·5	91·0	88·0	87·2	86·7	86·2	85·5	89·5
5	85·3	85·2	85·4	85·5	85·5	85·5	86·1	86·8	87·6	88·8	89·2	89·2	89·5	89·6	87·0	86·0	85·9	85·2	85·5	85·5	85·6	85·9	86·1	86·1	86·6
6	86·0	86·1	86·0	86·5	86·5	86·5	87·1	88·6	89·4	90·1	90·1	91·6	92·6	92·1	92·8	93·0	91·7	91·6	91·2	88·9	88·2	87·9	87·5	86·9	**89·1**
7	86·1	85·6	85·5	85·5	86·0	86·6	88·0	88·9	88·5	88·1	89·0	89·0	89·8	90·0	88·1	88·2	87·5	87·0	87·0	86·6	86·6	86·6	86·8	86·7	87·4
8	86·8	87·0	86·8	86·4	86·4	86·9	87·1	87·9	89·0	90·7	90·8	91·2	92·0	93·0	92·5	92·0	91·5	91·0	91·0	89·5	88·6	87·5	86·9	86·5	89·1
9	86·0	85·6	85·6	85·1	85·4	85·9	86·0	87·2	87·8	89·0	89·5	90·7	91·5	92·6	92·2	91·5	91·0	90·1	89·6	89·1	88·5	88·2	88·1	88·1	88·5
10	88·1	88·0	87·9	87·8	87·8	88·0	**88·1**	88·8	88·6	89·9	90·1	89·5	89·7	90·0	90·3	91·0	90·9	90·0	90·0	89·8	89·1	89·0	88·9	88·5	**89·1**
11	88·2	88·2	88·2	88·2	88·3	88·8	90·0	90·2	90·9	91·0	91·0	92·0	93·2	93·2	92·0	91·9	91·4	91·0	91·1	91·0	90·6	90·3	90·0	89·9	90·4
12	89·4	89·1	89·1	89·0	89·0	89·0	89·7	89·8	90·2	91·2	93·0	93·3	94·5	95·3	95·3	95·4	95·0	94·2	94·0	92·0	90·8	89·4	88·3	87·5	91·4
13	86·7	86·0	85·1	84·9	85·1	86·9	88·9	89·4	90·0	91·7	93·0	93·7	94·0	94·4	95·6	94·2	93·2	92·2	91·4	90·8	89·9	89·1	88·6	89·0	90·1
14	89·0	88·5	88·0	87·7	88·0	88·9	89·9	91·5	92·5	94·0	94·9	94·9	95·0	97·2	92·7	93·4	94·2	95·2	93·1	91·1	90·0	88·8	87·4	87·0	91·4
15	87·6	88·0	87·8	86·9	86·0	86·0	86·3	87·0	88·3	88·9	89·6	91·0	91·6	92·0	92·2	92·6	92·5	92·5	89·8	88·3	87·1	86·5	86·4	85·5	88·8
16	85·1	85·2	85·0	84·4	85·0	86·9	88·5	89·2	90·1	90·8	91·5	91·8	92·1	91·9	91·3	90·5	90·9	91·0	90·4	89·5	88·3	87·9	87·5	87·1	88·8
17	86·7	86·6	86·5	86·4	86·9	87·5	87·1	87·9	88·5	88·5	89·1	90·6	89·1	90·7	90·4	90·4	91·0	90·4	89·0	88·5	87·1	85·7	85·0	84·1	88·1
18	83·2	82·5	82·0	82·1	84·2	85·1	86·0	87·7	88·3	88·9	89·3	90·9	87·1	89·1	90·1	89·3	89·0	89·5	89·0	87·1	86·6	86·5	86·1	86·0	86·9
19	86·0	85·1	85·0	84·6	85·5	85·9	87·0	88·0	88·9	86·9	89·1	87·9	89·4	88·9	91·0	89·8	86·5	86·9	86·0	85·5	84·3	83·6	84·3	83·9	86·7
20	83·7	83·1	83·1	83·9	84·9	84·9	85·2	85·1	85·8	86·0	87·6	87·0	88·0	88·6	90·0	89·5	90·5	90·5	90·0	87·4	85·7	85·0	84·2	84·1	86·4
21	83·5	83·5	82·9	82·1	83·8	84·5	86·0	87·1	88·3	90·0	90·2	90·8	92·7	93·2	94·4	95·1	95·1	95·6	95·0	93·1	92·4	91·2	89·7	88·7	89·4
22	87·8	87·0	86·5	86·2	86·9	86·7	87·2	88·7	90·3	92·0	93·5	94·9	95·9	96·1	95·9	96·0	95·3	95·5	96·0	93·4	91·8	90·9	90·5	90·0	91·4
23	89·9	89·8	89·1	88·9	89·0	89·7	90·1	91·7	91·5	91·9	92·1	93·0	93·5	94·5	94·7	96·5	95·6	94·9	94·1	93·1	91·1	91·7	91·5	91·0	**92·0**
24	90·8	90·4	90·0	89·5	89·4	89·0	89·5	89·5	86·7	86·1	86·3	86·3	85·9	87·1	87·2	86·9	86·9	87·1	86·1	85·9	85·0	83·4	83·0	82·0	87·3
25	81·3	80·6	80·3	80·2	81·5	82·1	83·7	85·0	85·1	85·6	86·0	86·3	87·0	87·0	86·7	87·5	87·9	88·1	87·5	87·1	86·5	86·0	85·6	85·2	**84·9**
26	84·5	83·0	82·0	81·1	81·6	83·8	85·5	86·9	88·0	88·9	90·9	91·9	92·8	93·0	93·2	94·5	94·2	94·1	94·0	91·0	88·1	86·5	86·0	85·0	88·4
27	84·5	83·8	83·0	82·3	83·0	85·5	87·0	88·4	90·1	91·6	92·9	93·9	94·5	95·1	95·9	96·7	96·9	97·0	96·9	94·8	91·0	90·5	89·3	88·5	90·5
28	87·9	86·9	86·2	86·0	86·8	86·2	86·9	88·2	89·9	90·4	92·0	93·2	94·3	94·7	94·9	95·3	97·0	97·7	97·0	95·0	93·3	92·0	91·0	90·0	91·3
29	89·1	88·9	88·8	88·1	88·0	87·9	88·4	88·9	89·5	90·1	91·3	91·4	92·0	92·4	92·8	93·2	93·9	93·5	92·5	91·0	89·7	88·8	88·1	87·9	90·3
30	86·9	86·0	85·0	84·1	84·3	85·0	86·5	88·5	90·0	90·9	91·8	93·0	93·1	94·5	94·0	93·9	93·1	92·9	92·0	91·0	89·6	88·1	86·5	85·5	89·5
Mean ...	86·5	86·1	85·7	**85·5**	85·9	86·5	87·3	88·2	88·9	89·6	90·5	91·1	91·5	92·1	92·1	**92·1**	91·9	91·7	91·1	89·7	88·6	87·9	87·3	86·8	88·9
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

462. Richmond (Kew Observatory) : North Wall Screen : h_t (height of thermometer bulb above the ground) = 3·0 metres.

July, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	84·6	84·9	84·2	84·4	84·3	86·0	88·0	89·9	90·9	92·3	92·8	93·6	94·2	95·4	94·5	95·4	96·3	95·0	94·2	93·0	91·3	89·9	89·0	88·6	90·5
2	88·1	88·0	87·6	87·1	87·0	87·9	89·0	89·5	89·5	89·5	90·7	91·3	91·9	92·3	92·3	92·2	93·4	93·6	92·5	90·7	89·6	89·1	88·8	87·9	90·0
3	86·8	86·0	85·0	84·7	85·5	86·5	87·5	89·1	89·9	90·8	92·2	93·3	94·6	95·5	95·9	96·0	96·8	97·5	96·5	92·9	90·1	88·9	87·6	87·0	90·7
4	87·1	87·5	87·9	88·1	88·4	88·9	89·7	90·3	91·7	92·7	94·2	95·2	94·1	93·8	92·4	92·2	91·9	91·6	91·2	90·9	90·5	90·1	89·9	89·4	90·8
5	89·1	88·9	88·9	88·8	89·0	89·4	90·8	90·7	88·5	91·6	92·9	93·5	94·3	94·9	94·1	93·8	93·2	92·0	91·8	90·7	89·7	89·1	88·2	87·7	90·9
6	87·2	86·8	86·2	86·2	86·1	86·3	86·5	87·1	88·7	89·9	90·0	91·9	91·1	92·2	93·4	94·0	94·1	94·5	93·9	90·4	88·4	87·6	86·0	85·0	89·3
7	84·4	83·9	83·5	84·0	84·9	85·9	87·0	88·1	89·7	90·6	91·7	91·5	92·9	93·4	95·0	94·0	93·6	92·5	90·5	88·9	88·1	88·0	87·3	87·0	89·0
8	86·6	86·2	85·3	85·0	85·3	86·0	87·0	88·0	89·5	90·3	90·0	89·8	91·0	91·2	90·8	90·0	89·6	89·2	89·0	88·5	88·2	87·6	86·5	85·9	88·2
9	85·4	84·5	84·0	84·1	84·1	85·6	87·2	88·9	90·2	90·5	91·1	91·7	93·2	94·1	93·5	93·2	92·7	92·9	93·4	91·4	89·4	88·8	88·0	87·9	89·4
10	88·3	88·0	88·0	88·3	89·0	89·1	89·5	90·2	91·5	91·5	92·1	92·2	92·1	92·6	93·8	94·7	94·7	93·9	93·7	91·1	89·7	89·3	89·0	89·0	90·9
11	88·1	88·0	88·1	88·2	88·5	89·1	89·8	90·0	91·1	91·8	93·4	94·3	93·4	94·5	95·4	95·0	95·5	96·5	95·7	92·9	90·6	88·7	87·9	87·7	91·5
12	87·6	88·0	87·5	89·1	89·5	89·8	90·4	91·4	92·5	94·1	97·0	96·2	96·2	96·6	96·0	96·1	96·1	96·0	93·2	91·9	90·4	89·4	88·6	88·0	**92·1**
13	87·5	87·4	87·0	86·9	88·0	88·0	89·9	89·4	91·7	91·1	92·5	92·0	93·0	93·0	93·0	92·7	92·9	92·9	93·6	91·1	89·5	88·5	88·0	87·5	90·3
14	87·6	87·0	86·8	87·0	87·5	88·4	89·5	90·6	90·5	91·8	91·5	92·0	92·5	92·0	92·0	91·0	89·0	88·9	87·8	87·7	87·6	87·4	87·0	87·1	89·2
15	87·1	87·0	87·1	87·0	86·9	86·8	86·8	87·2	88·0	89·0	89·0	88·6	89·9	89·9	90·3	89·6	90·2	89·9	88·1	88·0	87·6	87·6	87·5	87·5	88·2
16	87·5	87·3	87·1	87·0	87·0	87·4	87·9	88·5	89·6	91·0	92·0	92·7	91·9	93·2	93·5	93·3	92·9	91·8	91·0	90·2	89·3	88·8	88·0	87·1	89·8
17	86·4	86·7	87·4	87·3	87·6	87·9	88·7	89·2	90·0	90·3	90·5	90·0	89·9	88·9	88·7	88·9	88·6	88·8	88·2	88·2	88·2	88·4	88·4	88·6	88·5
18	88·9	88·9	88·5	88·1	88·0	88·1	88·1	88·9	89·1	89·1	90·0	89·8	89·9	89·6	89·5	89·5	90·1	91·0	90·0	88·9	87·7	87·1	86·8	86·3	88·9
19	86·1	86·2	86·1	86·2	86·6	87·4	88·4	89·0	89·5	90·9	88·9	87·9	89·7	90·5	90·0	89·1	88·9	88·1	87·5	86·9	86·2	86·0	86·0	85·5	87·8
20	84·9	84·5	84·5	84·6	84·9	86·0	86·5	86·6	87·1	88·0	89·1	88·2	89·3	88·9	89·9	89·9	86·5	86·4	86·1	86·0	86·0	85·1	84·6	83·7	**86·6**
21	83·5	83·4	83·0	82·8	82·9	83·5	84·5	86·1	87·6	88·4	89·1	89·7	90·2	90·5	91·0	90·7	91·5	90·6	89·9	89·0	88·2	88·0	87·8	87·0	87·4
22	86·9	87·0	87·0	87·0	87·2	87·5	88·2	89·1	90·0	90·8	92·4	93·6	93·7	94·2	93·7	94·0	92·9	93·9	94·0	90·5	89·0	88·0	87·5	86·9	90·2
23	86·4	85·9	85·9	85·8	86·4	87·4	88·9	90·6	91·9	93·2	94·0	95·4	95·4	95·9	96·1	96·7	96·9	96·1	94·0	92·1	89·6	88·9	88·6	87·3	91·2
24	87·4	85·5	86·3	85·1	85·4	87·1	88·7	88·9	90·6	91·9	93·0	94·8	96·0	96·0	95·9	95·1	95·0	93·6	92·9	90·9	90·2	89·2	88·9	88·1	90·7
25	88·6	88·9	88·8	88·2	88·1	88·2	88·6	88·6	88·6	90·6	90·1	92·5	92·0	92·0	88·1	89·1	88·0	88·6	88·3	88·1	88·0	87·9	88·1	88·1	89·0
26	87·9	88·0	88·1	88·0	87·9	87·8	88·5	89·4	89·4	90·1	91·0	90·1	89·1	88·4	88·5	89·8	90·6	90·1	90·0	89·5	89·3	89·1	88·7	88·1	89·1
27	88·0	87·6	87·2	86·1	86·0	86·7	86·9	88·1	89·0	90·0	89·7	90·1	91·7	91·7	91·2	89·9	88·9	89·8	90·0	88·0	87·1	86·5	86·0	85·4	88·5
28	85·0	85·1	85·2	85·7	85·6	86·2	87·1	87·6	88 5	89 0	89·8	89·9	90·3	90·5	91·0	90·9	90·0	89·0	88·6	88·1	87·7	87·5	86·6	86·0	87·9
29	85·2	84·9	84·2	84·1	84·9	85·9	86·9	88·3	89·0	90·0	90·9	91·1	89·9	89·8	90·4	90·0	90·9	90·4	89·1	88·4	88·0	87·5	87·5	87·6	88·1
30	87·7	87·1	87·3	87·1	87·0	87·4	88·0	88·6	90·6	91·1	91·6	91·8	92·0	91·9	92·6	93·4	94·1	93·0	91·5	91·0	89·8	89·3	88·9	87·7	90·0
31	87·1	87·1	86·6	86·5	86·1	86·8	87·2	87·8	88·6	89·5	90·7	90·9	91·8	92·2	92·6	92·6	92·9	93·1	91·3	90·1	88·9	88·0	87·0	86·5	89·3
Mean ...	86·9	86·7	86·5	**86·4**	86·6	87·3	88·1	88·9	89·8	90·7	91·4	91·8	92·2	**92·4**	92·4	92·3	92·2	92·0	91·2	89·9	88·8	88·2	87·7	87·2	89·5

463. Richmond (Kew Observatory) : North Wall Screen : h_t = 3·0 metres.

August, 1931.

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	86·1	85·1	85·2	85·6	86·0	86·7	88·2	90·2	91·5	92·5	93·6	94·1	94·3	95·2	95·8	95·5	95·0	94·6	94·0	93·1	92·1	91·4	90·9	90·1	91·0
2	89·5	89·2	89·4	88·8	88·2	88·2	87·8	88·0	89·1	89·7	90·0	90·4	90·4	92·0	93·2	93·6	93·0	92·1	91·2	90·9	90·6	90·5	90·5	90·1	90·3
3	90·1	90·2	90·0	90·0	89·8	89·4	90·0	90·4	92·0	93·0	94·2	94·9	95·6	95·7	94·7	93·0	92·1	91·8	90·9	90·1	89·5	89·1	88·6	88·9	91·4
4	89·0	89·5	89·9	90·1	90·5	90·9	91·4	91·9	92·5	92·7	93·5	95·7	97·0	97·7	96·6	96·0	95·7	95·6	94·5	94·0	93·0	92·1	92·2	91·8	**93·0**
5	91·5	91·6	91·4	91·5	91·5	91·1	91·2	91·1	91·9	92·1	92·4	93·1	94·1	96·0	97·0	96·4	95·4	95·6	95·4	90·4	90·6	90·6	89·8	90·7	92·6
6	90·8	90·2	89·9	89·4	89·0	88·9	89·0	89·0	89·6	89·9	90·1	91·0	91·1	92·2	92·9	92·9	92·6	92·1	91·7	90·4	89·9	90·0	89·7	89·0	90·5
7	88·0	87·5	87·1	87·0	87·0	87·5	89·1	90·1	91·0	91·1	92·6	93·1	93·8	94·2	93·8	94·5	93·5	92·5	91·7	90·7	90·0	89·2	88·8	88·1	90·5
8	87·2	87·5	86·9	86·5	86·9	87·8	88·4	89·9	90·1	91·1	89·0	89·5	88·1	88·5	89·6	90·1	87·1	85·2	85·0	84·0	83·7	83·9	84·0	84·1	87·3
9	84·1	84·1	83·6	83·3	82·4	82·5	83·0	84·1	84·9	85·7	86·6	87·1	86·9	87·8	87·5	87·9	87·9	89·1	87·7	85·7	85·0	84·1	83·1	82·7	85·3
10	82·1	82·0	81·4	81·4	81·1	81·8	84·0	84·6	85·1	86 0	87 0	86 9	87 1	87 0	87·5	88·6	88·3	87·6	87·6	87·5	87·5	87·2	85·6	84·9	85·4
11	84·0	84·0	83·9	83·2	82·5	82·6	83·9	85·5	86·7	87·5	88·7	89·9	90·1	90·7	90·5	90·6	90·4	90·4	89·5	89·0	88·5	88·0	87·6	87·3	87·2
12	87·0	86·9	86·6	86·8	86·9	87·0	88·0	89·0	90·0	91·0	92·1	92·8	93·0	93·6	93·7	93·1	92·9	93·1	91·5	90·2	89·7	89·9	89·5	89·1	90·1
13	89·0	89·0	88·5	88·5	88·5	88·5	88·8	88·9	89·1	90·0	89·2	91·6	92·8	93·2	91·3	91·0	90·7	89·7	89·1	88·6	88·5	88·1	88·1	87·9	89·5
14	87·9	87·9	87·9	87·8	87·4	87·5	87·9	88·1	88·6	87·9	87·7	87·6	87·9	87·9	89·0	89·9	89·1	88·8	88·0	86·9	86·5	86·5	86·1	85·5	87·8
15	85·5	85·1	85·1	85·2	85·8	86·4	87·1	88·5	89·4	89·7	91·8	92·4	92·6	93·1	93·1	92·9	92·9	93·0	91·6	89·2	87·9	87·4	87·9	88·0	89·2
16	88·1	87·6	87·0	86·6	86·8	87·9	88·5	89·0	90·0	91·0	91·0	91·6	92·0	92·0	91·2	91·4	91·1	91·0	89·5	88·9	88·5	87·9	87·6	87·3	89·3
17	87·8	87·6	87·7	87·1	87·1	87·8	88·5	89·0	89·6	90·0	90·0	91·7	92·1	92·6	92·0	92·1	92·0	91·8	90·4	88·8	87·9	87·0	86·7	86·1	89·3
18	85·6	85·2	85·1	85·1	85·0	85·0	85·9	87·4	87·8	89·1	90·1	92·0	92·0	92·9	92·9	93·0	93·0	92·2	91·0	89·6	89·0	88·1	87·9	87·6	88·8
19	87·5	87·2	87·3	86·8	86·9	87·1	88·0	88·7	90·4	91·6	92·0	92·0	93·1	93·1	93·0	93·2	92·2	91·9	90·5	90·0	89·3	88·8	88·4	87·7	89·9
20	87·4	86·9	86·4	86·1	86·0	86·8	87·8	88·1	87·9	89·4	90·0	89·1	89·6	89·6	88·5	87·0	87·0	87·5	88·0	87·2	87·4	87·3	87·1	87·2	87·7
21	87·6	87·9	87·8	87·8	87·5	87·4	87·8	87·8	87·9	88·1	88·7	88·9	88·9	89·3	89·5	89·7	89·3	89·0	88·1	87·9	87·4	87·0	86·7	86·5	88·1
22	86·1	85·6	85·1	85·0	84·8	84·6	85·1	86·0	86·8	88·0	89·0	89·4	89·3	89·8	88·9	88·9	88·8	88·6	88·1	87·3	86·7	85·9	85·1	84·6	87·0
23	83·8	83·1	82·6	81·5	81·1	81·1	83·0	84·8	86·0	86·1	87·0	87·6	87·1	86·6	86·4	87·5	87·6	87·1	85·1	85·8	85·2	84·9	85·0	84·1	85·0
24	83·9	83·7	82·6	82·1	82·0	82·5	83·4	84·4	85·4	85·9	86·0	86·1	86·3	86·6	86·4	86·5	85·9	85·4	85·7	85·4	85·1	85·0	85·0	84·7	**84·8**
25	85·0	84·6	84·7	84·6	84·1	84·2	85·0	85·8	86·3	86·7	87·0	88·2	88·0	88·6	88·3	88·1	87·7	87·1	86·5	85·6	84·4	82·0	81·4	81·8	85·7
26	81·0	80·5	80·0	79 9	80·0	80·0	80·9	82·6	84·5	86·9	89·0	90·0	90·4	92·1	91·6	92·1	92·1	90·2	88·5	86·9	85·4	84·2	83·5	83·2	85·6
27	83·4	82·6	82·5	81·9	81·1	81·0	83·0	85·3	87·6	88·3	89·1	90·0	90·4	90·4	90·0	89·5	89·1	88·0	87·5	87·0	86·5	86·0	85·8	85·3	86·3
28	85 0	84 9	85 0	84·9	84·9	85·0	86·7	88·0	89·0	89·9	90·5	90·8	91·1	91·5	90·9	90·1	89·5	88·5	87·6	87·1	87·0	86·9	86·9	86·9	87·8
29	86·1	85·9	85·8	85·7	85·9	86·0	87·1	89·0	89·9	91·0	91·6	92·4	92·9	93·6	92·8	92·4	91·9	91·1	90·1	89·2	88·7	88·1	87·7	87·8	89·3
30	87·6	87·1	87·0	87·0	87·2	87·7	88·1	88·8	89·8	90·5	91·2	92·1	92·7	91·1	92·0	92·0	91·3	90·8	90·1	88·8	88·8	88·6	88·1	87·5	89·4
31	86·9	86·6	86·6	86·5	86·6	86·5	86·5	86·4	86·5	86·9	86·8	87·2	87·8	88·4	89·4	90·1	90·9	90·9	90·1	88·9	88·2	87·8	87·6	86·9	87·8
Mean ...	86·6	86·3	86·1	85·9	**85·8**	86·1	86·9	87·7	88·6	89·3	89·9	90·6	90·9	**91·4**	91·3	91·3	90·8	90·4	89·5	88·5	88·0	87·5	87·2	86·9	88·5
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

464. Richmond (Kew Observatory) : North Wall Screen : h_t (height of thermometer bulb above the ground) = 3·0 metres.

September, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	86·0	85·8	85·8	85·5	85·6	86·0	86·5	87·0	87·7	90·1	91·8	91·5	91·1	91·4	91·7	90·5	90·1	89·9	89·0	88·8	88·5	88·5	88·9	89·1	**88·6**
2	89·3	89·1	89·0	88·9	88·3	88·1	88·6	89·0	88·1	88·4	88·9	88·9	88·5	89·1	89·9	89·4	90·5	90·5	88·6	87·6	86·9	86·4	85·7	85·0	88·5
3	85·0	84·4	84·6	84·6	86·3	85·4	87·7	89·1	89·3	90·4	91·2	87·6	90·9	91·3	91·8	91·5	91·1	91·0	88·2	87·5	86·4	86·6	87·0	86·9	88·2
4	86·1	86·1	85·9	85·6	84·9	85·0	85·1	85·8	86·0	87·0	88·4	88·9	88·6	88·9	88·9	88·2	87·9	87·1	86·8	86·5	86·3	86·1	86·0	85·9	86·8
5	85·5	85·1	85·1	84·5	84·0	84·0	83·9	84·0	83·9	84·7	85·0	85·1	84·7	84·9	84·8	84·6	84·5	84·1	84·4	84·1	83·9	83·6	83·6	83·4	84·4
6	82·4	81·6	81·0	80·6	80·0	79·9	80·9	82·4	83·9	85·0	86·0	86·9	87·1	87·7	87·0	87·6	87·0	86·0	85·0	83·9	83·3	82·6	81·1	80·9	88·0
7	80·0	79·2	79·0	79·0	78·5	78·0	80·1	81·1	82·4	84·1	85·0	86·5	86·0	86·0	85·9	86·5	86·7	86·1	83·4	82·1	81·1	80·8	80·4	79·6	**82·4**
8	78·8	78·8	76·8	77·0	76·5	77·0	77·1	79·0	81·1	84·0	85·5	86·8	87·5	87·1	88·6	88·0	88·5	87·3	86·8	83·7	81·7	81·1	81·0	81·0	82·5
9	80·7	81·2	81·1	80·5	79·9	80·0	80·6	82·0	84·1	86·3	87·3	88·0	88·8	88·6	88·9	89·6	89·2	87·9	86·4	86·0	85·2	85·0	85·0	84·9	84·8
10	84·7	84·2	84·1	83·2	82·9	83·0	83·1	83·1	83·2	83·8	84·6	86·1	87·1	87·4	87·0	86·9	87·0	86·3	85·6	84·1	83·1	82·3	81·6	81·0	84·5
11	80·5	80·0	80·1	80·3	80·0	80·6	81·1	83·0	83·3	84·2	85·2	86·0	85·8	86·1	86·7	86·9	86·5	85·0	82·7	81·5	81·0	80·4	81·0	81·1	82·9
12	81·3	81·5	81·6	82·1	82·4	82·6	83·5	84·4	84·9	85·1	86·0	86·5	86·0	85·6	85·6	85·5	84·6	84·0	84·4	84·6	84·1	83·5	82·9	81·9	83·9
13	81·2	80·6	80·0	79·6	79·1	78·7	79·5	81·4	83·1	84·3	85·0	85·9	86·1	86·4	87·3	86·6	86·1	85·2	84·3	83·7	83·3	82·9	82·4	81·5	83·1
14	80·8	80·0	80·1	80·2	80·0	79·7	80·1	81·6	83·4	85·1	87·0	87·6	88·1	88·4	88·1	88·0	87·0	86·5	85·3	85·1	85·2	85·0	85·0	84·6	84·2
15	84·6	84·5	84·8	84·7	84·5	84·6	85·2	86·5	87·8	89·4	89·8	91·0	90·6	91·7	91·9	91·6	92·1	90·5	88·0	87·2	86·0	85·3	85·0	84·6	87·6
16	84·5	84·8	84·8	84·9	84·5	84·2	84·5	84·9	85·7	87·4	88·7	90·4	91·6	92·4	92·8	92·8	92·0	90·1	89·0	87·8	86·9	86·0	85·2	85·0	87·5
17	84·5	84·5	84·6	84·8	84·9	85·0	85·1	85·2	85·7	86·5	87·2	88·0	89·4	88·8	88·3	88·0	87·8	87·5	87·2	87·1	86·9	87·0	87·0	86·9	86·5
18	86·9	86·7	86·5	86·5	86·5	86·5	86·7	87·2	87·8	88·0	88·4	88·5	88·5	88·6	88·9	89·4	88·8	88·2	88·1	88·4	87·9	87·2	86·2	85·6	87·6
19	85·9	85·6	85·5	85·1	84·3	83·9	83·8	85·5	87·2	88·6	90·0	90·5	91·5	92·5	92·9	92·3	91·7	90·9	90·5	90·1	89·3	88·0	87·0	86·0	88·3
20	85·5	85·5	85·4	85·3	85·0	84·4	84·1	84·7	85·4	85·6	86·6	87·9	88·2	88·9	88·4	88·5	88·5	87·4	85·0	84·8	84·7	84·6	83·7	82·6	85·9
21	81·8	80·7	80·3	81·2	81·5	81·2	81·8	83·0	83·8	84·4	85·1	85·5	85·3	84·1	85·5	85·0	84·7	84·0	83·6	82·8	82·7	82·0	81·6	81·1	83·1
22	81·0	80·7	80·4	80·1	80·1	80·1	80·8	82·1	82·9	84·2	84·8	85·0	86·1	86·0	86·5	86·3	85·2	84·8	84·4	84·0	83·6	83·6	83·6	83·2	83·3
23	82·4	82·4	82·9	85·0	85·0	85·1	85·1	85·4	86·0	85·4	85·5	86·0	86·1	86·3	86·4	85·9	86·1	86·0	85·0	84·1	83·9	83·4	83·0	83·0	84·8
24	83·1	83·1	83·0	82·9	82·9	82·8	82·9	84·0	85·0	86·0	85·5	85·8	86·0	85·7	85·9	85·5	85·5	85·3	85·1	85·0	84·9	84·7	84·1	83·9	84·5
25	83·8	83·8	83·9	84·0	84·1	84·0	84·0	84·1	84·6	85·0	85·2	85·6	85·9	86·2	86·1	86·0	85·7	85·4	85·2	85·1	85·1	85·1	85·0	85·0	84·9
26	85·0	84·2	83·4	83·5	83·8	83·7	84·4	84·9	85·0	84·8	84·0	85·2	85·0	85·1	85·1	85·4	85·0	84·9	85·0	85·0	84·5	84·0	84·0	83·9	84·6
27	83·5	83·2	83·0	82·2	81·1	81·6	81·9	82·5	83·1	84·3	86·0	85·5	86·2	86·6	86·8	86·8	86·1	85·9	85·5	85·1	85·1	85·0	84·6	84·0	84·4
28	83·0	82·1	82·1	82·1	82·1	82·0	82·4	83·1	84·3	85·5	86·5	87·4	88·0	88·5	88·6	88·1	88·1	86·2	85·1	85·1	84·0	83·0	82·1	81·7	84·7
29	81·6	81·9	81·9	82·0	82·0	82·0	82·0	82·5	83·1	84·2	85·9	87·8	88·5	88·9	89·0	88·1	87·5	86·3	84·8	84·1	83·1	80·9	81·9	83·9	84·3
30	84·1	84·3	84·7	84·4	85·0	84·9	85·1	86·1	86·5	87·4	89·0	89·0	88·6	88·5	87·8	87·3	86·8	86·5	86·0	85·1	84·7	84·6	84·9	84·9	86·1
Mean ...	83·5	83·2	83·1	83·0	82·9	**82·8**	83·3	84·1	84·9	86·0	86·8	87·4	87·7	87·9	**88·1**	87·9	87·6	86·9	85·9	85·3	84·8	84·3	84·0	83·7	85·2

465. Richmond (Kew Observatory) : North Wall Screen : h_t = 3·0 metres.

October, 1931.

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	84·7	84·1	84·2	84·3	84·4	84·3	84·6	85·1	86·9	88·9	89·0	89·5	90·0	90·2	90·8	90·1	88·8	87·9	87·3	87·1	87·1	86·7	86·9	87·0	87·0
2	86·9	86·9	86·6	86·6	87·0	87·5	88·0	88·1	88·7	88·7	89·3	89·8	90·0	90·0	91·4	90·7	90·1	89·1	89·1	88·9	88·2	87·5	86·3	85·1	**88·4**
3	84·9	84·0	83·8	83·0	82·5	82·0	82·4	83·2	85·0	86·5	87·5	88·1	88·3	88·7	88·9	89·4	88·5	85·2	84·7	83·9	83·0	83·3	82·5	82·5	85·1
4	82·1	82·9	82·3	82·1	81·6	83·0	84·0	85·2	86·3	87·6	89·0	90·0	89·5	89·7	89·7	89·2	89·1	88·9	88·7	88·5	88·4	88·2	88·1	88·1	86·6
5	88·1	88·1	88·1	88·1	88·0	88·0	88·1	88·5	89·1	89·9	90·0	90·1	89·2	90·0	90·4	90·1	89·5	89·0	89·0	87·1	86·5	84·9	84·0	83·0	88·3
6	82·6	82·4	81·0	80·1	80·5	80·0	80·1	81·8	84·1	87·9	90·0	90·8	90·3	90·0	89·3	88·7	88·1	87·9	87·8	87·7	87·8	87·4	87·4	87·3	85·8
7	87·1	87·0	86·9	86·6	85·5	85·0	85·0	85·5	85·7	86·4	86·8	87·0	86·6	86·6	86·2	86·3	85·7	84·8	84·0	83·6	83·5	83·1	83·1	82·9	85·5
8	82·1	81·9	81·8	81·6	81·8	81·9	82·5	83·6	84·4	86·0	87·9	88·2	89·0	89·6	89·7	89·4	88·7	87·8	87·1	86·4	86·3	85·8	85·2	85·0	85·5
9	85·5	84·9	84·1	84·0	84·0	84·9	85·5	86·1	87·3	88·7	88·9	89·0	89·7	89·6	89·6	88·9	87·9	86·8	86·0	85·5	85·1	85·9	85·8	86·0	86 6
10	86·5	86·0	85·5	84·4	84·4	84·5	84·4	85·6	87·0	87·8	88·1	88·7	89·4	89·4	89·2	88·6	88·6	87·6	87·1	87·0	86·9	86·6	86·3	84·0	86·9
11	84·0	84·0	83·3	83·7	83·5	83·1	83·5	84·1	84·1	84·7	84·9	85·3	85·6	85·9	85·7	86·0	85·5	84·0	82·1	82·3	82·2	82·1	81·9	81·9	83·9
12	81·9	82·6	83·1	81·6	81·5	82·0	82·3	82·4	83·1	83·6	84·7	86·0	87·5	88·4	89·1	88·5	86·8	85·4	84·4	84·0	85·1	84·0	84·1	84·1	84·4
13	83·9	84·0	84·0	84·1	84·1	84·1	84·5	85·0	86·1	86·4	87·1	87·9	87·0	85·9	85·3	85·3	84·7	84·1	84·2	83·5	82·7	80·5	80·5	80·1	84·5
14	80·0	79·0	77·8	77·2	77·8	77·8	77·9	79·5	81·4	83·5	85·0	86·0	86·6	86·5	86·4	86·3	85·5	84·5	83·9	83·0	82·2	81·7	80·9	80·0	82·1
15	79·1	78·6	78·2	78·0	77·3	77·0	77·0	78·5	80·3	83·1	84·0	84·5	85·0	85·4	85·6	85·1	84·5	83·3	83·4	83·6	83·6	84·4	84·6	84·9	81·9
16	84·5	84·0	83·6	83·2	83·1	82·9	82·9	83·1	84·4	85·6	86·6	87·2	87·1	86·9	86·7	86·3	86·5	86·2	86·1	86·0	86·0	85·9	85·9	85·6	85·3
17	85·2	85·1	84·9	84·8	84·9	84·9	84·9	84·9	84·9	85·4	85·8	85·7	85·6	85·6	85·5	85·2	85·0	84·9	84·6	84·4	84·1	84·0	84·0	84·0	85·0
18	83·9	83·4	83·2	83·1	82·9	82·9	83·1	83·1	83·4	84·3	84·7	84·9	85·6	86·0	86·0	85·8	85·5	85·2	85·1	85·1	84·7	83·5	82·3	81·6	84·2
19	81·0	81·1	81·6	81·6	81·0	81·0	81·2	81·8	82·6	83·7	85·0	85·9	86·0	86·2	86·1	85·6	84·5	83·5	83·7	82·5	83·5	83·4	83·0	83·0	83·2
20	83·0	83·0	83·1	83·2	83·5	83·6	83·9	83·6	83·7	84·2	85·6	85·0	81·0	80·9	81·1	81·1	80·6	80·0	79·1	78·9	78·5	77·9	77·2	76·6	81·7
21	76·3	76·3	75·9	76·1	75·3	74·5	73·5	74·8	76·8	77·7	79·6	81·0	81·7	81·9	82·0	81·9	80·6	79·9	79·0	78·3	78·1	77·1	76·6	75·1	77·9
22	74·6	74·4	72·6	72·3	71·1	71·0	71·2	71·3	72·0	74·7	75·2	77·7	81·7	82·7	82·6	82·0	81·0	80·7	80·8	80·0	78·6	78·6	77·1	77·6	76·7
23	77·2	78·0	78·1	78·0	77·2	77·0	77·4	78·0	79·1	79·6	80·7	81·9	82·3	82·9	82·9	82·2	82·1	82·1	81·6	80·9	80·1	79·6	79·1	79·8	79·9
24	79·4	79·3	79·2	78·8	78·1	76·9	76·1	76·6	78·4	80·0	81·0	81·6	81·9	81·9	81·5	81·0	80·4	79·6	79·1	78·3	77·6	77·0	76·1	75·6	79·1
25	75·0	74·5	74·3	74·0	73·9	73·5	73·2	74·0	75·5	77·4	79·1	80·1	80·9	81·1	80·0	80·0	79·4	78·2	77·1	76·9	76·4	75·7	75·6	75·0	76·7
26	74·9	74·5	74·1	73·9	73·8	73·6	73·1	73·8	75·4	78·0	80·0	81·5	81·9	82·1	82·0	81·5	80·6	80·3	79·3	78·3	76·9	75·0	74·0	72·5	77·2
27	71·8	72·4	71·1	72·2	72·0	72·1	71·9	72·1	72·5	72·9	73·4	74·9	77·6	78·0	77·9	77·3	76·4	74·5	73·2	71·5	72·0	71·3	71·5	70·8	**73·4**
28	70·5	70·0	69·9	69·7	69·9	70·8	71·8	73·1	75·3	78·4	81·0	82·7	82·1	82·9	83·0	83·0	81·9	81·0	80·0	79·1	78·1	76·8	76·5	76·1	76·7
29	76·6	77·0	77·0	77·5	77·9	78·3	77·8	77·9	79·0	80·2	82·0	82·0	82·2	82·4	82·0	81·4	80·6	80·0	79·6	80·0	81·0	81·8	82·1	82·3	79·8
30	83·0	84·0	84·1	84·2	84·0	81·7	80·6	80·1	80·0	80·6	80·0	80·5	81·1	80·9	80·9	80·2	79·5	78·9	77·4	76·9	75·2	74·1	74·0	73·0	80·0
31	72·4	72·6	72·5	72·1	72·2	72·9	73·0	73·6	75·0	76·5	79·2	81·1	82·8	82·9	82·6	82·1	81·9	81·9	80·4	79·1	79·2	80·2	80·9	80·9	77·7
Mean ...	80·9	80·8	80·5	80·3	80·1	**80·1**	80·2	80·8	81·9	83·2	84·2	85·0	85·3	**85·5**	85·5	85·1	84·5	83·7	83·1	82·5	82·2	81·7	81·4	81·0	82·5
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Readings in degrees absolute at exact hours, Greenwich Mean Time.

466. Richmond (Kew Observatory) : North Wall Screen : h_t (height of thermometer bulb above the ground) = 3·0 metres.

November, 1931.

Hour. G.M.T. / Day.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	80·9	79·8	78·1	77·6	76·8	77·7	78·0	79·0	81·7	83·0	83·7	84·6	85·0	84·9	84·5	83·2	81·5	80·0	78·1	76·9	76·9	76·9	76·6	75·7	80·2
2	76·0	74·7	75·0	76·0	74·4	75·4	74·6	75·9	77·3	82·4	84·2	85·6	86·1	86·1	86·0	84·8	83·1	82·1	81·4	81·2	81·6	81·7	82·1	82·9	80·3
3	83·1	83·4	83·8	84·1	84·9	85·1	85·7	86·3	87·0	87·5	87·8	87·5	87·9	88·1	88·4	88·9	89·0	88·6	88·5	88·1	88·4	88·1	88·1	88·2	**86·8**
4	88·4	88·1	88·0	88·1	87·9	87·0	86·8	87·0	86·6	86·5	86·5	87·4	87·6	87·6	87·0	86·3	85·3	84·9	84·1	83·9	83·7	83·2	82·9	82·9	86·3
5	82·2	82·0	82·1	82·2	82·1	81·0	81·9	81·5	83·0	85·0	85·1	85·7	86·4	86·1	86·0	85·0	83·5	83·0	82·9	82·0	81·3	82·0	81·5	82·2	83·2
6	82·4	82·6	82·0	81·4	82·1	81·7	82·4	83·3	83·5	84·0	84·6	85·1	85·5	85·5	85·4	84·9	83·9	83·6	83·0	83·0	83·2	83·6	83·6	83·6	83·5
7	83·1	83·1	83·0	82·5	82·0	81·9	81·9	81·7	82·0	82·7	84·0	84·2	85·0	85·0	84·9	83·9	82·1	81·9	82·6	82·9	83·0	83·0	82·9	82·7	83·0
8	82·9	83·0	83·0	82·8	82·8	82·7	82·5	82·5	82·4	82·2	82·5	82·5	82·7	82·9	82·5	82·0	82·3	82·4	82·4	82·3	82·5	82·3	82·1	81·3	82·5
9	80·6	80·4	81·1	81·0	81·1	81·8	82·1	82·3	83·1	84·1	84·3	84·0	83·7	82·9	83·4	83·9	83·6	83·1	82·6	82·1	81·6	80·7	80·6	80·5	82·3
10	80·9	81·1	80·5	80·9	81·0	81·1	80·9	81·0	81·4	82·1	82·7	82·6	82·4	83·3	83·8	83·2	83·7	83·5	83·6	84·1	83·3	83·4	83·7	83·9	82·3
11	83·6	83·9	83·7	83·3	83·1	83·6	84·0	83·7	84·0	84·8	85·6	85·4	86·0	86·0	85·3	84·1	83·9	83·9	83·9	83·0	82·9	82·5	82·5	81·9	84·0
12	81·2	80·7	80·2	80·1	80·1	80·1	79·6	79·8	80·8	82·0	83·4	84·2	84·8	84·7	84·5	83·8	82·2	81·9	81·2	80·5	80·6	81·0	81·0	80·5	81·7
13	80·2	80·5	80·5	80·1	79·5	78·5	78·1	78·0	79·3	80·4	81·7	82·8	83·6	83·9	83·9	83·0	81·0	79·5	78·9	77·6	78·0	76·6	76·6	76·0	80·0
14	77·6	77·9	78·1	77·0	76·7	79·9	79·9	79·8	81·1	81·8	83·0	83·4	83·1	82·8	82·3	81·7	81·6	81·6	81·7	81·9	82·1	82·0	81·4	81·1	80·7
15	81·0	81·0	80·8	80·6	81·0	81·0	80·9	81·0	81·1	81·0	81·0	81·0	80·9	81·0	81·1	81·0	80·6	81·0	80·9	81·1	81·5	81·0	81·1	81·0	81·0
16	80·0	79·9	79·8	79·9	79·5	79·4	79·0	78·9	79·5	80·1	80·8	81·0	81·1	81·5	81·8	81·9	81·7	81·4	81·1	80·8	79·9	79·0	78·6	77·8	80·3
17	77·1	76·0	74·9	74·1	75·6	75·7	75·7	77·1	77·8	78·4	79·1	80·5	80·8	80·9	80·7	80·0	79·9	79·9	79·1	79·0	78·9	78·9	78·5	78·2	78·2
18	78·1	78·0	78·0	77·6	78·0	78·6	79·1	79·2	79·5	80·0	80·6	80·1	80·0	79·9	80·0	80·0	79·9	80·0	80·1	80·2	80·5	80·8	81·1	81·7	79·6
19	82·0	82·1	82·0	81·6	81·1	80·9	80·6	80·4	80·6	80·9	81·1	81·9	82·1	82·1	82·0	81·3	78·6	79·0	78·1	78·0	78·0	77·5	78·0	78·1	80·4
20	78·0	76·9	78·1	76·2	76·6	77·6	77·9	78·1	80·8	81·0	81·8	81·9	81·9	82·0	82·1	82·1	82·1	82·1	82·1	81·6	81·0	80·5	81·6	82·1	80·2
21	82·0	81·9	81·1	79·5	78·7	79·1	79·8	80·1	80·9	81·2	81·7	82·6	83·0	83·1	83·5	82·4	80·2	78·1	77·5	77·0	76·6	76·2	77·1	75·5	80·1
22	74·3	75·1	75·1	74·2	73·9	73·0	73·4	73·4	73·7	74·7	75·1	75·3	75·1	75·6	79·1	79·6	79·1	79·8	79·5	79·6	80·1	80·4	80·2	80·0	76·5
23	80·0	80·6	81·0	81·1	81·1	81·1	81·0	81·0	81·2	81·7	82·4	83·0	83·0	83·0	82·9	82·9	83·0	83·1	83·3	83·7	83·6	83·4	83·3	83·4	82·2
24	83·3	83·7	83·9	84·1	84·5	84·5	83·3	82·6	82·3	82·9	83·1	83·3	83·5	83·4	83·1	82·1	80·8	80·1	79·0	78·9	78·6	79·4	79·4	78·8	82·1
25	78·6	79·0	80·7	81·2	81·9	81·9	81·9	82·6	83·3	84·0	84·1	84·6	84·9	84·1	84·0	83·5	83·2	83·0	82·6	82·4	82·0	82·0	81·9	81·9	82·4
26	81·9	81·9	82·1	82·5	83·3	83·6	83·6	83·7	84·1	85·0	85·5	85·9	86·1	86·1	86·3	86·2	86·0	86·4	86·3	82·1	81·5	80·7	80·3	80·1	83·8
27	80·1	80·1	79·5	78·9	78·5	78·4	77·9	77·1	78·6	80·7	81·1	82·0	82·0	82·0	82·0	82·0	82·0	82·0	82·0	81·7	81·2	81·1	80·3	79·8	80·5
28	80·1	80·1	80·1	80·0	78·8	78·0	79·0	79·1	80·1	80·0	80·7	80·6	82·0	82·2	82·2	82·1	82·0	81·9	81·1	81·1	80·9	80·1	79·7	78·0	80·5
29	77·0	74·7	75·3	75·4	75·1	76·0	75·9	76·0	76·0	76·4	76·2	76·1	76·4	76·0	76·1	76·6	76·0	75·5	75·8	75·0	75·0	75·0	75·1	75·2	**75·8**
30	75·5	75·5	75·6	75·5	75·7	75·1	74·6	75·0	75·5	76·2	77·0	77·5	77·9	78·2	78·6	78·6	78·8	79·0	79·0	79·2	79·2	79·1	79·1	79·0	77·2
Mean ...	80·4	80·3	80·2	80·0	**79·9**	80·1	80·1	80·2	80·9	81·8	82·3	82·7	83·0	83·0	**83·1**	82·7	82·0	81·7	81·4	81·0	80·9	80·7	80·7	80·5	81·2

467. Richmond (Kew Observatory) : North Wall Screen : h_t = 3·0 metres.

December, 1931.

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	78·9	78·6	78·3	78·1	78·2	78·5	78·8	78·7	78·1	77·7	78·1	78·5	78·3	78·4	78·6	78·5	78·4	78·3	78·5	78·4	78·4	78·3	78·1	78·2	78·4
2	78·1	78·2	78·3	78·4	78·0	76·9	75·1	75·9	76·8	77·3	77·4	77·9	78·2	79·2	79·4	79·9	80·0	79·6	79·2	79·3	79·4	79·2	79·1	78·6	78·3
3	78·1	78·0	78·0	78·9	78·8	78·5	78·9	79·1	79·7	80·0	80·6	81·8	82·9	84·0	84·5	84·8	84·6	83·9	83·5	83·0	83·0	82·8	82·9	83·0	81·3
4	83·2	83·1	83·6	84·5	85·7	86·1	87·3	87·1	86·9	87·0	87·5	87·3	87·5	87·5	87·0	88·1	86·8	85·4	84·9	84·1	83·9	83·7	83·2	83·0	**85·6**
5	82·4	82·0	81·5	81·1	80·7	79·7	79·4	79·4	80·2	81·1	82·0	82·5	83·0	83·1	83·3	82·9	82·6	82·8	84·1	85·5	86·0	85·9	85·8	85·4	82·5
6	84·9	83·9	82·3	81·5	80·5	80·0	79·2	79·0	79·6	80·0	80·6	81·1	81·3	81·6	81·0	79·5	79·1	79·8	79·9	80·0	80·0	79·6	79·5	79·8	80·7
7	79·0	78·0	77·4	76·7	75·9	75·8	75·5	75·1	75·5	75·1	77·3	78·9	80·1	80·3	79·6	78·6	78·1	76·9	76·6	75·9	75·6	75·0	75·2	75·3	77·1
8	75·2	76·0	76·0	76·3	77·6	77·8	78·2	78·4	79·2	79·9	80·2	80·9	81·0	81·6	81·7	81·0	79·9	79·1	78·9	78·8	78·7	78·1	77·8	78·0	78·7
9	77·6	77·2	76·4	76·2	76·7	76·3	76·4	76·2	77·0	78·8	79·8	81·0	82·0	82·0	82·0	81·6	81·4	81·7	81·6	81·7	81·6	81·2	81·2	80·7	79·5
10	80·8	80·1	79·3	79·2	78·7	78·9	79·2	79·7	81·1	81·8	83·8	84·9	85·6	85·3	84·7	83·9	83·2	83·1	82·8	82·6	83·0	83·0	83·0	82·8	82·1
11	82·3	82·3	82·4	82·4	82·1	82·2	82·6	82·6	82·7	82·8	83·0	83·2	83·6	83·7	83·5	83·2	83·0	82·6	82·4	82·2	82·2	81·9	81·7	81·2	82·6
12	81·3	81·2	81·0	81·0	80·9	80·8	80·9	80·9	80·7	80·4	80·4	80·7	80·7	80·8	80·8	80·7	80·6	80·8	80·7	80·9	81·0	81·0	80·9	80·8	80·8
13	80·8	80·7	80·6	80·5	80·4	80·3	80·3	80·3	80·4	80·6	80·8	80·9	81·0	81·0	80·9	80·8	80·8	80·8	80·8	80·7	80·5	80·6	80·6	80·7	80·7
14	80·5	80·5	80·3	80·3	80·1	80·0	80·0	79·9	80·0	80·1	80·8	81·0	81·0	81·1	81·0	80·9	80·9	80·9	80·8	80·6	80·6	80·6	80·6	80·3	80·5
15	80·5	80·5	80·5	80·6	80·6	80·6	80·8	80·9	81·0	81·1	81·6	81·9	82·5	82·8	82·4	82·0	81·9	81·9	80·5	80·1	80·1	80·1	80·1	80·0	81·0
16	80·0	79·6	79·1	79·2	79·7	79·6	79·5	79·5	79·2	79·4	79·6	79·7	79·8	79·6	79·5	79·1	78·9	78·7	78·2	78·0	77·9	77·6	77·1	77·0	79·0
17	76·9	76·6	76·1	76·0	75·5	75·0	74·0	74·1	74·9	74·8	75·9	76·8	78·0	78·4	78·3	78·2	78·0	77·8	77·7	76·9	75·8	75·8	75·3	74·9	76·4
18	74·6	73·8	72·3	72·0	72·0	72·6	72·0	72·3	72·9	73·3	73·5	73·1	73·1	73·0	73·5	73·1	73·0	73·1	72·5	72·1	71·3	71·7	70·9	71·0	72·7
19	70·4	70·6	70·1	70·1	70·1	70·0	70·0	70·6	71·0	71·5	72·0	73·0	73·6	73·9	74·2	74·2	73·6	73·0	72·9	72·5	71·9	71·1	70·7	71·1	71·7
20	71·5	71·9	72·1	72·4	72·6	73·0	73·0	73·0	73·8	73·9	74·9	76·7	77·8	78·6	78·6	78·5	78·1	78·0	78·0	78·2	77·8	77·7	77·6	77·5	75·5
21	77·6	77·5	77·4	77·3	77·1	77·1	77·1	77·0	76·9	77·0	77·3	77·5	77·6	77·5	77·5	77·4	77·4	77·5	77·4	77·0	76·5	76·2	76·4	76·8	77·2
22	76·9	76·9	76·6	76·9	76·9	76·8	76·7	76·5	76·6	76·5	76·4	76·5	76·6	76·4	76·0	75·5	75·1	74·9	74·7	74·5	74·7	74·5	74·4	74·3	76·0
23	74·4	74·8	74·7	75·0	75·2	75·4	75·7	75·9	76·0	76·5	76·5	76·0	76·5	77·1	77·3	77·1	77·0	77·0	77·1	77·1	77·1	77·3	77·5	77·8	76·3
24	77·7	77·6	77·8	78·1	78·5	79·1	79·5	79·6	80·0	80·5	81·0	81·6	82·1	82·2	82·2	81·8	81·5	81·3	81·3	81·1	80·9	81·0	81·2	81·3	80·3
25	81·6	81·5	81·6	81·8	81·9	82·0	82·0	82·0	82·2	82·3	82·5	82·9	83·3	83·4	83·4	83·2	83·2	83·3	83·2	83·0	82·4	82·2	82·3	82·0	82·5
26	81·7	81·4	81·4	81·6	81·7	81·9	82·0	82·0	82·0	82·7	83·4	84·1	85·0	85·1	85·0	84·6	84·0	83·0	82·5	82·1	82·2	82·2	82·2	82·1	82·7
27	82·0	82·0	82·0	81·6	80·5	80·1	80·0	80·0	79·5	80·2	81·5	81·9	82·1	82·2	82·2	82·2	82·1	82·0	81·9	81·3	80·3	80·5	80·4	80·5	81·2
28	80·1	80·1	80·0	81·0	81·7	81·7	81·8	81·9	82·3	83·3	83·8	84·0	83·0	82·9	81·3	81·0	80·1	80·0	79·5	78·6	77·8	77·0	76·4	76·0	80·7
29	75·6	75·5	75·3	75·1	75·6	74·6	74·9	74·1	74·7	74·4	75·1	75·3	76·0	76·5	76·0	76·0	76·1	76·1	75·1	75·2	75·1	74·9	74·6	74·2	75·3
30	74·0	74·0	74·0	74·0	73·8	73·9	73·9	73·6	74·1	74·1	74·9	75·1	75·6	76·0	75·9	75·2	74·9	74·2	73·9	73·5	73·0	72·6	72·2	72·0	74·1
31	71·8	71·6	71·0	70·8	70·5	70·0	69·9	69·6	70·6	71·0	73·4	74·1	75·0	75·1	74·9	74·2	72·4	71·5	71·4	70·7	70·4	70·1	69·9	68·8	**71·7**
Mean ...	78·4	78·3	78·0	78·0	78·0	77·9	**77·9**	77·9	78·3	78·5	79·2	79·7	80·1	**80·3**	80·2	79·9	79·6	79·3	79·1	78·9	78·7	78·5	78·3	78·2	78·8
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

TEMPERATURE: ANNUAL MEANS OF HOURLY VALUES.

From readings in degrees absolute at exact hours, Greenwich Mean Time.

468. Richmond (Kew Observatory): North Wall Screen: $h_t = 3{\cdot}0$ metres. **1931.**

Hour. 1.	G.M.T. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
81·20	81·01	80·81	**80·68**	80·69	80·85	81·26	81·84	82·56	83·35	84·11	84·72	85·11	85·42	**85·45**	85·22	84·78	84·32	83·66	82·94	82·44	82·03	81·71	81·42	82·82

TEMPERATURE: MONTHLY MEANS AND DIURNAL INEQUALITIES.

The departures from the mean of the day are adjusted for non-periodic change.

469. Richmond (Kew Observatory): North Wall Screen: $h_t = 3{\cdot}0$ metres. **1931.**

Month	Mean.	Hour. 1.	GMT. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
Jan.	**276·92**	−0·66	−0·80	−0·92	−0·95	−1·05	**−1·10**	−1·03	−0·97	−0·75	−0·27	+0·31	+0·93	+1·43	+1·72	**+1·81**	+1·47	+1·06	+0·80	+0·45	+0·07	−0·14	−0·40	−0·50	−0·62
Feb.	277·29	−0·95	−1·08	−1·17	−1·31	−1·46	**−1·49**	−1·36	−1·11	−0·64	−0·02	+0·83	+1·42	+1·91	+2·24	**+2·32**	+2·04	+1·35	+0·71	+0·21	−0·15	−0·31	−0·54	−0·65	−0·79
Mar.	277·74	−1·74	−1·96	−2·16	−2·15	−2·17	**−2·20**	−2·09	−1·66	−0·73	+0·34	+1·54	+2·48	+3·05	+3·43	**+3·48**	+2·89	+2·21	+1·35	+0·46	−0·15	−0·54	−0·91	−1·26	−1·52
April	281·38	−1·73	−1·93	−2·11	−2·28	**−2·37**	−2·25	−1·66	−0·83	−0·07	+0·53	+1·14	+1·79	+2·19	+2·61	**+2·73**	+2·72	+2·33	+1·84	+0·84	+0·14	−0·35	−0·72	−1·17	−1·49
May	285·43	−2·51	−2·67	−2·94	**−3·25**	−2·98	−2·36	−1·44	−0·30	+0·56	+1·33	+1·93	+2·45	+2·77	+3·01	**+3·12**	+2·83	+2·61	+2·22	+1·35	+0·23	−0·70	−1·25	−1·86	−2·18
June	288·95	−2·49	−2·88	−3·20	**−3·45**	−3·05	−2·48	−1·62	−0·75	−0·04	+0·69	+1·52	+2·17	+2·54	**+3·20**	+3·14	**+3·20**	+2·92	+2·76	+2·14	+0·78	−0·37	−1·09	−1·61	−2·11
July	**289·48**	−2·60	−2·82	−3·01	**−3·07**	−2·84	−2·21	−1·35	−0·58	+0·29	+1·21	+1·94	+2·31	+2·69	**+2·96**	+2·94	+2·86	+2·73	+2·48	+1·72	+0·38	−0·65	−1·27	−1·79	−2·27
Aug.	288·49	−1·89	−2·14	−2·36	−2·56	**−2·67**	−2·44	−1·62	−0·74	+0·12	+0·84	+1·43	+2·13	+2·43	**+2·90**	+2·80	+2·79	+2·35	+1·91	+1·06	+0·06	−0·47	−0·96	−1·30	−1·62
Sept.	285·22	−1·80	−2·06	−2·19	−2·23	−2·38	**−2·43**	−1·98	−1·08	−0·29	+0·74	+1·62	+2·20	+2·51	+2·71	**+2·89**	+2·68	+2·40	+1·68	+0·75	+0·13	−0·42	−0·88	−1·17	−1·45
Oct.	282·49	−1·62	−1·70	−2·03	−2·20	−2·38	**−2·43**	−2·35	−1·74	−0·66	+0·69	+1·73	+2·50	+2·85	+3·04	**+3·05**	+2·68	+2·01	+1·19	+0·61	+0·08	−0·23	−0·70	−1·03	−1·42
Nov.	281·24	−0·87	−1·01	−1·02	−1·28	**−1·34**	−1·20	−1·18	−1·01	−0·31	+0·51	+1·11	+1·50	+1·78	+1·80	**+1·88**	+1·47	+0·79	+0·51	+0·19	−0·19	−0·30	−0·47	−0·51	−0·14
Dec.	278·81	−0·56	−0·70	−0·95	−0·90	−0·90	−0·98	**−0·99**	−0·96	−0·60	−0·29	+0·39	+0·89	+1·32	**+1·55**	+1·43	+1·17	+0·83	+0·59	+0·40	+0·19	−0·01	−0·17	−0·31	−0·42
Year	282·82	−1·62	−1·81	−2·01	**−2·14**	−2·13	−1·96	−1·56	−0·98	−0·26	+0·53	+1·29	+1·90	+2·29	+2·60	**+2·63**	+2·40	+1·97	+1·50	+0·85	+0·13	−0·37	−0·78	−1·10	−1·39

ABSOLUTE EXTREMES OF TEMPERATURE FOR EACH DAY.

Maximum and Minimum for the interval 0h. to 24h., Greenwich Mean Time.

470. Richmond (Kew Observatory): North Wall Screen: $h_t = 3{\cdot}0$ metres. **1931**

Month	Jan.		Feb.		Mar.		April.		May.		June.		July.		Aug.		Sept.		Oct.		Nov.		Dec.	
Day.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	76·9	72·0	80·4	77·6	78·0	72·4	81·8	**73·5**	88·5	**77·4**	91·0	84·4	96·6	84·0	95·8	85·0	92·1	85·2	91·0	84·1	85·1	75·0	79·0	77·4
2	77·9	71·9	79·2	72·4	76·7	71·1	84·8	77·7	87·6	80·5	94·1	83·3	94·4	86·8	93·8	87·6	90·9	85·0	**91·4**	85·1	86·4	73·2	80·0	75·0
3	77·1	75·0	78·4	76·1	78·9	69·6	81·8	77·9	82·0	79·1	94·2	86·6	**97·5**	84·5	96·1	88·5	92·0	84·0	89·5	81·9	**89·1**	82·8	85·0	77·9
4	77·0	73·7	76·1	72·8	79·0	75·9	85·1	76·0	87·1	77·5	95·0	85·5	95·4	86·9	**98·1**	88·9	89·1	84·8	90·0	81·5	88·6	82·8	**88·1**	83·0
5	76·9	70·8	75·7	71·5	79·2	75·0	81·9	78·1	88·5	77·9	90·0	85·1	95·1	87·7	97·3	89·6	85·9	83·4	90·5	83·0	87·0	80·2	86·0	79·1
6	76·5	70·4	76·9	74·6	76·1	71·8	83·9	79·0	92·0	79·1	93·1	85·9	94·6	85·0	93·3	88·8	88·1	79·8	90·9	79·5	85·9	81·0	85·4	78·6
7	77·2	**70·0**	79·1	71·1	74·6	70·5	84·7	79·0	89·4	81·2	90·2	85·1	95·1	82·9	94·5	86·9	87·0	78·0	87·6	82·9	85·1	81·5	80·3	74·9
8	74·0	70·4	80·5	71·2	75·0	69·5	88·9	79·1	88·6	81·8	93·3	86·2	92·0	85·0	91·6	83·6	88·9	**76·3**	89·8	81·6	83·1	81·3	81·8	75·1
9	77·1	70·5	84·0	79·9	72·6	65·6	88·3	79·7	91·1	81·0	92·7	85·0	94·4	83·9	89·1	82·3	89·8	79·6	89·9	83·9	84·5	80·1	82·2	75·9
10	76·0	70·5	83·9	76·1	74·5	**65·3**	89·5	79·4	90·0	80·1	91·1	87·7	95·1	87·9	88·8	80·9	87·8	81·0	89·6	84·0	84·1	80·4	85·7	78·7
11	79·9	75·3	81·7	75·0	77·6	71·4	**89·6**	77·0	92·4	83·0	93·9	88·1	97·0	87·2	91·0	82·3	87·0	79·9	86·4	81·7	86·1	81·9	83·7	81·1
12	9·9	77·0	79·8	75·1	79·7	71·2	~~85·5~~	~~76·5~~	91·1	83·6	95·8	87·5	97·2	87·4	94·0	86·6	86·5	81·1	89·3	81·4	84·9	79·5	81·3	80·2
13	8·3	74·3	78·9	74·9	81·0	70·4	~~79·7~~	~~76·4~~	92·0	83·9	95·8	84·1	94·1	86·8	93·2	87·9	87·3	78·4	88·0	80·0	84·1	76·0	81·0	80·2
14	5·6	71·9	78·7	73·8	83·5	74·8	~~82·5~~	~~76·3~~	90·6	83·0	97·7	86·9	93·3	86·7	89·9	85·5	88·6	79·4	86·9	77·2	83·4	75·3	81·1	79·9
15	1·5	73·9	81·6	74·0	84·4	71·7	~~82·1~~	~~79·2~~	87·0	81·4	93·2	85·5	90·5	86·6	93·9	84·9	92·4	84·4	85·7	76·5	81·5	80·5	82·9	80·0
16	**4·4**	79·7	79·1	74·8	80·2	75·6	~~81·1~~	~~78·8~~	86·8	82·5	92·1 ~~87·3~~	84·1	94·5	86·9	92·1	86·5	93·0	84·0	87·6	82·6	81·9	77·8	80·1	77·0
17	**4·4**	76·6	77·1	73·1	81·6	75·8	~~80·1~~	~~73·9~~	86·0	82·5	91·4	84·1	90·9	86·4	92·8	86·0	89·4	84·3	85·9	83·9	81·0	73·9	78·5	73·5
18	9·6	76·6	77·6	74·1	88·1	74·4	~~78·3~~	~~73·8~~	86·1	81·0	91·0	81·9	91·3	86·3	93·9	84·6	89·4	85·3	86·1	81·6	81·7	77·4	74·9	70·4
19	83·6	77·0	79·2	71·6	90·7	78·0	79·6	76·2	84·1	80·4	91·0	83·3	91·1	85·5	94·1	86·7	**93·1**	83·2	86·3	80·9	82·2	75·7	74·4	69·5
20	83·2	73·5	80·7	72·1	**91·8**	82·1	81·0	78·0	83·9	79·8	90·6	83·1	90·2	83·7	90·5	85·9	89·2	82·6	85·7	76·2	82·2	75·0	78·7	71·1
21	81·0	72·9	81·0	73·9	86·8	80·9	82·7	77·4	86·8	78·1	96·1	82·0	91·6	**82·8**	90·1	86·5	86·2	79·7	82·3	73·3	83·9	75·5	77·7	76·1
22	81·7	78·6	80·3	**70·7**	87·0	80·9	85·1	76·6	91·4	81·3	96·5	86·1	94·5	86·8	90·0	84·5	87·0	80·0	83·1	70·6	80·5	**72·9**	77·0	74·2
23	82·8	79·1	81·8	74·1	86·2	78·1	85·3	78·0	91·5	81·1	97·1	88·8	97·2	85·7	87·9	80·5	87·2	82·3	83·1	76·6	83·7	79·9	77·8	74·1
24	81·5	77·2	81·6	73·0	80·5	77·9	86·7	80·9	89·5	82·8	91·1	82·0	96·2	84·9	86·7	82·0	86·1	82·6	82·0	75·6	84·7	78·4	82·4	77·4
25	80·7	76·6	**85·1**	79·0	84·1	76·5	84·0	80·1	94·1	81·9	88·7	**80·1**	93·8	87·9	89·0	81·1	86·4	83·7	81·2	73·2	85·1	78·0	83·5	81·3
26	80·4	76·0	84·4	76·8	86·2	76·2	84·7	79·9	**96·1**	84·1	95·1	80·4	91·1	87·8	92·2	**79·6**	85·6	83·4	82·4	72·5	86·5	80·0	85·3	81·1
27	79·0	72·9	81·1	74·6	88·0	72·4	85·7	80·5	96·0	85·0	97·2	82·1	92·6	85·3	90·9	80·9	87·0	81·0	78·1	70·5	82·3	77·1	82·4	79·4
28	80·7	75·9	81·7	73·2	87·0	76·6	84·1	79·1	92·9	83·0	**98·1**	85·6	91·5	85·0	91·6	84·8	88·9	81·6	83·9	**69·4**	82·3	77·9	84·1	75·9
29	79·8	76·1	—	—	80·6	76·1	86·5	77·9	92·9	80·6	94·1	87·8	91·1	84·0	93·7	85·5	89·1	80·8	82·4	75·7	78·1	74·1	76·6	74·0
30	77·9	73·2	—	—	82·1	77·6	89·4	78·1	92·4	84·9	95·0	84·0	94·1	87·0	93·0	86·8	89·6	83·9	84·4	72·8	79·3	74·5	76·1	72·0
31	78·5	70·6	—	—	82·9	75·7	—	—	92·1	82·1	—	—	93·8	86·1	91·0	86·3	—	—	83·1	72·0	—	—	75·1	**68·8**
Mean	79·4	74·2	80·2	74·2	81·8	74·2	84·1	77·8	89·7	81·3	93·4	84·7	93·8	85·9	92·3	85·1	88·7	82·0	86·3	78·4	83·8	78·0	80·9	76·5

90·0	77·0	12
85·3	77·9	13
86·5	77·9	14
84·5	80·4	15
84·6	79·8	16
84·0	74·2	17
82·0	74·1	18

NOTE.—The initial 2 or 3 of the readings is omitted, *i.e.*, 275·0 degrees absolute is written 75·0.

Year ..	86·2	79·4

Percentages at exact hours, Greenwich Mean Time.

471. Richmond (Kew Observatory): North Wall Screen: h_t (height of thermometer bulbs above the ground) = 3·0 metres.

January, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	93	93	94	94	96	96	96	98	98	100	100	100	94	96	82	85	85	87	93	98	98	98	98	98	94·5	6·3
2	98	96	96	96	97	98	98	95	91	91	90	84	82	79	80	88	93	96	90	93	89	86	84	85	90·9	6·4
3	90	93	94	91	93	93	91	94	93	95	92	90	90	88	87	92	93	91	90	91	90	90	93	94	91·4	7·0
4	85	93	96	94	92	96	96	93	93	93	88	85	77	73	77	81	83	83	82	86	92	90	90	90	87·9	6·2
5	92	93	93	94	95	95	96	97	98	98	98	97	87	86	83	85	96	91	90	93	95	97	98	98	93·4	5·9
6	98	98	98	98	98	98	98	98	99	100	100	100	98	80	75	76	82	87	90	91	94	95	97	98	93·6	5·5
7	98	98	98	98	98	98	98	97	98	98	93	79	83	79	81	85	85	91	90	93	94	94	94	93	92·3	5·7
8	93	93	93	93	94	94	94	95	95	95	94	92	89	92	92	93	95	98	98	98	99	99	98	98	94·6	5·6
9	98	98	97	97	97	97	95	95	96	95	94	84	75	70	70	70	70	73	76	80	84	85	88	91	86·6	5·4
10	92	93	94	97	97	97	98	98	98	98	98	96	96	94	96	100	100	94	98	96	96	96	96	96	**96·3**	6·2
11	96	94	94	94	96	94	94	96	98	97	94	95	91	88	90	91	93	94	96	97	97	97	97	97	94·5	8·1
12	93	91	91	94	96	97	97	97	96	94	79	80	86	84	84	84	86	82	83	86	87	85	87	85	88·7	8·2
13	85	85	88	86	90	90	90	85	82	84	85	81	80	80	81	69	64	72	76	82	84	85	84	83	82·2	6·5
14	80	80	80	80	80	80	79	79	78	74	69	66	63	63	62	64	65	66	64	66	68	68	68	80	71·8	**4·8**
15	90	87	85	85	88	94	89	93	90	92	90	87	91	87	94	94	93	93	94	96	90	86	85	81	89·7	7·8
16	78	81	79	80	83	83	87	87	87	88	88	91	88	87	84	82	80	83	82	87	84	79	76	60	83·1	9·3
17	49	58	57	61	60	64	61	60	64	76	84	74	66	63	58	57	60	59	61	66	68	73	72	70	**64·0**	6·1
18	72	72	69	70	73	74	74	76	70	71	69	65	80	69	74	75	78	79	86	92	95	95	95	97	77·4	6·6
19	98	96	96	94	90	94	90	89	91	87	86	87	87	88	88	88	88	92	92	94	98	98	97	98	91·9	**10·1**
20	96	95	98	98	96	94	96	98	99	96	93	91	91	88	88	92	80	74	78	99	98	100	98	98	93·1	9·8
21	98	100	98	100	100	100	98	95	95	97	99	91	89	86	85	89	89	90	93	94	93	93	98	98	94·5	8·8
22	94	96	94	94	91	91	90	91	91	91	88	83	87	89	92	96	98	98	87	83	83	85	83	86	90·3	9·3
23	86	81	83	86	90	90	94	93	92	89	91	93	92	96	91	94	96	92	94	93	77	73	74	70	88·3	9·8
24	73	78	80	75	75	83	83	83	79	71	65	61	59	58	55	59	63	71	72	69	68	65	69	78	70·3	6·7
25	72	81	84	85	87	81	74	79	76	71	68	63	61	58	57	56	60	66	72	76	77	82	92	86	73·3	6·6
26	78	78	80	73	81	77	77	75	74	79	67	69	57	58	57	57	60	66	70	76	74	77	77	80	71·7	6·2
27	81	85	82	82	90	90	96	96	96	84	81	79	72	70	70	69	73	76	78	86	92	90	96	97	83·4	6·5
28	99	94	97	91	87	76	75	80	76	70	67	67	66	62	62	64	62	65	69	72	76	82	87	92	74·7	7·0
29	93	94	95	94	94	89	87	92	87	81	78	79	76	74	78	74	87	87	86	87	90	90	92	94	86·5	7·6
30	92	90	82	79	74	76	70	72	72	72	89	87	85	86	90	87	82	78	80	78	77	82	85	88	81·5	6·3
31	90	91	94	95	96	98	98	98	98	99	87	70	63	66	70	73	82	90	93	88	92	92	95	93	87·8	6·1
Mean ...	88·1	88·9	89·0	88·7	89·5	**89·6**	89·0	89·5	88·7	87·9	85·9	82·8	80·7	78·6	**78·5**	79·7	81·3	82·7	84·0	86·7	87·1	87·3	88·5	88·8	85·9	†7·0
Vapour Pressure* ...	mb. 6·8	mb. 6·8	mb. 6·7	mb. **6·7**	mb. 6·7	mb. 6·7	mb. 6·7	mb. 6·7	mb. 6·8	mb. 7·0	mb. 7·1	mb. 7·2	mb. **7·2**	mb. 7·2	mb. 7·2	mb. 7·1	mb. 7·1	mb. 7·1	mb. 7·0	mb. 7·0	mb. 7·0	mb. 6·9	mb. 7·0	mb. 6·9	mb. ‡6·9	

472. Richmond (Kew Observatory): North Wall Screen: h_t = 3·0 metres.

February, 1931.

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	94	96	99	96	96	96	99	96	96	93	93	94	94	96	94	90	89	86	85	82	78	82	81	74	91·2	8·5
2	81	84	85	90	96	97	98	98	95	82	85	83	76	63	63	62	63	69	73	79	77	85	90	93	81·6	6·2
3	93	96	95	92	87	90	90	85	85	84	81	81	82	72	68	72	78	78	82	84	75	75	75	75	82·7	6·7
4	77	79	79	80	80	81	83	84	85	83	74	70	68	74	66	69	74	80	77	85	87	89	91	93	79·1	5·6
5	94	97	98	97	96	96	98	99	99	98	95	85	75	72	65	71	73	74	75	74	72	72	71	68	84·5	5·3
6	65	71	71	75	72	75	72	70	75	84	87	85	80	80	82	82	82	81	81	82	82	89	91	91	78·9	5·9
7	91	91	91	93	94	94	96	98	96	95	93	92	86	76	80	82	89	93	100	100	96	98	100	100	92·5	6·7
8	100	100	98	98	98	98	97	95	94	90	85	86	83	83	85	88	88	87	88	98	98	100	98	99	93·1	7·5
9	100	99	98	100	100	99	100	100	99	99	95	98	94	92	93	92	93	95	95	95	95	94	92	91	**96·3**	**11·2**
10	92	96	93	91	91	92	92	89	93	93	86	71	57	50	48	54	58	64	65	68	73	75	77	83	77·3	8·3
11	83	81	82	84	89	85	87	87	85	83	72	71	66	71	85	89	89	92	93	81	72	68	77	78	81·4	7·4
12	80	73	73	82	63	62	62	62	65	57	51	47	42	41	46	46	59	59	63	65	68	74	74	80	**62·2**	5·2
13	82	75	80	79	80	79	78	77	68	69	69	63	60	57	50	47	54	55	58	59	60	57	62	63	66·3	5·2
14	62	62	63	64	65	66	64	62	63	57	54	56	54	49	50	55	61	63	69	76	78	74	74	76	62·9	**4·7**
15	82	79	77	77	87	89	91	91	94	92	87	86	84	65	60	61	65	66	72	79	79	84	90	87	80·0	6·6
16	84	84	85	85	86	85	83	82	84	71	65	55	51	49	57	71	76	91	91	91	87	85	87	89	78·0	6·5
17	89	87	86	83	85	85	87	90	92	90	94	89	84	80	67	69	74	77	78	85	85	82	82	85	83·6	5·8
18	87	83	84	85	83	82	82	82	84	85	83	80	68	65	75	79	79	85	85	87	86	90	91	88	82·4	5·9
19	91	96	89	85	87	85	87	89	83	85	76	73	70	67	70	73	74	82	94	96	98	100	99	99	85·1	6·4
20	99	99	99	99	99	100	97	93	87	86	81	79	78	82	81	87	91	91	91	93	96	98	94	93	91·5	7·5
21	93	91	85	88	87	89	91	88	83	78	73	56	52	45	43	47	43	51	56	58	66	69	73	77	70·4	6·4
22	81	85	87	89	91	93	95	95	93	85	77	75	67	61	59	62	71	74	83	85	89	93	93	93	82·0	6·0
23	93	96	93	93	94	98	94	96	93	92	83	72	64	63	67	64	70	71	78	77	80	84	91	91	83·3	6·9
24	95	96	96	98	100	96	96	96	98	95	86	75	65	62	68	65	69	74	74	78	78	77	75	79	83·2	6·9
25	81	83	84	87	87	91	91	90	90	89	84	84	79	79	79	80	82	80	82	89	89	85	87	87	84·8	10·1
26	87	88	89	89	86	87	87	86	84	82	84	90	95	87	84	83	87	83	61	56	56	60	62	69	80·5	9·2
27	76	75	78	79	80	84	82	80	81	71	63	59	62	59	59	69	76	84	90	93	94	94	94	99	77·7	6·6
28	98	96	87	85	83	84	82	82	80	81	70	85	80	77	57	62	68	79	79	77	86	73	74	77	79·7	6·2
Mean ...	86·8	87·1	86·6	87·3	87·2	87·8	**87·9**	87·2	86·6	83·9	79·5	76·4	72·0	68·5	**67·9**	70·4	74·1	77·3	79·2	81·1	81·4	82·4	83·7	84·9	81·1	†6·8
Vapour Pressure* ...	mb. 6·8	mb. 6·8	mb. 6·7	mb. 6·6	mb. **6·6**	mb. 6·6	mb. 6·7	mb. 6·7	mb. 6·9	mb. 7·0	mb. 7·0	mb. **7·0**	mb. 6·8	mb. 6·6	mb. 6·6	mb. 6·7	mb. 6·7	mb. 6·7	mb. 6·6	mb. 6·6	mb. 6·6	mb. 6·6	mb. 6·6	mb. 6·6	mb. ‡6·7	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	

* Computed from the mean temperatures and the mean relative humidities. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

473. Richmond (Kew Observatory) : North Wall Screen : h_t (height of thermometer bulbs above the ground) = 3·0 metres.

March, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon.	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	80	86	93	94	96	96	91	86	81	72	66	56	51	48	44	53	60	62	71	73	74	71	66	64	72·5	4·9
2	64	66	71	74	78	80	80	80	75	73	72	69	65	63	62	65	65	70	81	82	88	92	93	93	74·4	4·7
3	95	96	98	99	98	98	95	94	86	70	65	62	61	61	60	60	61	55	59	78	86	85	87	85	79·1	5·5
4	85	77	82	87	85	82	73	77	74	69	66	66	62	64	64	66	66	68	69	67	67	67	68	68	72·0	5·9
5	64	69	70	74	75	78	78	79	73	66	60	57	62	59	59	62	54	62	68	73	73	70	71	68	67·7	5·4
6	66	64	66	64	53	56	55	56	58	57	55	55	53	52	51	48	57	61	57	56	56	54	56	65	57·2	3·9
7	61	57	54	55	57	57	57	59	65	63	63	63	57	44	44	48	51	53	54	54	53	50	50	50	55·3	**3·2**
8	51	55	55	57	58	58	58	60	66	66	62	57	52	50	50	49	51	53	55	62	68	73	77	80	58 7	3·5
9	84	88	92	92	92	93	88	86	80	75	74	81	95	85	70	59	72	75	92	95	90	92	93	95	**84 6**	3·9
10	96	95	95	94	94	93	93	91	83	76	73	66	62	58	54	90	87	83	81	84	84	83	86	88	83 0	4·0
11	86	87	85	86	86	89	86	79	72	68	65	59	59	54	53	56	48	44	46	53	58	63	63	66	67·6	4·8
12	68	68	70	70	73	77	79	79	69	65	62	51	42	40	35	36	40	48	49	60	70	80	80	83	61·9	4·5
13	86	87	88	89	90	94	95	95	85	80	60	51	52	44	50	49	57	56	64	68	73	79	82	83	73·2	5·5
14	84	85	85	80	81	78	85	84	81	72	64	60	42	45	40	45	39	50	63	77	82	85	91	91	70·2	6·4
15	96	94	95	96	96	96	96	96	96	95	84	72	58	46	47	48	55	60	61	69	78	82	90	90	79·0	6·5
16	88	86	85	87	90	88	88	83	79	72	58	56	55	51	45	51	55	66	69	72	74	66	68	67	71·3	6·0
17	69	70	73	73	74	74	74	73	66	59	52	52	52	51	55	57	61	66	69	73	77	78	78	83	66·7	5·8
18	77	75	79	79	75	78	77	74	68	68	61	57	51	51	49	54	60	65	70	76	79	83	89	92	70 1	7·4
19	92	94	96	97	97	96	99	96	87	75	57	56	49	47	47	49	55	61	63	69	68	67	73	73	73·8	10·0
20	73	79	80	78	81	79	78	76	69	63	59	52	51	51	45	48	53	55	58	59	61	66	73	74	65·0	10·0
21	73	68	71	76	76	81	87	79	75	71	74	72	72	74	75	74	74	75	79	82	84	88	89	90	77·1	**10·7**
22	91	91	92	91	93	93	92	87	87	81	73	64	62	53	56	64	74	75	82	83	88	88	93	93	81·0	9·8
23	96	99	94	96	96	98	91	92	87	86	80	80	74	74	66	69	54	63	57	64	72	79	86	92	81·1	9·7
24	94	87	84	87	77	83	79	86	90	84	78	79	74	80	81	76	84	84	84	83	86	88	87	89	83·5	7·9
25	92	89	89	89	87	87	89	87	87	86	81	78	68	63	65	64	68	72	81	84	82	80	78	78	80·4	7·6
26	77	78	77	78	80	84	82	83	78	77	72	63	58	54	53	57	58	66	62	71	76	84	89	93	72·6	7·2
27	93	93	94	98	96	96	98	96	97	97	82	51	43	28	25	33	41	44	61	63	64	71	79	84	72·2	7·2
28	79	83	84	85	84	89	88	86	78	59	53	44	52	54	61	62	71	75	74	69	68	62	64	60	70·7	7·3
29	60	65	64	64	66	64	58	63	56	46	36	32	32	31	29	26	30	46	50	51	49	51	48	42	48·7	4·3
30	43	47	48	50	52	53	55	54	48	36	29	26	25	25	28	44	49	56	61	64	66	69	65	67	**47·8**	4·5
31	66	66	59	61	62	58	58	57	43	40	41	40	34	41	44	48	56	57	59	61	61	60	57	55	53·7	4·8
Mean ...	78·3	78·8	79·6	80·7	80·6	**81·5**	80·7	79·8	75·5	69·9	63·8	58·9	55·7	52·9	**51·8**	55·2	58·3	62·1	66·1	70·2	72·7	74·4	76·4	77·5	70·1	†6·2
Vapour Pressure* ...	mb. 5·9	mb. 5·8	mb. 5·9	mb. 5·9	mb. 5·9	mb. 6·0	mb. 5·9	mb. 6·1	mb. 6·1	mb. **6·1**	mb. 6·1	mb. 6·0	mb. 5·9	mb. 5·8	mb. **5·6**	mb. 5·8	mb. 5·8	mb. 5·8	mb. 5·8	mb. 6·0	mb. 6·0	mb. 6·0	mb. 6·0	mb. 6·0	mb. ‡5·9	

474. Richmond (Kew Observatory) : North Wall Screen : h_t = 3·0 metres.

April, 1931.

	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	55	55	57	62	64	64	60	42	25	23	20	17	23	21	22	39	45	45	47	49	53	50	53	59	**43·7**	**3·8**
2	65	67	71	84	87	89	92	92	91	90	98	90	89	86	80	76	74	84	95	92	95	95	95	95	85·6	9·0
3	95	96	96	99	96	96	94	91	90	90	93	96	93	90	88	91	90	88	90	91	92	86	86	88	**92·0**	9·0
4	83	82	76	79	80	79	72	70	57	58	51	50	49	50	47	51	54	57	65	67	77	77	78	84	66·5	6·8
5	82	85	83	81	82	86	84	84	79	84	87	86	82	83	86	86	87	92	90	93	98	94	96	94	86·6	8·8
6	93	96	94	94	98	99	100	99	89	85	82	79	73	73	75	78	89	84	80	76	76	72	78	83	85·4	9·0
7	84	85	87	87	86	86	86	88	87	89	87	83	86	83	81	82	84	84	89	89	89	91	92	94	86·4	9·5
8	90	91	90	93	94	98	94	89	85	74	80	80	73	66	63	64	68	61	69	75	79	82	86	88	80·6	10·3
9	91	92	91	98	98	98	99	86	84	88	80	83	78	74	76	76	75	79	88	88	88	85	84	84	86·0	**11·7**
10	86	85	88	90	84	84	89	82	72	73	66	61	53	46	42	39	43	43	60	79	78	85	88	90	71·0	9·8
11	93	96	96	96	96	98	97	88	88	79	74	66	62	56	59	59	58	56	68	71	75	71	79	85	77·9	9·6
12	85	88	87	91	89	90	87	65	57	50	44	40	43	52	60	64	69	88	87	80	74	72	70	74	71·3	8·8
13	76	78	74	80	76	75	72	65	61	50	46	43	41	40	34	37	41	42	53	57	60	57	69	72	58·3	6·3
14	72	76	72	70	70	73	76	74	71	67	63	60	62	62	59	56	55	59	62	73	75	74	78	78	68·1	8·3
15	83	82	79	76	79	78	81	79	75	72	71	71	70	69	69	67	71	80	83	83	88	89	82	82	77·4	9·2
16	86	89	85	88	90	90	86	85	83	86	85	79	73	68	65	61	50	54	56	62	67	70	71	73	75·3	8·4
17	87	91	88	90	88	93	88	69	61	58	47	61	79	58	42	41	63	57	76	82	87	90	87	91	73·5	7·4
18	89	88	86	85	93	91	84	84	85	80	74	56	58	56	64	55	65	82	79	83	84	81	88	84	78·2	6·6
19	82	85	90	87	87	82	83	78	86	78	84	87	85	85	86	83	83	85	86	86	86	86	89	86	84·7	7·3
20	83	80	85	85	83	84	83	83	82	80	82	83	80	85	81	76	76	78	86	86	87	87	89	86	82·9	7·7
21	86	86	87	87	84	79	78	73	77	69	66	61	63	55	56	63	58	63	57	75	77	78	80	84	72·6	7·2
22	83	85	87	90	90	88	84	78	65	60	58	56	55	55	58	54	65	68	70	81	80	82	83	83	73·3	7·8
23	83	85	85	88	83	84	79	73	75	84	78	69	56	57	58	56	56	61	65	67	71	77	80	77	72·9	8·2
24	78	76	75	79	84	86	82	76	71	67	66	67	61	72	64	75	87	88	84	83	82	86	88	89	77·5	9·6
25	88	87	89	88	86	86	84	86	86	89	87	72	73	80	85	86	89	93	83	86	88	89	93	91	86·0	9·6
26	90	88	90	89	90	88	88	79	73	85	77	82	75	70	69	69	71	74	90	89	88	90	93	89	82·8	9·6
27	86	86	85	86	89	81	79	76	74	69	56	56	73	59	61	71	61	56	52	54	65	62	65	59	69·8	8·3
28	61	65	69	71	72	71	74	71	61	63	58	62	62	68	77	79	79	74	74	78	78	79	80	84	70·7	7·8
29	88	85	84	85	81	83	81	79	79	79	82	74	73	68	66	61	55	56	70	72	74	84	84	88	76·2	8·6
30	91	89	91	96	94	94	88	86	72	64	59	57	49	47	51	45	46	45	52	62	65	73	76	82	69·9	9·0
Mean ...	83·1	84·0	83·9	**85·8**	85·8	85·8	84·1	79·0	74·7	72·8	70·0	67·6	66·4	64·5	**64·1**	64·7	66·9	69·2	73·5	77·0	79·2	79·8	82·0	83·2	76·1	†8·4
Vapour Pressure* ...	mb. 8·1	mb. 8·1	mb. **8·0**	mb. 8·1	mb. 8·0	mb. 8·1	mb. 8·2	mb. 8·2	mb. 8·2	mb. 8·3	mb. 8·3	mb. 8·4	mb. 8·5	mb. 8·5	mb. 8·5	mb. 8·5	mb. 8·6	mb. **8·7**	mb. 8·6	mb. 8·6	mb. 8·6	mb. 8·4	mb. 8·4	mb. 8·3	mb. ‡8·3	
Hour G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	

* Computed from the mean temperature and mean relative humidity. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

475. Richmond (Kew Observatory) : North Wall Screen : h_t (height of thermometer bulbs above the ground) = 3·0 metres.

May, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	81	86	88	90	87	87	87	79	69	62	62	52	46	48	50	51	60	65	70	71	76	77	79	84	71·1	8·9
2	87	88	92	93	93	93	88	84	68	60	64	57	53	57	58	58	61	65	62	61	66	64	70	74	71·7	9·6
3	81	82	84	84	83	84	80	78	74	73	75	83	83	85	86	85	86	84	86	83	86	83	82	79	81·9	8·3
4	78	76	72	63	64	74	76	61	58	58	52	53	41	39	37	58	59	63	65	73	76	81	79	84	**64·0**	7·3
5	86	86	88	89	91	99	88	78	76	68	65	67	57	63	56	53	55	54	58	67	70	74	80	74	72·8	9·1
6	83	77	89	90	81	75	68	54	50	49	40	38	38	41	36	38	47	53	57	65	68	72	86	87	61·5	9·4
7	92	87	87	87	87	80	78	70	67	61	52	55	57	52	54	55	48	50	62	73	77	83	81	83	70·0	9·8
8	84	84	86	89	88	91	93	94	91	84	73	63	52	53	59	53	54	53	77	75	71	75	79	76	75·0	10·2
9	76	74	66	72	77	77	77	73	67	63	63	56	53	50	45	44	43	46	55	53	82	82	88	86	65·1	9·3
10	89	88	93	94	91	86	81	78	73	64	60	56	54	58	59	65	68	73	76	77	80	82	83	85	75·6	10·9
11	86	86	85	84	84	81	80	75	71	70	73	72	64	60	59	58	65	67	73	76	80	85	88	89	75·4	12·0
12	90	92	91	93	93	90	87	74	70	68	69	63	69	63	64	62	58	61	67	73	80	84	87	89	76·5	12·6
13	87	86	84	90	86	84	78	77	72	70	65	63	55	52	57	61	58	59	67	74	75	82	84	84	73·0	11·8
14	85	86	87	84	85	82	73	68	63	63	56	53	54	52	52	54	56	54	68	72	73	76	83	84	69·3	10·8
15	86	88	91	93	92	87	84	83	81	82	86	75	74	81	87	80	75	73	78	75	83	87	88	89	83·1	11·4
16	90	93	92	92	90	89	86	83	80	77	77	78	82	87	88	91	92	87	87	92	91	94	94	94	87·6	11·9
17	95	95	95	98	98	94	94	93	94	90	88	91	85	88	86	83	88	87	84	86	87	86	82	83	**89·8**	11·5
18	84	87	87	87	86	87	93	91	87	79	78	78	79	71	68	75	75	74	77	84	78	79	81	85	81·2	9·9
19	85	83	79	79	80	77	70	70	62	62	56	58	54	56	53	58	61	62	67	70	73	73	73	68	68·3	8·0
20	67	70	70	70	72	72	63	62	55	58	58	60	60	59	57	58	57	56	55	56	55	58	60	61	61·3	**6·8**
21	66	68	74	77	77	72	62	63	63	63	64	61	61	64	64	69	71	75	75	84	91	93	95	96	72·1	8·6
22	98	99	98	96	96	95	97	87	85	87	75	73	68	57	58	57	53	43	49	59	79	83	86	87	77·9	11·1
23	87	76	70	70	70	75	78	71	71	68	68	68	75	88	91	92	95	91	90	94	95	95	95	97	81·9	12·2
24	99	98	97	99	99	97	99	95	88	90	89	80	74	67	64	60	64	68	72	79	82	88	91	89	84·7	12·8
25	89	89	94	98	96	88	85	75	72	59	59	54	48	48	51	46	44	46	53	61	68	71	73	81	68·8	12·2
26	90	93	91	92	94	91	75	63	60	56	53	55	53	53	57	56	60	64	63	56	76	77	79	81	70·3	13·9
27	86	88	89	95	89	82	72	59	58	52	57	51	55	60	62	62	65	67	70	74	81	80	84	85	71·7	**14·5**
28	88	89	91	90	88	93	97	92	93	90	88	84	74	65	61	59	59	55	51	63	70	73	78	84	78·2	14·0
29	82	87	88	89	86	74	73	60	59	59	56	68	78	72	66	63	59	54	62	72	81	82	89	85	72·6	11·8
30	81	83	83	83	83	82	77	75	68	62	57	53	56	55	61	76	69	71	76	81	84	82	90	90	74·0	12·8
31	90	92	94	95	98	93	83	79	71	64	65	60	59	57	56	56	59	65	69	74	75	77	81	85	75·0	12·5
Mean ...	85·4	85·7	86·3	**87·3**	86·6	84·9	81·3	75·6	71·5	68·1	65·9	63·8	61·7	**61·3**	61·3	62·5	63·3	64·0	68·4	72·7	77·7	79·9	82·8	83·8	74·2	†10·8
Vapour Pressure* ...	mb. 10·4	mb. 10·3	mb. 10·2	mb. **10·1**	mb. 10·2	mb. 10·4	mb. 10·6	mb. 10·7	mb. 10·7	mb. 10·7	mb. 10·7	mb. 10·8	mb. 10·7	mb. 10·8	mb. 10·9	mb. **10·9**	mb. 10·9	mb. 10·7	mb. 10·8	mb. 10·7	mb. 10·8	mb. 10·7	mb. 10·7	mb. 10·5	mb. ‡10·6	

476. Richmond (Kew Observatory) : North Wall Screen : h_t = 3·0 metres.

June, 1931.

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	88	85	87	87	93	87	89	86	83	71	74	70	76	69	69	57	70	67	71	75	82	85	89	91	79·1	12·5
2	90	91	88	90	90	89	81	78	74	73	64	58	57	57	53	53	63	65	61	64	69	77	85	87	73·3	12·9
3	86	87	87	85	86	86	81	78	74	70	67	65	64	65	64	62	59	56	61	73	80	79	81	84	74·2	14·1
4	90	94	94	95	93	91	85	84	80	76	72	68	63	59	60	62	57	58	63	80	83	82	86	85	77·5	14·6
5	85	86	83	82	81	82	81	74	72	61	62	66	64	64	79	88	83	87	83	83	83	80	82	88	78·3	12·2
6	90	94	98	95	95	91	90	79	74	70	64	59	55	55	60	56	56	57	64	74	76	78	82	81	74·8	13·7
7	88	88	89	89	88	82	77	71	84	84	80	75	73	70	76	75	82	88	88	94	95	95	93	94	83·8	13·8
8	93	90	86	86	86	85	84	77	70	66	60	60	58	55	62	65	68	71	71	78	80	84	84	85	75·4	13·8
9	87	88	93	94	94	91	91	90	89	85	83	79	75	72	74	76	76	80	82	83	84	86	87	88	84·4	14·9
10	88	87	88	88	87	86	84	80	84	80	84	90	86	85	86	83	79	89	86	83	84	84	82	84	**85·0**	15·6
11	87	87	87	85	86	82	80	78	76	75	75	72	68	70	73	73	78	81	81	80	83	86	88	88	79·9	**15·9**
12	88	89	89	90	89	89	85	85	82	76	69	63	62	55	55	53	57	55	57	63	69	77	82	85	73·5	15·6
13	88	90	90	93	95	91	81	77	80	74	71	68	65	63	59	62	62	61	71	75	77	82	83	80	76·7	15·0
14	79	83	85	88	88	85	82	77	75	73	68	68	71	67	73	67	64	52	52	60	64	71	81	84	73·1	15·5
15	82	80	75	75	72	68	61	57	56	51	56	53	52	46	57	56	52	52	54	62	68	74	77	83	63·3	11·4
16	84	86	84	84	83	76	69	66	61	60	59	56	55	57	60	65	63	63	67	69	73	74	76	78	69·6	12·5
17	81	82	82	82	80	83	93	90	83	69	66	56	64	53	46	53	53	59	61	71	76	86	82	81	72·1	12·4
18	84	87	88	91	85	79	77	72	65	60	56	53	81	73	73	76	64	65	69	73	78	77	77	77	74·3	11·8
19	78	88	89	92	88	90	80	77	74	75	77	80	68	64	62	72	81	82	89	87	93	94	93	93	82·0	12·9
20	91	92	92	90	84	86	86	82	76	75	67	69	62	54	52	55	44	49	57	73	81	84	85	86	74·0	11·4
21	88	88	88	92	85	82	76	72	69	69	69	68	69	69	61	57	63	59	58	69	72	79	82	83	73·7	13·8
22	88	92	91	94	90	89	87	82	78	73	67	60	58	58	59	59	61	63	59	69	72	74	76	79	74·2	15·7
23	77	76	80	82	84	82	78	70	70	69	70	63	61	60	60	54	55	59	63	70	81	79	80	80	70·9	15·6
24	82	85	86	84	84	88	83	83	88	88	87	86	85	77	71	69	67	65	65	62	63	70	73	78	77·9	12·7
25	82	86	85	84	81	79	68	63	62	55	55	52	53	54	57	54	51	53	55	61	68	72	76	76	66·0	**9·2**
26	81	87	89	92	92	89	78	68	65	60	57	55	53	51	49	49	47	45	51	55	77	83	89	90	68·5	12·0
27	92	92	92	96	94	83	77	68	61	55	53	51	47	48	46	42	39	39	41	48	67	69	74	75	64·8	13·0
28	78	84	88	89	91	91	91	86	78	74	71	69	63	64	60	63	56	52	53	59	70	74	78	82	73·4	15·4
29	87	82	80	67	64	66	65	55	50	52	48	50	49	49	48	45	44	45	47	51	56	59	61	60	**58·0**	11·5
30	64	68	73	78	77	75	66	64	64	57	56	47	46	49	46	46	50	53	59	61	65	69	83	82	62·0	11·6
Mean ...	84·9	86·5	86·9	**87·3**	86·2	84·1	80·2	75·6	73·2	69·6	66·9	64·3	63·4	**61·1**	61·7	61·6	61·5	62·3	64·6	70·2	75·6	78·8	81·6	82·9	73·8	†13·4
Vapour Pressure* ...	mb. 13·1	mb. 13·0	mb. 12·8	mb. **12·7**	mb. 12·8	mb. 13·0	mb. 13·1	mb. 13·1	mb. 13·2	mb. 13·2	mb. 13·4	mb. 13·4	mb. 13·5	mb. 13·5	mb. **13·6**	mb. 13·6	mb. 13·4	mb. 13·4	mb. 13·4	mb. 13·4	mb. 13·4	mb. 13·4	mb. 13·2	mb. 13·1	mb. ‡13·2	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	

* Computed from the mean temperatures and mean relative humidities. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

477. Richmond (Kew Observatory) : North Wall Screen : h_t (height of thermometer bulbs above the ground) = 3·0 metres.

July, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	87	87	89	88	93	88	77	63	60	59	51	47	47	42	46	44	49	47	55	59	67	71	74	74	**65·3**	13·1
2	78	76	72	77	80	78	76	76	70	79	74	72	68	68	69	71	69	68	73	80	83	88	89	77	75·4	14·6
3	84	85	90	89	89	83	80	78	72	70	64	61	60	59	58	53	51	51	55	65	77	80	84	85	71·6	14·5
4	87	86	88	89	90	88	85	86	80	70	69	64	69	70	76	76	79	81	82	82	82	83	82	85	80·4	**16·4**
5	86	87	90	91	93	91	83	82	91	83	77	70	64	58	62	61	62	72	70	75	79	82	87	88	78·5	16·1
6	92	91	93	93	93	91	94	92	79	71	60	63	53	53	52	48	50	49	51	59	71	78	85	89	72·9	13·5
7	89	89	93	92	90	88	82	77	69	56	57	41	41	40	39	50	51	56	59	65	72	76	77	79	68·0	12·4
8	81	82	86	84	86	82	78	74	70	60	61	66	57	60	60	64	67	69	69	69	68	73	74	78	71·6	12·4
9	82	83	87	85	84	74	71	58	56	52	52	50	46	52	54	62	65	65	60	68	76	79	84	86	67·8	12·7
10	86	86	86	86	81	82	81	75	67	66	71	71	75	77	64	57	57	59	61	75	80	83	84	84	74·8	15·3
11	88	88	87	87	85	82	77	76	72	63	62	55	53	51	54	57	57	52	54	61	71	73	77	82	69·4	14·8
12	82	78	78	69	74	76	76	73	73	69	56	59	60	57	60	59	60	59	70	73	76	76	81	82	69·8	15·4
13	84	85	88	88	84	88	79	84	73	75	67	64	61	59	66	66	66	54	51	65	74	82	81	84	73·6	14·5
14	85	90	87	90	86	82	77	68	75	66	66	66	63	62	63	63	80	80	90	91	92	92	96	96	79·2	14·6
15	96	97	98	95	93	93	93	95	88	79	80	84	79	76	76	75	72	76	88	89	90	90	91	91	**87·0**	15·0
16	92	90	88	90	88	85	81	79	73	59	56	57	59	55	48	47	54	52	61	63	75	76	78	83	70·5	13·5
17	85	87	85	85	83	83	81	74	64	58	56	60	61	77	81	83	89	90	92	92	92	91	91	89	80·3	14·1
18	85	77	81	77	78	80	76	70	66	68	66	67	71	70	68	64	69	66	71	75	82	85	82	87	74·3	13·4
19	88	87	89	93	92	90	84	82	81	72	88	81	71	66	60	63	70	64	74	84	86	88	88	85	80·3	13·5
20	90	91	89	89	89	82	77	78	75	68	62	66	66	67	54	53	83	86	89	90	89	75	79	79	77·9	12·1
21	82	82	84	87	88	87	80	71	61	59	58	57	50	48	45	49	45	53	63	69	75	73	75	77	67·5	**11·1**
22	78	78	78	80	85	84	86	82	78	74	68	67	65	65	67	65	68	62	55	66	72	78	83	85	73·5	14·4
23	87	90	90	91	90	87	81	74	66	63	62	55	55	55	49	51	51	53	57	65	74	81	81	86	70·5	14·7
24	83	89	82	90	90	85	76	77	71	63	61	56	52	49	44	54	57	60	64	72	75	80	81	81	70·6	14·3
25	82	79	72	82	87	88	90	87	83	73	78	69	65	71	88	84	90	91	90	93	93	93	94	91	83·7	15·2
26	90	92	90	89	87	85	80	75	71	69	67	74	83	91	91	91	90	92	90	91	90	90	92	93	85·5	15·6
27	94	93	96	87	89	83	81	77	69	67	70	64	57	57	58	71	60	63	69	75	84	85	83	86	75·9	13·4
28	90	89	88	82	83	81	76	73	65	58	52	53	52	53	53	52	59	64	67	74	77	72	82	82	70·0	11·9
29	86	87	90	93	89	86	79	76	64	60	58	58	72	81	74	74	69	71	78	83	81	84	85	85	77·6	13·3
30	86	94	91	93	95	95	90	92	83	77	75	70	63	61	61	55	57	56	70	74	85	86	88	89	78·5	15·2
31	90	88	88	87	93	91	90	86	83	79	73	72	64	64	65	63	62	62	71	75	82	87	90	91	79·0	14·6
Mean ...	86·3	86·5	86·9	87·0	**87·3**	85·1	81·2	77·7	72·5	67·3	65·1	63·2	**61·3**	61·7	61·5	62·1	64·8	65·3	69·3	74·7	79·7	81·6	83·8	84·8	74·9	†14·1
Vapour Pressure* ...	mb. 13·7	mb. 13·5	mb. 13·5	mb. **13·4**	mb. 13·6	mb. 13·8	mb. 13·9	mb. 14·0	mb. 13·9	mb. 13·6	mb. 13·8	mb. 13·7	mb. 13·6	mb. 14·0	mb. 13·9	mb. 13·9	mb. 14·4	mb. 14·3	mb. **14·5**	mb. 14·4	mb. 14·3	mb. 14·1	mb. 14·0	mb. 13·8	mb. ‡13·9	

478. Richmond (Kew Observatory) : North Wall Screen : h_t = 3·0 metres.

August, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	94	97	98	95	93	93	88	70	58	56	59	59	58	57	52	55	55	55	57	59	63	64	66	69	70·0	14·4
2	74	73	70	71	74	75	82	84	84	83	82	84	87	81	79	76	80	81	83	81	84	87	86	88	80·0	15·8
3	88	87	88	86	87	86	85	80	73	70	65	59	58	55	64	72	74	73	76	79	83	87	92	90	77·3	16·4
4	90	90	91	90	90	90	89	90	87	87	85	76	68	66	70	74	78	82	82	81	89	94	93	92	84·3	19·7
5	94	93	95	94	90	90	90	93	88	87	87	84	81	74	67	70	77	77	79	97	95	95	95	94	86·9	**19·8**
6	93	97	93	95	95	91	90	89	87	86	86	81	82	79	73	73	76	79	75	84	87	89	88	89	85·8	17·2
7	90	94	90	90	91	87	81	75	69	71	63	61	56	55	56	53	56	58	58	67	71	77	78	80	72·2	14·4
8	85	84	91	95	96	97	94	90	84	79	87	84	78	72	61	61	73	88	78	87	90	89	90	89	84·0	13·7
9	87	83	80	76	78	75	74	72	67	63	58	47	58	56	58	55	56	55	59	76	80	81	86	87	69·5	9·9
10	87	87	88	87	86	88	76	79	83	80	84	90	90	88	84	83	89	91	90	92	91	88	87	86	86·5	12·5
11	87	87	89	86	88	88	81	73	66	55	53	54	47	50	48	54	59	66	63	66	70	78	81	82	69·7	11·3
12	84	85	87	87	91	91	87	79	76	65	58	51	56	51	52	63	65	68	76	88	92	86	91	90	75·6	14·7
13	89	89	92	90	90	90	91	90	89	85	93	81	74	76	80	80	81	83	87	89	90	93	92	91	86·8	16·3
14	90	90	90	90	95	94	90	88	83	90	96	96	96	97	96	91	95	92	94	96	98	96	99	98	**93·2**	15·7
15	99	100	99	99	98	97	99	90	80	81	66	61	65	63	57	62	56	56	65	78	84	86	84	87	79·9	14·7
16	89	92	92	93	92	88	85	85	80	77	75	70	64	69	71	76	70	68	74	74	75	80	78	77	79·1	14·7
17	74	75	77	81	83	80	76	75	71	71	71	61	58	49	55	49	52	54	58	69	74	85	89	91	69·6	12·9
18	93	96	95	94	94	91	89	84	80	68	60	54	54	45	54	58	57	69	71	81	81	88	86	88	76·3	13·7
19	87	88	84	92	95	99	96	97	95	93	90	89	81	78	76	72	70	68	76	72	77	76	76	81	83·8	16·1
20	78	77	83	82	85	81	80	83	86	70	64	77	71	69	75	88	94	91	88	88	86	86	88	93	81·5	13·6
21	87	83	82	80	80	78	75	75	74	73	69	66	65	66	65	63	62	63	68	70	77	81	82	82	73·8	12·7
22	81	83	88	90	90	92	88	83	79	69	59	60	60	58	62	58	56	58	61	65	70	77	79	80	72·8	11·6
23	82	83	87	93	98	94	86	71	57	54	57	52	50	56	61	54	53	67	80	75	79	79	76	79	71·8	10·1
24	79	77	87	84	78	71	69	60	61	56	57	64	63	64	62	61	68	72	65	65	66	68	71	74	68·5	**9·5**
25	72	75	73	71	74	73	72	66	66	63	57	55	53	53	53	57	55	65	69	71	77	88	89	89	**67·9**	10·0
26	92	93	93	91	93	94	89	89	83	73	56	52	49	45	47	46	46	60	75	79	86	88	88	93	74·9	10·9
27	92	94	95	95	99	98	88	86	65	63	59	56	57	54	58	56	59	63	66	71	75	81	82	87	75·1	11·5
28	89	90	90	91	91	93	85	78	72	63	58	62	63	58	59	62	65	69	72	78	82	85	87	88	76·2	12·8
29	94	91	91	91	89	89	86	77	72	63	57	54	54	50	51	52	55	61	65	68	72	78	83	82	72·0	13·4
30	84	88	88	90	90	88	88	86	81	81	78	68	66	80	70	69	69	72	79	91	91	87	84	85	81·3	15·2
31	91	93	93	93	90	90	89	88	88	86	86	87	83	85	80	79	76	77	80	87	89	91	89	92	86·6	14·6
Mean ...	86·9	87·5	88·3	88·5	**89·1**	88·1	85·1	81·5	76·9	72·9	70·2	67·6	66·0	64·5	**64·4**	65·2	67·0	70·3	73·2	78·2	81·4	84·1	85·0	86·2	77·8	†13·9
Vapour Pressure* ...	mb. 13·5	mb. 13·4	mb. 13·3	mb. 13·2	mb. **13·2**	mb. 13·3	mb. 13·5	mb. 13·6	mb. 13·6	mb. 13·5	mb. 13·5	mb. 13·6	mb. 13·5	mb. 13·7	mb. 13·5	mb. 13·7	mb. 13·7	mb. **14·0**	mb. 13·7	mb. 13·8	mb. 13·9	mb. 13·9	mb. 13·8	mb. 13·7	mb. ‡13·6	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	

* Computed from the mean temperature and mean relative humidity. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

479. Richmond (Kew Observatory) : North Wall Screen : h_t (height of thermometer bulbs above the ground) = 3·0 metres.

September, 1931.

Hour. G.M.T. / Day.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	94	93	93	94	95	95	95	95	92	86	79	76	77	77	73	75	78	80	84	84	87	88	90	92	86·3	15·3
2	92	92	89	88	90	89	87	84	94	94	92	92	93	92	90	84	77	75	83	87	91	94	92	95	89·0	**15·7**
3	93	96	96	94	97	95	93	88	84	76	74	86	76	74	67	68	70	71	82	85	90	94	93	94	84·9	14·7
4	94	96	94	95	94	94	91	88	89	80	73	68	70	67	70	72	74	80	81	85	86	88	90	93	83·9	13·2
5	94	95	90	83	81	77	83	81	87	83	83	83	86	85	83	82	82	84	76	68	68	79	81	81	82·5	11·1
6	83	87	86	90	88	88	86	79	68	61	55	49	48	48	51	52	58	66	75	85	88	89	93	89	73·3	12·5
7	93	96	93	94	94	92	93	86	82	74	75	60	59	65	65	60	55	55	81	83	91	86	88	93	79·6	9·4
8	90	91	92	98	93	93	98	93	93	80	64	56	53	57	51	57	54	61	58	80	91	88	93	90	78·1	9·3
9	91	91	92	91	88	93	91	88	83	64	49	49	49	49	47	45	48	51	62	67	73	76	78	79	70·8	9·8
10	79	84	84	84	82	80	73	76	75	76	68	57	52	50	56	54	49	53	59	73	75	82	78	83	**70·0**	9·5
11	85	88	88	88	87	85	83	75	72	72	63	61	58	60	57	56	63	76	89	92	92	93	93	92	77·6	9·5
12	88	89	92	92	95	98	94	92	90	93	89	88	91	96	96	96	94	90	92	87	84	84	82	86	90·9	11·9
13	85	86	87	86	90	88	86	79	74	68	65	56	55	53	51	54	60	66	71	73	76	78	83	91	73·3	**9·1**
14	92	93	93	93	94	96	99	92	85	75	65	59	61	58	57	63	68	75	85	88	88	88	90	91	81·2	10·8
15	92	93	90	91	92	92	91	87	84	80	74	74	74	70	71	71	73	80	90	94	94	97	99	99	85·3	14·2
16	99	98	98	97	98	98	99	98	97	91	83	75	70	63	66	65	69	81	80	85	88	89	94	95	86·6	14·3
17	95	95	94	93	96	96	96	98	96	95	93	91	81	80	85	88	89	92	94	95	97	95	95	96	**92·7**	14·4
18	96	98	99	100	99	100	99	98	92	90	87	88	89	90	90	87	91	96	96	82	83	86	89	95	92·5	15·4
19	91	90	93	94	96	95	97	94	90	82	78	77	71	72	67	71	77	81	85	83	81	86	97	96	85·1	14·8
20	96	94	93	91	89	89	87	79	73	69	64	58	53	52	53	55	53	62	83	80	78	80	83	87	75·3	11·2
21	91	93	96	89	88	89	87	79	70	64	63	61	62	73	60	61	67	67	68	75	75	78	79	83	75·8	9·4
22	85	85	88	88	87	87	88	83	75	67	63	66	54	55	54	53	65	67	71	75	80	79	75	82	73·9	9·3
23	95	96	96	90	90	88	89	87	83	95	94	89	89	88	88	90	87	82	86	87	89	88	88	91	89·2	12·3
24	92	92	91	89	89	89	89	83	83	72	75	80	77	81	78	81	83	86	88	88	87	87	87	89	84·9	11·5
25	92	93	95	89	87	87	83	85	82	82	80	80	77	75	77	78	81	85	87	88	89	88	89	89	84·9	11·8
26	88	90	94	93	90	91	83	81	84	86	87	82	83	83	82	78	78	83	75	74	82	87	87	89	84·6	11·6
27	93	94	92	98	99	99	96	95	91	84	66	72	69	67	61	66	74	73	77	82	82	79	80	81	82·3	11·1
28	87	91	92	92	93	95	95	92	84	81	73	71	68	63	64	69	70	85	93	94	94	99	98	98	84·7	11·6
29	98	95	95	95	95	96	97	94	94	90	83	76	66	68	69	72	81	86	93	97	99	98	100	98	89·0	11·9
30	98	97	94	96	95	95	95	88	85	81	67	67	66	68	70	75	81	85	88	96	95	97	95	94	86·3	13·0
Mean ...	91·4	**92·4**	92·3	91·8	91·7	91·6	90·8	87·2	84·4	79·7	74·1	71·6	69·2	69·3	**68·3**	69·3	71·6	75·8	81·1	83·7	85·8	87·3	88·6	90·4	82·5	†12·0
Vapour Pressure* ... (mb.)	11·6	11·5	11·4	11·3	11·2	**11·1**	11·4	11·5	11·8	11·9	11·7	11·7	11·6	11·7	11·7	11·7	11·9	12·0	**12·1**	12·0	11·9	11·7	11·6	11·6	‡11·7	

480. Richmond (Kew Observatory) : North Wall Screen : h_t = 3·0 metres.

October, 1931.

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	94	98	98	97	96	97	97	98	87	74	72	69	70	69	59	59	71	74	77	83	84	86	87	85	82·7	13·2
2	81	82	93	95	94	90	86	88	85	88	87	84	85	86	79	83	86	95	94	90	93	93	95	96	88·5	**15·5**
3	95	97	94	95	96	96	93	87	78	74	60	58	56	54	56	52	62	82	85	89	91	90	92	94	80·3	11·3
4	95	89	96	98	95	95	94	93	87	83	79	78	81	82	82	88	89	90	92	94	94	96	94	96	90·0	14·0
5	96	94	94	94	96	94	94	90	86	80	80	83	87	84	78	79	83	87	82	88	86	95	95	99	88·5	15·4
6	98	96	99	99	98	94	99	93	98	90	80	78	79	73	75	80	87	88	88	89	88	93	93	94	89·7	13·3
7	97	96	96	95	83	89	89	85	81	69	58	53	61	71	63	63	70	71	76	80	80	84	84	83	78·4	11·4
8	92	91	91	93	92	92	94	94	97	90	83	83	78	71	71	74	78	86	90	90	90	91	95	95	87·3	12·7
9	94	93	97	97	98	96	94	95	90	76	68	67	63	64	65	70	75	81	89	93	94	90	91	89	84·7	13·2
10	90	90	92	93	94	94	95	95	91	83	83	82	77	79	83	84	87	93	97	96	96	97	98	99	90·1	14·3
11	95	99	99	98	95	99	96	99	99	98	97	96	93	90	94	95	94	99	99	98	99	100	100	100	**97·1**	12·7
12	100	100	100	100	100	100	99	99	99	99	97	95	88	88	84	84	92	97	100	100	100	100	100	99	96·7	13·0
13	98	99	100	100	100	100	99	98	95	90	88	82	88	89	90	87	86	90	89	93	94	98	98	98	93·7	12·7
14	93	96	97	97	97	97	96	93	87	75	65	62	61	66	60	60	61	66	65	72	78	78	82	85	79·0	9·1
15	93	93	95	94	96	93	97	94	96	80	69	69	65	65	63	66	70	76	78	79	81	82	82	83	81·7	9·3
16	83	87	89	89	87	88	88	87	83	81	78	75	77	79	81	85	77	82	80	77	76	77	78	83	82·0	11·7
17	87	87	86	86	83	79	79	79	79	73	72	71	72	71	73	75	74	73	74	75	75	76	76	80	77·3	10·8
18	83	93	95	92	92	89	88	88	87	80	79	77	80	77	77	80	86	87	87	87	84	91	93	93	85·7	11·4
19	96	96	93	93	99	98	99	96	92	92	86	69	67	65	66	68	70	76	74	88	75	76	83	83	83·5	10·4
20	83	86	83	83	82	80	69	73	74	73	69	68	86	72	71	59	65	70	74	67	65	70	77	73	74·0	8·3
21	71	76	74	74	80	83	90	85	78	74	74	67	63	59	54	57	67	72	75	75	75	84	82	94	73·8	6·4
22	93	93	95	97	99	100	100	100	100	97	94	90	74	68	65	68	73	77	82	84	88	91	95	94	88·2	7·0
23	97	92	92	92	97	95	93	86	81	77	72	70	70	69	63	60	61	60	71	75	81	80	84	77	79·3	7·9
24	79	81	81	73	72	75	81	78	77	71	68	58	53	55	59	65	73	76	76	78	74	73	79	75	**72·1**	6·8
25	80	82	83	85	84	85	84	83	77	73	69	68	61	58	67	61	65	72	80	73	78	80	80	84	75·3	6·0
26	84	83	87	85	86	85	88	87	80	75	70	64	61	57	58	64	67	68	76	82	87	96	100	100	78·4	6·5
27	100	100	100	100	100	100	100	100	100	100	100	100	86	80	73	77	80	91	95	98	99	100	100	100	95·0	**6·0**
28	100	100	100	100	100	100	100	100	100	92	93	86	93	87	75	62	68	71	72	76	83	87	90	91	88·8	7·1
29	88	84	85	86	86	83	87	89	84	83	70	73	71	69	73	81	90	90	93	96	100	96	98	96	85·3	8·4
30	88	75	73	74	80	87	74	78	72	67	70	65	58	57	52	57	61	65	77	78	91	87	98	98	74·2	7·4
31	98	96	96	98	98	98	98	98	92	85	78	77	69	73	76	83	84	80	82	88	88	86	85	86	87·4	7·5
Mean ...	91·0	91·1	92·0	92·0	**92·1**	92·0	91·6	90·6	87·5	82·0	77·7	74·7	73·3	71·8	**70·5**	71·8	75·9	80·2	82·9	84·9	86·0	87·8	89·8	90·4	84·2	†10·3
Vapour Pressure* ... (mb.)	9·7	9·6	9·5	9·4	9·3	**9·3**	9·3	9·6	10·0	10·2	10·3	10·5	**10·5**	10·4	10·2	10·1	10·3	10·3	10·2	10·1	10·0	9·9	9·9	9·7	‡9·9	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	

* Computed from the mean temperature and mean relative humidity. † Mean of the column. ‡ Mean of the row.

Percentages at exact hours, Greenwich Mean Time.

481. Richmond (Kew Observatory) : North Wall Screen : h_t (height of thermometer bulbs above the ground) = **3·0** metres.

November, 1931.

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure*
Day.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	86	88	98	97	97	96	98	96	84	74	71	64	55	58	58	64	66	71	85	85	90	88	92	94	81·3	8·3
2	96	94	98	93	96	94	94	91	97	82	73	66	61	65	66	69	84	87	89	91	92	92	96	89	85·7	8·8
3	95	93	89	85	83	88	87	78	68	69	65	66	69	68	66	62	62	63	64	68	66	69	69	68	**73·8**	11·6
4	65	67	65	63	67	76	78	77	80	88	94	87	82	68	70	76	82	84	87	89	92	95	94	94	79·5	**12·1**
5	98	97	99	99	99	99	96	96	95	88	88	86	74	73	73	80	87	88	89	95	96	95	94	96	90·8	11·3
6	95	92	95	96	98	96	95	86	88	81	80	76	72	73	74	76	76	80	86	87	86	89	90	92	85·9	10·9
7	99	100	100	96	99	96	96	98	97	94	85	75	71	71	66	75	86	81	79	80	86	87	89	94	87·5	10·7
8	92	89	88	91	91	92	94	94	93	93	89	92	88	87	87	92	89	88	89	91	89	91	93	98	90·7	10·8
9	98	99	99	99	99	96	99	96	96	92	88	77	82	91	95	90	93	95	91	91	89	90	93	93	93·1	10·9
10	91	89	91	92	87	89	86	88	92	87	84	87	79	81	79	86	84	87	85	79	79	84	85	82	85·7	10·0
11	85	83	85	86	87	85	84	84	85	78	75	78	76	73	77	86	84	87	89	88	88	89	91	91	83·7	11·0
12	96	91	98	96	96	94	93	91	92	88	80	73	61	60	58	63	78	76	82	88	90	86	88	93	83·7	9·4
13	96	93	93	96	93	96	98	98	96	93	89	79	80	77	77	84	86	93	94	98	98	100	100	100	91·8	9·2
14	100	100	98	100	100	94	96	96	98	91	83	71	66	64	70	76	78	79	81	86	87	87	81	83	86·4	9·1
15	82	75	76	80	73	73	76	79	83	86	86	86	89	89	88	90	98	94	93	92	89	94	86	85	85·0	9·1
16	85	86	86	86	84	81	85	87	86	84	83	86	88	86	77	73	72	77	81	82	87	88	89	94	83·7	8·6
17	98	98	95	100	100	98	100	98	92	94	88	82	75	73	76	78	81	81	78	72	74	74	77	80	86·2	7·6
18	77	80	80	81	84	82	79	78	77	72	76	83	87	94	93	88	91	93	98	96	93	93	98	96	85·9	8·4
19	95	93	96	100	99	99	99	98	98	94	92	88	88	87	87	87	91	99	98	98	98	100	100	100	95·1	9·8
20	100	100	100	100	100	100	100	100	93	94	86	87	87	87	86	86	87	88	91	92	94	94	95	96	93·5	9·5
21	95	92	93	93	91	93	88	93	89	85	81	74	73	73	62	74	84	97	96	100	97	98	97	96	88·1	8·9
22	98	98	98	96	96	100	96	98	100	98	100	100	100	96	93	91	97	91	93	93	96	94	90	91	96·1	7·6
23	93	90	88	86	88	89	90	90	93	91	87	82	82	83	86	88	88	88	89	87	91	91	89	89	88·3	10·3
24	95	94	95	98	96	97	89	91	91	83	74	71	68	69	71	79	81	86	88	88	91	90	93	93	86·2	10·0
25	94	94	94	98	96	95	95	94	95	90	93	88	84	90	85	87	91	89	89	88	88	86	86	86	90·7	10·7
26	87	88	96	96	95	93	94	95	95	93	86	80	81	83	83	86	89	83	83	87	89	90	89	86	88·6	11·5
27	87	86	84	86	89	91	87	92	88	83	79	74	81	86	86	88	88	87	87	88	91	91	93	93	86·7	9·0
28	96	94	98	94	94	95	99	97	98	96	91	93	88	86	84	84	86	83	88	86	88	90	90	97	91·4	9·5
29	97	96	98	96	98	98	98	98	100	97	98	98	98	100	98	98	100	98	96	98	98	100	100	100	**98·1**	**7·3**
30	100	100	100	100	100	100	100	100	96	97	93	90	92	95	91	93	93	96	96	93	94	96	94	96	96·1	7·9
Mean ...	92·4	91·3	92·4	**92·6**	92·5	92·5	92·3	91·9	91·2	87·8	84·6	81·3	79·2	79·5	**78·7**	81·6	85·1	86·3	87·8	88·5	89·5	90·4	90·7	91·5	88·0	†9·7
Vapour Pressure* ...	mb. 9·5	mb. 9·3	mb. 9·4	mb. 9·3	mb. **9·2**	mb. 9·3	mb. 9·3	mb. 9·3	mb. 9·7	mb. **9·9**	mb. 9·9	mb. 9·8	mb. 9·7	mb. 9·8	mb. 9·7	mb. 9·8	mb. 9·8	mb. 9·7	mb. 9·7	mb. 9·5	mb. 9·5	mb. 9·5	mb. 9·5	mb. 9·5	mb. ‡9·6	

482. Richmond (Kew Observatory) : North Wall Screen : h_t = **3·0** metres.

December, 1931.

Day	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	Vapour Pressure*
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	mb.
1	94	93	96	97	97	97	96	96	98	98	98	93	94	92	89	89	91	92	91	87	91	89	92	90	93·5	8·4
2	92	94	94	92	89	93	98	100	100	97	97	97	97	96	94	90	90	87	84	83	81	86	86	89	92·0	8·2
3	90	84	86	87	84	86	87	93	93	94	91	92	95	94	87	81	69	77	80	79	79	82	82	82	85·7	9·4
4	83	84	92	95	91	91	77	75	72	73	70	73	75	84	88	72	59	61	55	58	55	55	65	67	74·0	10·8
5	70	72	71	74	76	78	83	83	83	78	74	75	75	79	83	87	89	94	95	93	88	85	87	83	81·1	9·6
6	74	72	69	67	77	71	81	79	77	75	74	72	72	69	71	77	83	76	74	77	77	81	75	73	74·9	7·9
7	78	83	82	83	85	77	75	80	80	91	79	74	59	57	65	74	75	84	83	86	87	89	87	85	78·8	6·5
8	85	81	83	80	82	87	92	92	94	96	96	94	99	93	92	93	99	99	100	100	99	98	100	98	92·7	8·5
9	98	97	98	98	93	97	95	97	95	87	81	76	73	74	74	79	82	80	83	81	81	85	85	89	86·8	8·4
10	88	90	94	91	93	93	96	98	94	92	85	81	77	78	79	81	84	86	87	86	86	86	86	87	87·5	10·1
11	89	89	89	89	92	92	91	91	89	88	87	86	83	83	85	86	87	92	93	92	93	95	92	98	89·4	10·7
12	94	96	96	93	94	96	93	88	85	82	82	85	80	79	79	82	86	88	89	86	86	86	88	92	87·8	9·3
13	90	91	94	94	96	96	98	98	96	94	92	88	89	89	88	85	82	83	83	84	84	81	82	82	88·9	9·3
14	83	77	79	79	81	82	84	84	85	81	75	72	73	74	81	82	81	82	83	86	86	85	83	88	81·0	8·4
15	85	85	83	82	82	83	82	81	81	83	81	83	80	82	89	95	96	96	93	99	93	93	93	88	87·0	9·3
16	87	84	87	84	77	71	70	64	71	66	62	61	60	61	53	57	66	73	77	78	73	76	82	82	71·9	6·7
17	82	80	85	83	85	89	92	96	93	91	86	85	83	78	77	78	79	79	84	88	93	91	93	94	85·7	6·7
18	94	96	100	100	100	100	100	100	100	100	100	99	99	99	98	98	98	98	98	98	98	98	98	98	98·5	5·9
19	98	98	98	98	98	97	97	97	98	98	98	97	96	97	95	91	92	95	95	95	95	95	96	96	96·3	5·3
20	95	95	95	95	95	95	95	95	93	92	90	87	87	81	82	83	86	89	90	93	94	92	94	95	91·2	6·7
21	95	96	95	92	82	80	80	83	80	79	76	74	74	76	76	77	77	78	77	72	69	71	73	72	79·8	6·6
22	73	75	80	75	75	69	67	73	73	77	75	72	73	75	74	75	78	80	80	82	84	80	80	83	76·0	5·8
23	80	85	88	84	85	85	84	80	79	78	77	76	77	79	79	80	80	82	82	82	79	79	82	81	81·0	6·3
24	84	87	89	90	88	88	91	91	91	88	86	86	83	84	84	86	88	89	86	85	86	88	91	92	87·3	8·9
25	91	92	93	95	95	95	96	96	96	96	96	96	95	94	95	97	97	96	97	99	98	99	99	99	95·8	**11·4**
26	99	99	100	100	99	99	100	99	100	100	96	93	86	84	80	82	85	87	91	95	95	95	95	96	94·0	11·3
27	96	97	96	92	91	87	87	85	86	82	77	76	75	75	74	70	70	70	67	70	77	76	79	77	80·9	8·8
28	80	80	78	78	77	83	84	86	84	82	77	77	88	87	82	62	69	65	64	74	70	72	75	74	77·0	8·1
29	72	72	70	71	70	85	77	89	85	83	73	70	61	55	66	68	74	78	85	79	73	73	75	75	74·1	5·3
30	76	77	78	79	80	79	79	79	78	76	73	70	67	65	64	66	67	68	69	68	68	68	68	68	72·2	4·8
31	67	66	70	69	67	70	74	77	76	81	75	71	63	60	58	59	68	80	84	87	92	95	96	99	74·5	**4·1**
Mean ...	85·9	86·0	87·3	86·7	86·3	86·8	87·1	**87·9**	87·3	86·4	83·2	81·7	80·3	**79·8**	80·0	80·1	81·5	83·3	83·8	84·6	84·2	84·7	85·8	86·2	84·4	†8·0
Vapour Pressure* ...	mb. 7·7	mb. 7·7	mb. 7·6	mb. 7·6	mb. 7·5	mb. **7·5**	mb. 7·5	mb. 7·6	mb. 7·8	mb. 7·8	mb. 7·9	mb. 8·0	mb. 8·1	mb. **8·2**	mb. 8·1	mb. 8·0	mb. 7·9	mb. 8·0	mb. 7·9	mb. 7·9	mb. 7·7	mb. 7·7	mb. 7·6	mb. 7·6	mb. ‡7·8	
Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean	

* Computed from the mean temperature and mean relative humidity. † Mean of the column. ‡ Mean of the row.

For exact hours, Greenwich Mean Time.

483. Richmond (Kew Observatory): North Wall Screen: h_t = 3·0 metres. **1931.**

Hour. G.M.T.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.	Mean
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Relative Humidity ...	86·7	87·1	87·6	**87·9**	87·9	87·5	85·9	83·6	80·8	77·3	73·9	71·1	69·1	67·8	**67·4**	68·6	70·9	73·2	76·1	79·3	81·7	83·2	84·9	85·9	79·4
	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.	mb.
Vapour Pressure in Millibars *	9·4	9·4	9·3	**9·2**	9·2	9·3	9·4	9·5	9·6	9·7	9·8	9·8	9·8	9·8	9·7	9·8	9·8	**9·8**	9·8	9·7	9·7	9·6	9·6	9·5	9·6

* Computed from the mean temperature and mean relative humidity.

RELATIVE HUMIDITY: MONTHLY MEANS AND DIURNAL INEQUALITIES.

The departures from the mean of the day are adjusted for non-cyclic change.

484. Richmond (Kew Observatory): North Wall Screen: h_t = 3·0 metres. **1931.**

Month.	Mean.	Hour. 1.	G.M.T. 2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	Noon	13.	14.	15.	16.	17.	18.	19.	20.	21.	22.	23.	24.
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Jan.	85·9	+ 2·1	+ 2·9	+ 3·1	+ 2·7	+ 3·6	+ **3·7**	+ 3·1	+ 3·6	+ 2·8	+ 2·1	+ 0·1	− 3·1	− 5·2	− 7·3	− **7·4**	− 6·2	− 4·5	− 3·1	− 1·9	+ 0·8	+ 1·2	+ 1·5	+ 2·7	+ 2·9
Feb.	81·1	+ 5·4	+ 5·7	+ 5·2	+ 5·9	+ 5·9	+ 6·5	+ **6·6**	+ 6·0	+ 5·4	+ 2·7	− 1·7	− 4·7	− 9·1	−12·6	−**13·2**	−10·7	− 6·9	− 3·7	− 1·8	+ 0·2	+ 0·5	+ 1·5	+ 2·9	+ 4·0
Mar.	**70·1**	+ 7·9	+ 8·5	+ 9·3	+10·3	+10·3	+**11·2**	+10·5	+ 9·6	+ 5·3	− 0·2	− 6·3	−11·1	−14·4	−17·1	−**18·1**	−14·8	−11·7	− 7·8	− 3·8	+ 0·3	+ 2·9	+ 4·6	+ 6·7	+ 7·7
April	76·1	+ 7·4	+ 8·2	+ 8·1	+**10·0**	+ 9·9	+ 9·9	+ 8·2	+ 3·0	− 1·3	− 3·3	− 6·0	− 8·5	− 9·7	−11·7	−**12·1**	−11·6	− 9·4	− 7·1	− 2·8	+ 0·6	+ 2·7	+ 3·3	+ 5·5	+ 6·6
May	74·2	+11·2	+11·5	+12·1	+**13·1**	+12·4	+10·7	+ 7·1	+ 1·4	− 2·7	− 6·1	− 8·3	−10·4	−12·6	−**12·9**	−12·9	−11·8	−10·9	−10·2	− 5·9	− 1·6	+ 3·4	+ 5·7	+ 8·5	+ 9·5
June	73·8	+11·0	+12·6	+13·0	+**13·5**	+12·3	+10·3	+ 6·4	+ 1·8	− 0·6	− 4·2	− 6·9	− 9·5	−10·4	−**12·7**	−12·1	−12·2	−12·3	−11·4	− 9·1	− 3·6	+ 1·9	+ 5·0	+ 7·8	+ 9·2
July	74·9	+11·6	+11·8	+12·1	+12·3	+**12·5**	+10·3	+ 6·4	+ 2·9	− 2·3	− 7·6	− 9·8	−11·7	−**13·5**	−13·1	−13·5	−12·8	−10·1	− 9·7	− 5·6	− 0·2	+ 4·7	+ 6·6	+ 8·8	+ 9·8
Aug.	77·8	+ 9·1	+ 9·7	+10·5	+10·6	+**11·3**	+10·3	+ 7·3	+ 3·6	− 0·9	− 4·9	− 7·7	−10·3	−11·9	−13·4	−**13·5**	−12·6	−10·9	− 7·5	− 4·7	+ 0·3	+ 3·6	+ 6·3	+ 7·1	+ 8·4
Sept.	82·5	+ 9·1	+**10·1**	+10·0	+ 9·5	+ 9·3	+ 9·3	+ 8·4	+ 4·8	+ 1·9	− 2·7	− 8·3	−10·9	−13·3	−13·2	−**14·2**	−13·3	−10·9	− 6·8	− 1·5	+ 1·1	+ 3·1	+ 4·7	+ 6·0	+ 7·7
Oct.	84·2	+ 6·7	+ 6·8	+ 7·8	+ 7·8	+ **7·9**	+ 7·7	+ 7·4	+ 6·4	+ 3·3	− 2·2	− 6·5	− 9·4	−10·8	−12·3	−**13·6**	−12·3	− 8·2	− 3·9	− 1·2	+ 0·8	− 2·0	− 3·8	− 5·8	− 6·4
Nov.	**88·0**	+ 4·5	+ 3·5	+ 4·6	+ **4·8**	+ 4·6	+ 4·6	+ 4·4	+ 4·0	+ 3·2	− 0·1	− 3·4	− 6·7	− 8·8	− 8·5	− **9·3**	− 6·4	− 3·0	− 1·8	− 0·3	+ 0·4	+ 1·4	+ 2·3	+ 2·6	+ 3·3
Dec.	84·4	+ 1·5	+ 1·6	+ 2·9	+ 2·2	+ 1·9	+ 2·4	+ 2·7	+ **3·5**	+ 2·8	+ 1·9	− 1·3	− 2·8	− 4·2	− **4·7**	− 4·4	− 4·4	− 2·9	− 1·1	− 0·6	+ 0·1	− 0·3	+ 0·2	+ 1·3	+ 1·7
Year	79·4	+ 7·3	+ 7·7	+ 8·2	+ **8·6**	+ 8·5	+ 8·1	+ 6·5	+ 4·2	+ 1·4	− 2·1	− 5·5	− 8·3	−10·3	−11·6	−**12·0**	−10·8	− 8·5	− 6·2	− 3·3	− 0·1	+ 1·9	+ 3·2	+ 4·5	+ 5·4

RAINFALL: ANNUAL TOTALS OF HOURLY VALUES.

Amounts, in millimetres; durations, in hours for periods of sixty minutes between the exact hours, Greenwich Mean Time.

485. Richmond (Kew Observatory): H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 5·5 metres + 0·53 metres. **1931.**

Hour. G.M.T.	0 to 1.	1 to 2.	2 to 3.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13.	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	21 to 22.	22 to 23.	23 to 24.	0 to 24.
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.
Amount	19·1	19·7	19·9	26·2	25·3	23·8	29·2	20·5	20·0	26·8	27·8	30·1	24·2	27·7	34·6	26·9	26·5	19·5	25·1	**51·8**	18·2	**15·9**	21·2	25·3	605·3
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.
Duration	18·2	**13·6**	15·1	17·0	19·7	18·7	19·9	16·6	17·0	15·7	19·4	17·0	17·6	18·9	14·5	19·0	21·1	**22·9**	19·7	21·8	20·7	18·6	20·6	19·8	443·1

486. Richmond (Kew Observatory). NOTES ON RAINFALL. **1931.**

Dry Periods.

There was an "Absolute Drought" from October 9th to 27th.
There was a "Partial Drought" from March 2nd to April 1st.

Wet Periods.

There were no notable wet periods.

Rainfall Duration.

Hours:	0·1—1·0	1·1—2·0	2·1—6·0	6·1—1·2	12.
No. of days:	54	40	52	15	3

Continuous Falls.

The fall of longest duration was 9 mm. in 13 hr. 18 min. on April 19th.

Heavy Falls in Short Periods.

The only noteworthy fall of the year occurred on August 5th during a thunderstorm, when 28 mm. fell in 66 minutes.

Amounts, in millimetres, for periods of sixty minutes between the exact hours, Greenwich Mean Time.

487. Richmond (Kew Observatory): H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 5·5 metres + 0·53 metres. **January, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(⌴)	(⌴)	(⌴)	...	...
2	(⌴)	(⌴)	(·1)	(⌴)	(⌴)	(⌴)	(⌴)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
3	1·7	·5	·6	·2	·2	...	...	...	...	...	·3	·1	·1	·1	·1	·2	...	...	...	...	...	...	...	...	4·1	6·3
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(⌴)	(⌴)	(⌴)	...	...
5	(⌴)	(⌴)	(·1)	(⌴)	(⌴)	(⌴)	(⌴)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·2	0·7
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	0·2	0·5
12	...	...	...	...	·6	·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·4	1·7
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	0·3	0·8
16	...	...	...	...	...	...	·3	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·5	1·2
17	...	...	...	...	...	...	...	...	...	·9	1·3	...	...	...	...	...	...	...	...	...	...	...	...	...	2·2	1·4
18	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	·1	0·2	0·4
19	...	...	...	...	...	...	·2	·3	·1	...	...	...	...	...	...	...	...	...	...	...	...	·1	·1	·1	0·9	1·5
20	·1	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·7
21	(...)	(·1)	(...)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·1
22	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·3
23	...	...	...	...	·2	1·0	·7	1·0	·9	·8	·7	·9	·7	·1	...	...	...	...	·4	(...)	(·1)	...	...	...	**7·5**	**8·9**
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·8	·2	1·0	0·9
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	0·2	0·2
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·9	·1	·1	·5	1·8	2·2
28	·9	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·2	1·3
29	...	...	·3	·1	...	...	...	...	...	...	...	...	...	...	...	...	·4	...	...	...	·1	...	·3	·9	2·1	2·9
30	·1	...	...	...	...	...	...	...	...	...	·5	·2	...	...	·1	...	...	...	...	...	...	...	...	...	0·9	0·9
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·2	·2	·2	...	·6	·3	·1	1·7	4·1
Sum.	3·1	1·0	1·1	0·3	1·0	2·0	1·2	1·7	1·0	1·7	2·8	1·2	0·9	0·2	0·4	0·2	0·5	0·2	0·6	0·4	1·3	1·0	1·6	1·9	27·3	37·0
Total Duration.	hr. 2·8	hr. 1·3	hr. 1·3	hr. 1·2	hr. 1·6	hr. 2·4	hr. 1·5	hr. **3·0**	hr. 1·2	hr. 1·7	hr. 2·5	hr. 1·7	hr. 1·5	hr. 0·6	hr. 0·9	hr. 0·5	hr. 0·7	hr. 1·0	hr. 1·1	hr. 0·8	hr. 1·6	hr. 1·2	hr. 2·3	hr. 2·6	hr. 37·0	

488. Richmond (Kew Observatory): H_r = 5·5 metres + 0·53 metres. **February, 1931.**

Day.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration 0–24
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	·2	(·1)	(...)	1·0	·9	·1	·5	...	...	...	...	...	...	2·8	1·8
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	·4	...	0·8	1·3
3	·1	·2	...	·2	...	...	·1	...	...	...	...	(...)	...	(·1)	...	...	...	...	...	...	...	...	...	...	0·7	0·8
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	·1	·3	·1	0·6	1·7
7	·1	·1	·1	·3	·6	·3	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	(⌴)	(⌴)	(⌴)	1·8	4·1
8	(⌴)	(⌴)	(·1)	(⌴)	(⌴)	(⌴)	(⌴)	...	...	...	...	...	...	...	...	...	...	...	...	1·1	·2	·1	...	...	1·5	1·4
9	...	...	...	...	...	...	...	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·3
10	...	...	...	...	...	...	...	...	·5	2·1	·5	...	...	...	...	...	...	...	...	...	...	...	...	...	3·1	2·4
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	1·8	·9	·2	·6	·4	·1	...	·8	...	5·2	4·5
12	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·1
13	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·2
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	·2	·7	1·1	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·3	2·8
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·2	·6	·1	...	...	...	...	2·9	1·6
17	...	...	...	...	...	...	...	...	·1	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	0·4	1·2
18	...	...	...	...	...	...	...	...	·1	·6	...	·1	...	...	...	...	...	...	·1	·2	·2	·2	·4	...	1·9	4·9
19	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·5
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	0·1	0·2
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	·1	·9	·7	·1	...	...	...	...	...	...	...	...	...	...	1·8	2·3
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·3	1·3	2·5	1·6	1·1	1·4	·6	**8·9**	**7·1**
28	·1	·4	·2	...	...	...	...	...	...	...	...	·4	...	·2	...	·1	·2	...	...	...	...	...	...	...	1·6	1·8
Sum.	0·6	0·8	0·4	0·5	0·8	1·0	1·4	0·5	1·0	2·9	0·7	1·7	0·8	0·4	1·4	2·8	1·4	3·2	2·6	**4·3**	2·1	1·9	3·3	0·7	37·2	41·0
Total Duration.	hr. 0·7	hr. 1·5	hr. 0·9	hr. 0·8	hr. 1·6	hr. 1·6	hr. 1·6	hr. 0·8	hr. 1·6	hr. 2·7	hr. 1·1	hr. 1·6	hr. 1·1	hr. 0·5	hr. 0·9	hr. 1·6	hr. 1·1	hr. 3·1	hr. 2·5	hr. 3·3	hr. 2·1	hr. 2·9	hr. **4·0**	hr. 1·4	hr. 41·0	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts, in millimetres, for periods of sixty minutes between the exact hours, Greenwich Mean Time.

489. Richmond (Kew Observatory): H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 5·5 metres + 0·53 metres. **March, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	·2	2·6	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·0	1·4
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·4	·1	·2	...	0·8	2·5
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	·7	·3	...	...	...	...	·4	·8	·4	...	...	...	...	·3	·6	...	...	...	...	**3·5**	**3·8**
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	...	...	...	...	...	...	...	...	0·5	0·6
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	·1	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·6
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	0·1	0·2
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	0·1	0·4	**2·6**	0·2	...	0·7	0·3	...	...	...	...	0·4	0·8	0·4	...	0·5	0·1	...	0·3	0·7	0·4	0·1	0·2	...	8·2	9·1
Total Duration.	hr. 0·3	hr. 0·5	hr. **1·0**	hr. 0·2	hr. ...	hr. **1·0**	hr. 0·3	hr. ...	hr. ...	hr. ...	hr. ...	hr. 0·4	hr. **1·0**	hr. 0·5	hr. ...	hr. 0·6	hr. 0·2	hr. ...	hr. 0·2	hr. 0·8	hr. **1·0**	hr. 0·3	hr. 0·8	hr. ...	hr. 9·1	

490. Richmond (Kew Observatory): H_r = 5·5 metres + 0·53 metres. **April, 1931.**

Day.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
	mm.	mm.	m.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·4	0·6	1·0
2	·4	·1	...	·9	3·0	·2	1·4	·2	...	...	...	...	·1	·2	...	...	...	·3	·4	·8	·9	·7	·7	·4	10·7	12·3
3	·3	·1	·2	·3	·1	3·1	·9	...	...	·1	1·0	2·3	·3	...	·1	·4	1·0	·7	·8	1·3	1·1	·9	·8	·2	**16·0**	**15·6**
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	1·8	·8	·1	·2	·1	...	...	...	...	...	...	...	...	...	3·0	3·8
6	...	...	·1	1·6	·4	...	·2	·2	...	...	...	...	...	...	...	·2	·5	·6	·2	·1	...	...	...	...	4·1	7·6
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	0·1	0·2
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	1·2	·9	·2	·1	...	...	2·7	2·9
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	·4	·4	·2	·2	·4	·3	...	·2	...	...	...	...	·2	...	...	...	·3	...	·2	...	...	...	·2	4·5	7·5	5·7
18	·7	...	...	...	·4	1·4	·4	·2	·2	...	...	...	...	...	·1	...	...	·1	·1	...	·1	...	·2	·1	4·0	4·3
19	...	...	·1	·3	1·0	...	...	...	·9	...	·4	1·1	·8	·9	·9	·9	·9	·7	·9	·7	·4	·4	·2	·2	11·7	15·1
20	...	...	·1	·3	·1	·3	·3	·6	·3	...	...	...	...	·3	...	...	...	·2	·3	...	...	...	...	...	2·8	5·8
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	·6	1·8	·4	...	...	...	...	...	...	...	...	...	...	...	...	2·8	1·1
24	...	...	...	...	(...)	(·1)	...	...	...	...	...	...	...	...	...	·6	1·9	·2	·1	...	...	·5	·8	·3	4·5	3·9
25	·4	...	·1	...	...	...	...	·2	2·1	5·4	1·0	...	...	·3	1·1	...	·4	·2	1·2	...	·1	...	...	...	12·5	5·8
26	...	...	·2	...	...	·1	...	...	...	·4	...	3·5	·1	...	...	...	...	...	2·9	...	...	·6	...	...	7·8	1·7
27	·1	...	...	...	·9	...	...	...	...	...	...	...	·1	...	...	·2	·3	...	...	...	...	...	...	...	1·6	1·5
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·3	·1	...	...	...	...	...	...	...	0·5	0·9
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	2·3	0·6	1·0	3·6	6·3	5·5	3·2	1·6	3·5	6·5	6·0	8·1	1·7	1·9	2·4	2·6	5·4	3·4	**8·3**	3·8	2·8	3·2	3·1	6·1	92·9	89·2
Total Duration.	hr. 3·8	hr. 1·9	hr. 2·2	hr. 4·2	hr. 5·3	hr. 4·2	hr. 3·5	hr. 2·9	hr. 2·9	hr. 1·9	hr. 3·4	hr. 3·6	hr. 2·7	hr. 3·1	hr. 2·9	hr. 3·8	hr. 5·0	hr. 5·6	hr. **6·1**	hr. 4·4	hr. 3·4	hr. 3·8	hr. 3·7	hr. 4·9	hr. 89·2	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts, in millimetres, for periods of sixty minutes, between the exact hours, Greenwich Mean Time.

491. Richmond (Kew Observatory): H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 5·5 metres + 0·53 metres. **May, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	·5	·9	·8	·9	1·0	1·3	·8	1·3	1·0	1·0	1·3	·4	·1	11·3	**11·4**
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	·6	...	·2	...	...	...	...	·3	...	...	...	...	...	...	...	...	...	...	1·1	0·9
6	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·2
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	·1	...	...	·2	·5	·8	·1	·4	·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·5	4·3
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	·2	·1	·4	...	...	1·0	·4	·3	...	...	...	...	...	...	...	...	2·4	2·9
16	...	...	...	...	...	...	...	...	...	...	...	...	...	·7	·7	1·0	1·3	·3	...	·1	·1	·3	...	...	4·5	6·0
17	...	...	...	...	...	...	...	...	...	...	...	(·1)	...	(...)	...	...	·8	...	...	...	...	...	...	...	0·9	0·4
18	...	...	...	...	...	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·8
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	...	4·1	4·6	1·7
22	2·6	2·5	·8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5·9	2·6
23	...	...	...	...	...	...	...	...	...	...	...	...	·3	2·1	3·4	1·3	2·5	2·3	...	...	...	...	...	...	**11·9**	4·1
24	...	...	...	...	...	...	...	...	...	...	1·3	·2	·1	...	...	...	...	...	...	...	...	...	...	...	1·6	1·3
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·3	1·3	0·5
26	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·1
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	·1	...	...	...	6·5	1·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8·1	1·3
29	...	...	...	...	...	...	...	...	...	...	...	...	3·6	2·1	·2	...	...	...	...	...	...	...	...	...	5·9	0·8
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·4	...	...	...	...	...	...	...	...	0·4	0·8
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	2·9	2·5	0·9	0·2	0·5	0·8	**7·5**	1·9	0·8	0·1	1·7	0·8	4·9	7·0	5·6	4·0	5·9	3·4	1·3	1·1	1·1	2·1	0·4	5·5	62·9	40·1
Total Duration.	hr. 1·5	hr. 1·1	hr. 0·7	hr. 0·7	hr. 0·8	hr. 1·0	hr. 2·0	hr. 1·4	hr. 1·1	hr. 0·4	hr. 1·5	hr. 0·8	hr. 2·0	hr. **4·2**	hr. 3·7	hr. 3·6	hr. 2·8	hr. 2·2	hr. 1·0	hr. 1·4	hr. 1·5	hr. 2·2	hr. 0·9	hr. 1·6	hr. 40·1	

492. Richmond (Kew Observatory): H_r = 5·5 metres + 0·53 metres. **June, 1931.**

Day	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr
1	...	...	...	...	...	...	·3	·8	...	...	...	...	·5	·1	...	...	·1	·4	...	...	...	...	...	...	2·2	1·9
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4·0	3·8	1·6	·9	·1	...	...	...	...	·2	**10·6**	**3·8**
6	2·0	·1	·8	·5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·4	2·4
7	...	...	...	...	...	...	...	...	1·3	·1	·9	·4	1·0	...	...	...	...	...	...	·3	·4	...	...	...	4·4	3·0
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	2·5	1·9	·2	·1	2·2	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7·2	3·4
10	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	·2	...	...	...	...	...	...	...	...	...	0·4	0·4
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	·9	·1	·1	...	...	...	1·0	...	...	...	...	...	...	...	...	...	...	...	2·1	1·4
18	...	...	...	...	...	...	...	...	...	...	...	...	1·1	...	...	·8	...	...	...	...	...	...	...	...	1·9	0·7
19	...	...	...	...	...	·4	...	...	·1	2·1	...	2·0	...	·1	...	·7	·6	·5	·2	...	...	...	...	...	6·7	3·2
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	·4	...	...	·3	·5	1·3	·5	·2	...	...	...	...	...	...	...	...	...	...	...	3·2	3·7
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	2·0	0·1	3·3	2·4	0·2	0·9	3·4	1·2	1·8	2·7	2·2	3·1	3·8	0·2	4·2	**5·3**	2·3	1·8	0·3	0·3	0·4	...	...	0·2	42·1	23·9
Total Duration.	hr. 0·6	hr. 0·3	hr. 1·5	hr. 1·4	hr. 0·5	hr. 1·0	hr. **1·7**	hr. 1·0	hr. 1·3	hr. 1·6	hr. 1·6	hr. 1·5	hr. **1·7**	hr. 0·3	hr. 0·6	hr. 1·6	hr. 1·6	hr. 2·2	hr. 0·3	hr. 0·4	hr. 0·8	hr. 0·1	hr. ...	hr. 0·3	hr. 23·9	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts, in millimetres, for periods of sixty minutes between the exact hours, Greenwich Mean Time.

493. Richmond (Kew Observatory): H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 5·5 metres + 0·53 metres. **July, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·1
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	·5	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·6	0·5
6	...	...	...	...	...	...	1·2	·3	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·6	2·4
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	0·1
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·6	·9	1·7	1·4	1·0	1·4	5·7	3·1	15·8	7·6
15	·2	2·4	1·2	·3	1·6	·2	·2	2·0	·1	...	·7	·3	·1	·1	...	...	...	...	...	·8	·2	·1	...	...	10·5	7·4
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	·7	·8	·6	·2	1·0	·1	·2	...	...	...	3·9	5·4
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	0·1	0·1
19	...	...	...	...	...	...	...	...	...	...	·2	1·0	...	...	...	...	·3	...	·1	...	...	...	...	...	1·6	0·9
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·6	·3	·5	...	...	...	...	...	1·4	1·6
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	·2	·5	·3	·1	...	...	...	...	...	9·4	1·0	3·6	1·8	·2	2·6	2·1	2·1	·5	...	**24·4**	**8·5**
26	...	...	...	...	...	...	...	...	...	...	...	...	·3	1·8	1·0	...	·1	·2	·2	·6	...	...	·8	·4	5·4	4·9
27	1·2	·8	·5	·1	...	...	...	...	...	...	·3	...	...	...	...	·8	...	...	...	...	...	...	...	...	3·7	2·6
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	·7	...	...	...	...	...	·2	...	...	...	...	0·9	1·3
30	·5	...	...	...	·8	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·4	...	...	...	3·8	2·1
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	1·9	3·2	1·7	0·4	2·4	0·5	1·9	2·7	0·8	0·2	1·2	1·3	0·4	2·9	**11·1**	2·7	5·8	3·4	3·7	5·7	5·9	3·6	7·0	3·5	73·9	45·6
Total Duration.	hr. 1·9	hr. 1·2	hr. 1·5	hr. 0·8	hr. 1·7	hr. 0·9	hr. 2·4	hr. 2·4	hr. 1·1	hr. 0·3	hr. 0·7	hr. 0·6	hr. 0·5	hr. 2·0	hr. 2·3	hr. 1·8	hr. 3·7	hr. 3·4	hr. 3·0	hr. **4·1**	hr. 3·0	hr. 1·9	hr. 2·6	hr. 1·8	hr. 45·6	

494. Richmond (Kew Observatory): H_r = 5·5 metres + 0·53 metres. **August, 1931.**

Day.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	·3	...	...	...	·1	...	·2	...	...	...	...	...	...	...	...	...	...	...	0·6	1·2
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·9	·8	2·7	1·4
4	·1	...	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	·5	·9	...	...	1·8	1·4
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27·8	·3	...	...	...	**28·1**	1·1
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	1·2	3·8	3·4	3·5	1·1	·2	·3	·1	1·2	·9	...	...	...	...	...	·6	...	·2	·7	·1	·6	·4	18·3	**8·9**
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	·1	·8	1·4	·9	·2	...	...	·3	·7	·1	...	...	·1	·1	...	4·7	5·3
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·2	·1	...	...	...	2·3	0·3
13	...	...	...	...	...	...	...	·1	·1	...	·8	·3	...	...	...	...	...	...	...	·1	...	...	...	...	1·4	1·6
14	...	...	...	...	...	...	...	...	...	7·4	2·4	3·1	1·2	4·4	3·7	·7	·8	·4	3·3	·1	...	...	...	...	27·5	6·1
15	...	...	...	...	·4	·4	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·9	1·2
16	1·1	·2	...	...	...	...	...	·2	·5	...	·7	...	...	...	·6	·7	·2	...	...	...	...	...	...	...	4·2	2·2
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	·2	1·2	2·6	3·6	5·9	6·8	·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	20·7	5·7
20	...	...	...	...	...	...	...	·3	·3	...	...	·8	1·6	...	·2	2·2	1·1	...	...	...	...	...	...	...	6·5	3·1
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	...	...	...	...	...	0·2	0·1
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	1·4	...	...	...	...	·1	·2	·3	·1	...	...	2·1	1·7
31	·4	·5	·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·3	1·7
Sum.	1·6	0·7	2·0	5·0	6·4	7·5	7·3	7·6	1·6	7·7	6·0	6·5	3·9	6·0	4·7	3·6	2·5	1·7	3·5	**30·6**	1·9	1·2	2·6	1·2	123·3	43·3
Total Duration.	hr. 1·2	hr. 1·3	hr. 1·5	hr. 2·0	hr. 2·4	hr. 2·6	hr. 1·9	hr. 1·7	hr. 1·2	hr. 0·9	hr. **3·4**	hr. 2·7	hr. 2·3	hr. 1·9	hr. 0·7	hr. 1·7	hr. 2·1	hr. 1·5	hr. 0·5	hr. 1·9	hr. 2·9	hr. 1·5	hr. 1·8	hr. 1·7	hr. 43·3	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts, in millimetres, for periods of sixty minutes, between the exact hours, Greenwich Mean Time.

495. Richmond (Kew Observatory): H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 5·5 metres + 0·53 metres. **September, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	·7	...	...	...	...	...	...	...	1·9	1·2	2·5	1·6	1·7	1·3	...	...	...	...	...	...	...	...	...	...	10·9	6·2
3	...	...	...	2·2	1·3	...	...	...	...	...	·5	3·2	·2	·3	...	...	...	...	...	...	...	...	·4	2·5	10·6	3·3
4	·2	5·4	3·7	·1	...	·1	·5	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·9	**11·2**	4·2
5	·9	...	·1	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	1·1	1·1
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	·4	1·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·0	0·5
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	·2	·2	·2	·1	...	...	...	·5	·6	·1	1·2	1·5	1·6	2·2	·1	...	·2	...	...	...	...	...	8·7	**8·8**
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	1·4	1·5	·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·3	2·0
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	1·0	1·1	1·2
20	1·0	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·2	1·6
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	·1	...	·1	...	...	...	·1	...	·1	1·1	·5	·2	·1	·1	·5	...	...	...	...	...	...	...	...	2·9	3·7
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	2·8	**5·7**	4·0	3·0	3·1	0·2	0·5	1·5	3·7	2·2	4·7	5·4	3·3	3·3	1·7	2·7	0·1	...	0·2	...	...	...	0·5	4·4	53·0	32·7
Total Duration.	hr. 2·5	hr. 2·0	hr. 2·1	hr. 1·9	hr. 2·0	hr. 0·5	hr. 0·4	hr. 0·7	hr. 2·3	hr. 2·2	hr. **2·9**	hr. 2·5	hr. 2·3	hr. 2·6	hr. 1·1	hr. 1·2	hr. 0·1	hr. ...	hr. 0·4	hr. ...	hr. ...	hr. ...	hr. 0·4	hr. 2·6	hr. 32·7	

496. Richmond (Kew Observatory): H_r = 5·5 metres + 0·53 metres. **October, 1931.**

Day	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration
	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·2	...	...	...	...	...	0·4	0·5
3	...	...	(⌓)	(⌓)	(·1)	(⌓)	(⌓)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·1	...	0·3	0·5
7	·3	2·8	1·6	1·6	·5	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	**6·9**	4·4
8	...	...	...	...	...	...	...	·3	1·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1·4	1·2
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(⌓)	(⌓)	(⌓)	...	...
12	(⌓)	(⌓)	(·1)	(⌓)	(⌓)	(⌓)	(⌓)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	1·0	...	...	...	...	...	...	...	...	...	...	...	1·0	0·4
29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·5	·6	1·3	·4	·5	1·0	·6	·4	5·4	**8·0**
30	·1	...	...	...	...	·7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·8	1·0
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	0·4	**2·8**	1·7	1·6	0·6	0·7	0·1	0·3	1·1	...	...	...	1·0	...	...	0·1	0·5	0·8	1·5	0·4	0·5	1·2	0·7	0·4	16·4	16·0
Total Duration.	hr. 1·0	hr. 0·8	hr. 1·0	hr. 1·0	hr. 0·8	hr. 0·7	hr. 0·1	hr. 0·4	hr. 0·8	hr. ...	hr. ...	hr. ...	hr. 0·4	hr. ...	hr. ...	hr. 0·4	hr. 1·0	hr. **1·5**	hr. 1·1	hr. 1·0	hr. 1·0	hr. 1·2	hr. 1·2	hr. 0·6	hr. 16·0	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

Amounts, in millimetres, for periods of sixty minutes, between the exact hours, Greenwich Mean Time.

497. Richmond (Kew Observatory) : H_r (height of receiving surface above M.S.L.) = H (height of station above M.S.L.) + h_r (height of receiving surface above ground) = 5·5 metres + 0·53 metres. **November, 1931.**

Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	Duration. 0–24
Day.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	·1	·5	(...)	(·1)	·3	1·4	·1	...	...	...	...	...	...	...	...	...	...	...	...	2·5	2·6
5	...	...	...	...	·4	...	·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·8	0·8
6	...	...	(p̲)	(p̲)	(·1)	(p̲)	(p̲)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
7	·2	·1	·4	5·6	2·2	2·4	·6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·3	·5	·7	**13·0**	8·0
8	·5	·1	...	·3	·2	·1	...	...	·2	·2	·3	·8	·2	...	...	...	...	...	...	...	...	...	...	...	2·9	5·3
9	...	...	...	...	...	...	...	...	·4	·1	...	...	·6	2·2	2·9	·1	·3	·2	...	...	...	...	...	...	6·8	3·2
10	...	...	...	...	...	·4	...	...	1·0	·4	...	·3	...	...	...	...	·1	...	·5	...	...	...	...	...	2·7	2·3
11	...	1·4	...	...	...	...	...	...	...	...	...	·3	1·3	...	...	1·2	·4	·2	·3	·5	·2	...	...	...	5·8	3·3
12	...	(p̲)	(p̲)	(p̲)	(·1)	(p̲)	(p̲)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	0·1	0·4
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	·3	1·6	·2	...	·5	·8	·6	·4	·3	·4	·8	·2	6·1	**9·1**
19	...	...	·4	3·0	1·0	·9	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5·5	4·0
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·2	·2	·2	·5	1·1	2·4
24	·7	(...)	(·1)	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·9	1·2
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	...	·1	2·3	·8	·5	·2	...	4·5	3·6
27	...	·2	...	...	...	...	...	...	...	...	...	...	...	·7	...	...	...	...	...	...	...	...	...	...	0·9	0·8
28	...	...	...	...	...	...	...	·2	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·3
29	...	...	...	...	...	...	...	(≡:)	·1	(≡:)	(≡:)	...	...	...	...	...	...	...	(≡:)	(≡:)	(≡:)	(≡:)	(·1)	(≡:)	0·2	...
30	(≡:)	(≡:)	(·1)	(≡:)	(≡:)	(≡:)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
Sum.	1·4	1·9	1·0	**9·0**	4·0	3·9	1·7	0·2	1·9	1·0	1·7	1·5	2·4	4·5	3·1	1·3	1·8	1·2	1·5	3·2	1·5	1·5	1·8	1·4	54·4	47·3
Total Duration.	hr. 1·9	hr. 1·7	hr. 1·4	hr. 2·8	hr. 3·0	hr. 2·7	hr. 2·8	hr. 0·2	hr. 1·4	hr. 2·0	hr. 1·3	hr. 1·5	hr. 1·5	hr. 2·4	hr. 1·3	hr. 0·7	hr. 2·1	hr. 1·4	hr. 1·8	hr. 2·3	hr. 2·7	hr. **3·2**	hr. 2·9	hr. 2·3	hr. 47·3	

498. Richmond (Kew Observatory) : H_r = 5·5 metres + 0·53 metres. **December, 1931.**

Day	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	hr.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	·4	1·6	1·4	·7	·1	·3	·3	...	...	...	...	...	...	...	...	...	...	**4·8**	**4·3**
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·5	...	...	·9	·9	·1	·1	...	...	2·5	2·5
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	·1	·4	·1	...	·4	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	1·1	2·8
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	·1	·2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	0·6
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	·2	·4	·2	·4	·2	...	...	...	1·5	4·1
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(⊔)	(⊔)	(⊔)	...	...
18	(⊔)	(⊔)	(·1)	(⊔)	(⊔)	(⊔)	(⊔)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	·3	·4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·7	1·7
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	(p̲)	(p̲)	(·1)	(p̲)	(p̲)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·1	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	·6	...	·5	...	...	...	...	...	...	...	...	1·1	0·7
29	...	...	...	...	...	...	...	·3	1·0	...	...	...	...	...	...	...	...	...	·2	...	...	...	...	...	1·5	1·2
30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	...	...	0·2	...	...	0·1	0·7	1·3	**2·8**	1·8	0·8	0·1	0·3	0·9	...	1·1	0·2	0·4	1·3	1·3	0·3	0·1	...	...	13·7	17·9
Total Duration.	hr. ...	hr. ...	hr. ...	hr. ...	hr. ...	hr. 0·1	hr. 1·7	hr. **2·1**	hr. **2·1**	hr. 2·0	hr. 1·0	hr. 0·1	hr. 0·6	hr. 0·8	hr. 0·1	hr. 1·5	hr. 0·7	hr. 1·0	hr. 1·7	hr. 1·4	hr. 0·7	hr. 0·3	hr. ...	hr. ...	hr. 17·9	
Hour. G.M.T.	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14	14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	0–24	

NOTE.—For Annual Totals, see table 485.

For periods of sixty minutes, between the exact hours of Local Apparent Time.

499. Richmond (Kew Observatory): h_s (Height of recorder above ground) = **13·3** metres. **January, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Radiation at Noon. Ångström Pyrheliometer. Sky.	Total.	Vertical.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%		mw/cm²	mw/cm²
1	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
2	—	—	—	—	—	...	·9	1·0	1·0	1·0	1·0	·4	...	—	—	—	—	—	5·3	67	Haze	52	14
3	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
4	—	—	—	—	...	...	...	...	·4	·7	·8	...	...	—	—	—	—	—	1·9	24	...	...	...
5	—	—	—	—	—	...	...	·5	1·0	1·0	1·0	·6	...	—	—	—	—	—	4·1	52	...	...	...
6	—	—	—	—	—	...	...	...	...	·4	1·0	·8	...	—	—	—	—	—	2·2	28	...	...	...
7	—	—	—	—	—	...	...	...	·2	1·0	·1	·1	...	—	—	—	—	—	1·4	18	...	...	...
8	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
9	—	—	—	—	—	...	...	...	·5	1·0	1·0	·6	...	—	—	—	—	—	3·1	39	...	...	...
10	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
11	—	—	—	—	...	...	...	...	·3	·2	...	...	...	...	—	—	—	—	0·5	6	...	...	...
12	—	—	—	—	...	...	...	·4	...	...	·2	·5	...	...	—	—	—	—	1·1	13	...	...	...
13	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
14	—	—	—	—	...	·2	1·0	1·0	1·0	1·0	1·0	1·0	...	...	—	—	—	—	6·2	75	...	...	...
15	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
16	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
17	—	—	—	—	...	...	...	·5	·7	·1	·7	·3	...	...	—	—	—	—	2·3	28	...	...	...
18	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
19	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
20	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
21	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
22	—	—	—	—	...	...	...	·1	...	...	...	...	...	...	—	—	—	—	0·1	1	...	...	...
23	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
24	—	—	—	—	...	·4	1·0	1·0	1·0	·9	·7	1·0	·6	...	—	—	—	—	**6·6**	**76**	Clear	70	23
25	—	—	—	—	...	·6	1·0	1·0	1·0	·9	·5	·7	·7	...	—	—	—	—	6·4	74	Clear	62	21
26	—	—	—	—	...	·5	·3	·9	1·0	·6	·7	·7	·1	...	—	—	—	—	4·8	55	...	...	...
27	—	—	—	—	...	·6	1·0	1·0	1·0	1·0	1·0	·9	...	...	—	—	—	—	6·5	74	Haze	49	17
28	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
29	—	—	—	—	...	·7	·4	...	...	...	...	...	...	...	—	—	—	—	1·1	12	...	...	...
30	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
31	—	—	—	—	...	...	...	·3	·4	...	...	...	...	...	—	—	—	—	0·7	8	...	...	...
Sum.	—	—	—	—	...	3·0	5·6	7·7	9·5	**9·8**	9·7	7·6	1·4	...	—	—	—	—	54·3	—	—	—	—
Mean	—	—	—	—	...	·10	·18	·25	·31	**·32**	·31	·25	·05	...	—	—	—	—	1·75	21	—	—	—

500. Richmond (Kew Observatory): h_s = **13·3** metres. **February, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Radiation at Noon. Ångström Pyrheliometer. Sky.	Total.	Vertical.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%		mw/cm²	mw/cm²
1	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
2	—	—	—	—	...	·1	·7	...	...	·8	1·0	1·0	·1	...	—	—	—	—	3·7	41	...	...	...
3	—	—	—	—	...	...	...	...	...	...	...	·2	...	...	—	—	—	—	0·2	2	...	...	...
4	—	—	—	—	...	...	...	·6	·4	·1	...	...	...	...	—	—	—	—	1·1	12	...	...	...
5	—	—	—	—	...	...	...	...	...	...	·1	...	...	...	—	—	—	—	0·1	1	...	...	...
6	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
7	—	—	—	—	...	...	...	...	...	...	·5	...	...	...	—	—	—	—	0·5	5	...	...	...
8	—	—	—	—	...	...	...	...	·2	...	...	...	...	...	—	—	—	—	0·2	2	...	...	...
9	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
10	—	—	—	—	...	...	...	...	·1	·3	·7	·9	·9	·2	—	—	—	—	3·1	32	...	...	...
11	—	—	—	—	...	...	·9	·8	·3	·2	...	...	...	...	—	—	—	—	2·2	23	...	...	...
12	—	—	—	—	·1	·7	·9	·8	·8	·6	·5	·3	·7	...	—	—	—	—	5·4	56	...	...	...
13	—	—	—	—	...	·2	...	·1	·1	...	·3	1·0	1·0	·1	—	—	—	—	2·8	29	...	...	...
14	—	—	—	—	·2	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·2	...	—	—	—	—	**7·4**	**75**	Clear	55	23
15	—	—	—	—	...	...	·2	...	...	·6	·3	·2	·9	...	—	—	—	—	2·2	22	...	...	...
16	—	—	—	—	...	...	·1	...	1·0	1·0	·5	...	...	...	—	—	—	—	2·6	26	...	...	...
17	—	—	—	—	...	...	...	...	...	...	·3	·8	...	...	—	—	—	—	1·1	11	...	...	...
18	—	—	—	—	...	...	...	·1	·1	...	...	...	...	...	—	—	—	—	0·2	2	...	...	...
19	—	—	—	...	...	·6	·3	·9	·2	·6	·7	·6	·1	...	...	—	—	—	4·0	39	...	...	...
20	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...	...	...	...
21	—	—	—	...	...	...	·3	·2	1·0	·9	·9	·7	1·0	·4	...	—	—	—	5·4	53	...	...	...
22	—	—	—	...	·9	1·0	·1	·9	1·0	·8	·3	·3	·2	...	...	—	—	—	5·5	53	...	...	...
23	—	—	—	...	...	...	·4	·7	·6	·2	·4	·2	·1	...	...	—	—	—	2·6	25	...	...	...
24	—	—	—	...	...	...	·8	1·0	1·0	·9	1·0	·3	...	...	...	—	—	—	5·0	48	...	...	...
25	—	—	—	...	...	...	...	...	·1	·1	·1	...	...	...	...	—	—	—	0·3	3	...	...	...
26	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...	...	...	...
27	—	—	—	...	...	·5	1·0	·2	...	...	...	...	...	...	...	—	—	—	1·7	16	...	...	...
28	—	—	—	...	...	...	...	...	...	·3	·3	1·0	·5	·2	...	—	—	—	2·3	21	...	...	...
Sum.	—	—	—	...	1·2	4·1	6·7	7·3	7·9	8·4	**8·9**	8·5	5·7	0·9	...	—	—	—	59·6	—	—	—	—
Mean	—	—	—	...	·04	·15	·24	·26	·28	·30	**·32**	·30	·20	·03	...	—	—	—	2·13	22	—	—	—
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Sky. Radiation at Noon. Ångström Pyrheliometer.	Total.	Vertical.

For periods of sixty minutes, between the exact hours of Local Apparent Time.

501. Richmond (Kew Observatory): h_s (Height of recorder above ground) = **13·3** metres. **March, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Radiation at Noon. Ångström Pyrheliometer. Sky.	Total.	Vertical.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%		mw/cm²	mw/cm²
1	—	—	—	...	·6	·7	·9	1·0	1·0	·9	1·0	·4	·1	...	...	—	—	—	6·6	61	...	...	...
2	—	—	—	...	...	...	·1	·4	·6	·4	·9	·7	·3	·2	...	—	—	—	3·6	33	...	...	...
3	—	—	—	...	...	...	...	...	·8	...	...	...	...	...	...	—	—	—	0·8	7	...	...	...
4	—	—	—	...	...	...	...	...	...	...	...	·2	...	...	...	—	—	—	0·2	2	...	...	...
5	—	—	—	...	...	...	...	·9	·8	...	...	·8	·2	...	...	—	—	—	2·7	24	...	...	...
6	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...	...	...	...
7	—	—	—	...	...	...	·5	·6	·6	·7	·5	·7	·1	...	...	—	—	—	3·7	33	...	...	...
8	—	—	—	...	...	...	·4	·5	·6	·2	·5	·5	·6	·2	...	—	—	—	3·5	31	...	...	...
9	—	—	—	...	...	·2	·6	...	...	...	...	·6	·4	...	...	—	—	—	1·8	16	...	...	...
10	—	—	—	...	...	...	·7	...	·2	·1	·5	·2	...	...	...	—	—	—	1·7	15	...	...	...
11	—	—	—	...	1·0	1·0	·2	·2	·1	...	...	...	...	...	...	—	—	—	2·5	22	...	...	...
12	—	—	—	...	·4	·9	·9	1·0	1·0	1·0	1·0	1·0	1·0	·6	...	—	—	—	8·8	**76**	...	...	...
13	—	—	—	...	·2	1·0	1·0	1·0	1·0	·9	1·0	·9	·7	·3	...	—	—	—	8·0	69	Clear	72	41
14	—	—	—	...	·9	1·0	·8	·9	·8	·9	·9	·8	·3	1·0	·2	—	—	—	8·5	73	Haze	67	39
15	—	—	—	...	...	...	·2	1·0	1·0	1·0	·7	1·0	·4	·1	...	—	—	—	5·4	46	...	...	...
16	—	—	—	...	...	...	·4	1·0	·4	...	...	...	...	...	...	—	—	—	1·8	15	...	...	...
17	—	—	—	...	·1	1·0	·6	·7	·2	·7	1·0	1·0	1·0	·3	...	—	—	—	6·6	56	...	...	...
18	—	—	—	...	·4	1·0	·9	1·0	1·0	1·0	1·0	·8	·7	·3	...	—	—	—	8·1	68	Haze	54	33
19	—	—	—	...	...	·8	·9	1·0	1·0	·8	·7	·6	...	...	...	—	—	—	5·8	49	...	...	...
20	—	—	—	...	...	...	·5	1·0	1·0	1·0	·9	1·0	·8	·2	...	—	—	—	6·4	53	Clear	70	43
21	—	—	...	...	...	·6	·5	·5	...	...	...	...	...	...	...	...	—	—	1·6	13	...	...	...
22	—	—	...	...	...	...	·7	1·0	·9	·8	·8	·9	...	...	...	...	—	—	5·1	42	...	...	...
23	—	—	...	...	...	...	...	...	...	·1	·9	·1	...	...	...	...	—	—	1·1	9	...	...	...
24	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...	...	...	...
25	—	—	...	...	...	...	...	...	·6	1·0	1·0	1·0	1·0	1·0	...	...	—	—	5·6	45	...	...	...
26	—	—	...	...	...	...	·3	·9	1·0	1·0	1·0	1·0	1·0	1·0	·1	...	—	—	7·3	59	...	...	...
27	—	—	...	...	...	...	...	1·0	1·0	1·0	1·0	1·0	1·0	·3	...	...	—	—	6·3	50	Haze	65	43
28	—	—	...	...	·2	·1	...	...	...	...	·2	...	...	...	...	...	—	—	0·5	4	...	...	...
29	—	—	...	...	...	·1	...	...	...	...	...	...	...	...	...	...	—	—	0·1	1	...	...	...
30	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...	...	...	...
31	—	—	...	·1	·3	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·7	...	...	—	—	**9·1**	71	...	...	...
Sum.	—	—	...	0·1	4·1	9·4	12·1	**16·6**	**16·6**	14·5	16·5	16·2	10·6	6·2	0·3	...	—	—	123·2	—	—	—	—
Mean	—	—	...	·00	·13	·30	·39	**·54**	**·54**	·47	·53	·52	·34	·20	·01	...	—	—	3·97	34	—	—	—

502. Richmond (Kew Observatory): h_s = **13·3** metres. **April, 1931.**

	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%		mw/cm²	mw/cm²
1	—	—	...	·8	1·0	1·0	1·0	1·0	·9	·7	...	...	...	...	...	...	—	—	6·4	50	...	...	...
2	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...	...	...	...
3	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...	...	...	...
4	—	—	...	·9	1·0	1·0	1·0	·8	1·0	1·0	1·0	1·0	·8	·5	...	...	—	—	10·0	77	...	...	...
5	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...	...	...	...
6	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...	...	...	...
7	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...	...	...	...
8	—	—	...	...	...	...	·2	...	...	·6	1·0	·8	·8	·2	·4	...	—	—	4·0	30	...	...	...
9	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...	...	...	...
10	—	—	...	...	...	·6	1·0	1·0	1·0	1·0	1·0	·8	·8	·2	...	...	—	—	7·4	55	Clear	60	44
11	—	—	...	...	...	·2	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	...	—	—	9·2	68	...	...	...
12	—	—	·1	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·8	·4	...	...	...	—	—	9·3	69	...	...	...
13	—	—	·3	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·9	·4	·4	...	—	—	**11·0**	**81**	...	...	...
14	—	—	...	...	...	...	...	...	...	...	...	...	...	·4	·1	...	—	—	0·5	4	...	...	...
15	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...	...	...	...
16	—	—	...	...	...	...	...	...	...	...	·5	...	...	...	...	...	—	—	0·5	4	...	...	...
17	—	—	...	...	·1	·7	·9	·8	·8	·5	·5	1·0	·9	·5	·5	...	—	—	7·2	52	...	...	...
18	—	—	...	...	...	...	·1	·1	·7	·7	·7	·4	·5	...	...	...	—	—	3·2	23	...	...	...
19	—	—	...	·2	·5	...	...	...	...	...	...	...	...	...	...	...	—	—	0·7	5	...	...	...
20	—	—	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	—	—	0·1	1	...	...	...
21	—	...	...	...	·9	·2	1·0	·8	·5	·3	·3	...	·3	·3	...	...	...	—	4·6	33	...	...	...
22	—	...	...	·7	1·0	1·0	1·0	·8	·4	·2	·9	·4	·3	·2	·3	...	...	—	7·2	51	...	...	...
23	—	...	...	...	·1	·2	·1	·3	·2	·9	·9	·9	·9	·7	·2	...	...	—	5·4	38	...	...	...
24	—	...	...	·3	·3	·3	·3	·6	·8	·7	...	...	...	...	...	...	...	—	3·3	23	...	...	...
25	—	...	...	...	...	...	...	...	·8	·6	...	...	...	...	·3	·1	...	—	1·8	13	...	...	...
26	—	...	...	...	·5	·6	·3	·5	·3	·1	...	·3	...	...	...	...	...	—	2·6	18	...	...	...
27	—	...	...	...	·3	·3	·5	·5	·2	...	·1	·5	·2	·5	1·0	·7	...	—	4·8	33	...	...	...
28	—	...	·2	·1	...	·3	·1	·1	·1	...	...	...	...	...	...	...	...	—	0·9	6	...	...	...
29	—	...	...	...	...	...	...	...	·1	·4	...	·1	·7	1·0	·6	...	...	—	2·9	20	...	...	...
30	—	...	...	·1	1·0	1·0	1·0	1·0	1·0	·8	·9	·1	·5	·9	1·0	·7	...	—	10·0	68	Clear	61	49
Sum.	—	...	0·6	5·1	8·7	9·4	11·5	11·3	**11·8**	11·5	10·8	9·1	9·0	6·9	5·8	1·5	...	—	113·0	—	—	—	—
Mean	—	...	·02	·17	·29	·31	·38	·38	**·39**	·38	·36	·30	·30	·23	·19	·05	...	—	3·77	27	—	—	—
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Sky.	Total.	Vertical.
																					Radiation at Noon. Ångström Pyrheliometer.		

For periods of sixty minutes, between the exact hours of Local Apparent Time.

503. Richmond (Kew Observatory) : h_s (Height of recorder above ground) = 13·3 metres. **May, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Radiation at Noon. Ångström Pyrheliometer. Sky.	Total.	Vertical.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%		mw/cm²	mw/cm²
1	—	...	...	...	...	...	1·0	·6	·1	·4	·2	·5	...	...	...	...	...	—	2·8	19	...	...	...
2	—	...	...	...	·2	·8	·5	·2	·2	...	...	...	...	...	...	...	...	—	1·9	13	...	...	...
3	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...	...	...	...
4	—	...	...	...	·6	·9	1·0	·8	·8	·8	·6	·4	·2	·1	...	...	...	—	6·2	42	...	...	...
5	—	...	·4	...	...	·2	·7	·4	·8	1·0	·8	·6	·7	·5	·8	·9	...	—	7·8	52	...	...	...
6	—	...	·8	1·0	1·0	·7	·1	·8	·9	1·0	·9	1·0	1·0	·8	·7	·2	...	—	10·9	73	...	...	...
7	—	...	·8	1·0	1·0	1·0	1·0	·7	·2	...	...	...	·3	·2	1·0	1·0	...	—	8·2	54	...	...	...
8	—	...	...	...	...	...	...	·5	·9	·6	...	...	·5	·8	·9	...	...	—	4·2	28	...	...	...
9	—	...	...	·3	1·0	1·0	·8	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·9	·5	...	—	11·5	76	...	...	...
10	—	...	...	...	...	·7	1·0	·2	...	...	...	...	...	...	...	...	...	—	1·9	12	...	...	...
11	—	...	...	...	·5	...	...	·3	·2	·9	·8	·6	·5	·1	...	...	...	—	3·9	25	...	...	...
12	—	...	...	...	·5	·5	·2	...	·2	·2	1·0	·9	·7	·9	·9	·5	...	—	6·5	42	...	...	...
13	—	...	...	1·0	·5	·4	·9	1·0	1·0	1·0	1·0	·8	·2	·5	·2	...	...	—	8·5	55	Clear	83	69
14	—	...	...	·7	·7	·7	·3	·8	1·0	1·0	1·0	·9	·6	·3	...	...	...	—	8·0	52	...	...	...
15	—	...	...	...	...	...	...	...	...	...	...	...	...	·1	·3	...	...	—	0·4	3	...	...	...
16	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...	...	...	...
18	—	...	...	...	...	...	...	...	...	...	·4	·4	...	...	...	...	...	—	0·8	5	...	...	...
19	—	...	...	·1	...	·1	...	...	...	...	...	...	...	...	...	...	...	—	0·2	1	...	...	...
20	—	...	·1	·2	...	...	...	...	...	...	...	·3	·3	·2	...	·2	...	—	1·3	8	...	...	...
21	—	...	...	1·0	1·0	1·0	·9	1·0	·9	·7	...	...	...	...	...	...	...	—	6·5	41	Haze	49	42
22	—	...	...	...	...	...	...	·2	...	·2	·8	·8	·8	·9	1·0	·8	·3	—	5·8	37	...	...	...
23	—	...	...	...	...	·1	·1	...	...	...	...	...	...	...	...	...	...	—	0·2	1	...	...	...
24	—	...	...	...	...	...	...	...	·2	·4	·8	·9	·9	·1	·5	·1	...	—	3·9	25	...	...	...
25	—	...	·6	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·5	...	—	**13·1**	**82**	...	...	...
26	—	...	·2	·6	1·0	1·0	1·0	1·0	1·0	·9	·8	·4	·1	·1	·1	·1	...	—	8·3	52	...	...	...
27	—	...	·4	·5	1·0	1·0	1·0	·7	·9	1·0	·9	·3	·3	·8	·5	...	...	—	9·3	58	...	...	...
28	—	...	...	...	...	...	...	...	...	·4	·7	1·0	1·0	·7	1·0	1·0	·6	—	6·4	40	...	...	...
29	...	...	·7	·5	·9	·3	·5	·4	...	...	·1	·5	·9	1·0	1·0	·8	·3	...	7·9	49	...	...	...
30	...	·1	1·0	·9	1·0	1·0	·9	·4	·3	...	...	...	...	...	...	...	...	...	5·6	35	...	...	...
31	...	...	·3	1·0	1·0	·9	1·0	·4	·2	·3	·3	·3	·4	1·0	·3	...	·1	...	7·5	46	...	...	...
Sum.	...	0·1	5·3	9·8	12·9	13·3	**13·9**	12·4	11·8	12·8	13·1	12·6	11·4	11·1	11·1	6·6	1·3	...	159·5	—	—	—	—
Mean	...	·00	·17	·32	·42	·43	**·45**	·40	·38	·41	·42	·41	·37	·36	·36	·21	·04	...	5·15	33	—	—	—

504. Richmond (Kew Observatory) : h_s = 13·3 metres. **June, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Radiation at Noon. Ångström Pyrheliometer. Sky.	Total.	Vertical.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%		mw/cm²	mw/cm²
1	...	...	...	·2	...	·3	·1	·2	...	...	...	·9	·9	·1	·1	·4	...	...	3·2	20	Haze	64	56
2	...	...	...	·3	·4	·3	...	·8	1·0	1·0	·9	·9	·2	...	...	...	...	...	5·8	36	...	...	...
3	...	...	...	...	...	...	·7	·3	·8	·4	·6	·9	1·0	1·0	1·0	·1	...	...	6·8	42	...	...	...
4	...	...	...	...	...	·8	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·2	...	11·0	67	...	...	...
5	...	...	...	...	...	·2	·8	·8	·5	·3	·6	·1	...	...	...	...	...	...	3·3	20	...	...	...
6	...	...	...	...	...	·7	·8	·7	·7	1·0	·3	·7	1·0	·8	·1	·6	·2	...	7·6	46	...	...	...
7	...	...	·2	·3	·4	...	...	...	...	·4	·7	...	...	...	...	...	...	...	2·0	12	...	...	...
8	...	...	...	...	...	·8	·9	·7	·8	·6	·4	·6	·3	·1	·3	...	...	...	5·5	34	...	...	...
9	...	...	...	...	...	...	...	...	...	...	·3	·1	·1	...	...	...	...	...	0·5	3	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	·3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·3	2	...	...	...
12	...	...	...	...	...	...	...	·6	·7	·9	·9	1·0	1·0	·9	1·0	1·0	·9	...	8·9	54	...	...	...
13	...	...	·6	1·0	·8	1·0	1·0	1·0	1·0	1·0	1·0	·7	·2	...	...	...	...	...	9·3	56	...	...	...
14	...	...	...	...	·3	...	·4	·6	·2	...	·4	·1	·7	1·0	·9	·9	...	...	5·5	33	...	...	...
15	...	...	·8	1·0	1·0	1·0	1·0	1·0	·9	·9	·9	·5	·5	1·0	1·0	·4	·1	...	12·0	73	...	...	...
16	...	...	·2	·5	·8	·8	·2	·3	·7	·2	·1	...	...	·1	·3	·2	...	...	4·4	27	...	...	...
17	...	...	...	...	...	...	·3	·5	·9	·3	·8	·1	...	·2	·5	...	·4	...	4·0	24	...	...	...
18	...	·4	1·0	·2	·3	·7	·4	·1	·6	...	·1	·1	·3	·3	·2	·2	...	...	4·9	30	...	...	...
19	...	...	...	·1	·1	·5	...	·7	...	·5	·5	·8	·2	·1	...	...	...	...	3·5	21	...	...	...
20	...	...	...	...	...	...	...	·3	...	·1	·3	·5	·2	·5	·7	·2	...	...	2·8	17	...	...	...
21	...	...	...	...	·5	·6	·2	·2	·4	·2	·6	1·0	1·0	·5	·7	·9	·2	...	7·0	42	...	...	...
22	...	...	...	...	·2	1·0	1·0	·8	·9	·9	·3	·3	...	·1	·8	·4	·5	...	7·2	43	Clear	85	75
23	...	...	...	...	·4	...	...	...	...	...	·2	·7	·9	·6	...	...	...	...	2·8	17	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	·2	·9	...	...	...	...	...	·1	...	...	...	...	·2	·7	...	...	...	2·1	13	...	...	...
26	...	...	...	·9	1·0	1·0	·7	1·0	1·0	·8	·6	·8	·8	1·0	·9	·6	·6	...	11·7	71	...	...	...
27	...	...	·7	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·6	...	**14·3**	**86**	...	...	...
28	...	·1	·4	...	...	...	·1	·3	·6	·9	·8	·8	·8	·7	1·0	1·0	·5	...	8·0	48	...	...	...
29	...	...	...	·5	1·0	1·0	1·0	1·0	·9	1·0	·9	·9	1·0	1·0	1·0	1·0	·2	...	12·4	75	Clear	85	75
30	...	·1	1·0	·4	·7	·8	1·0	·8	·9	·4	·4	·5	·2	·2	...	...	...	...	7·4	45	Haze	64	56
Sum.	...	0·8	5·8	6·7	8·9	12·5	12·6	14·7	**15·6**	13·8	14·6	15·0	13·3	12·4	13·2	9·9	4·4	...	174·2	—	—	—	—
Mean	...	·03	·19	·22	·30	·42	·42	·49	**·52**	·46	·49	·50	·44	·41	·44	·33	·15	...	5·81	35	—	—	—
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Sky. Radiation at Noon. Ångström Pyrheliometer.	Total.	Vertical.

For periods of sixty minutes, between the exact hours of Local Apparent Time.

505. Richmond (Kew Observatory): h_s (Height of recorder above ground) = **13·3** metres. **July, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Radiation at Noon. Ångström Pyrheliometer. Sky.	Total.	Vertical.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%		mw/cm²	mw/cm²
1	...	...	·7	1·0	1·0	1·0	·9	·2	·3	·7	·8	...	·8	·6	·5	...	...	...	8·5	52	...	...	...
2	...	...	...	...	...	...	...	...	·1	·2	...	...	...	·3	·7	·2	...	...	1·5	9	...	...	...
3	...	·2	1·0	1·0	1·0	·9	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·7	...	**14·8**	**90**	Clear	85	75
4	...	...	...	...	...	·1	·3	·4	·6	...	...	...	...	...	...	...	...	...	1·4	8	...	...	...
5	...	...	...	·1	...	...	·2	·2	·7	·1	·3	·1	...	...	...	...	...	...	1·7	10	...	...	...
6	...	...	...	...	...	·3	·9	·6	·7	·6	·9	·9	1·0	1·0	1·0	1·0	·7	...	9·6	58	...	...	...
7	...	...	...	·6	·5	·6	1·0	·8	1·0	·8	·9	·9	·7	·8	...	...	...	...	8·6	53	Clear	85	75
8	...	...	·3	1·0	·6	·8	·8	·2	...	·1	·3	·6	...	...	...	...	...	...	4·7	29	...	...	...
9	...	...	·5	·5	1·0	1·0	1·0	1·0	·9	·9	1·0	·2	...	...	·2	·5	·2	...	8·9	55	...	...	...
10	...	·1	·1	...	·2	·5	·1	·3	·2	...	·3	·8	·9	·8	·7	·7	·1	...	5·8	36	...	...	...
11	...	...	...	...	...	·8	·7	·3	1·0	·8	·7	·8	·2	·7	·8	·9	·4	...	8·1	50	...	...	...
12	...	...	...	...	...	...	·2	·8	·5	·2	...	1·0	·7	·9	·3	·3	...	...	4·9	30	...	...	...
13	...	·2	·6	·5	·1	·9	...	·4	·2	·5	·1	·3	·1	·6	·8	1·0	·3	...	6·6	41	...	...	...
14	...	...	·5	1·0	·9	...	...	...	·1	·7	·7	·1	...	...	...	...	...	...	4·0	25	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	·3	·7	1·0	·8	·7	·1	·9	·9	·8	·5	...	...	...	...	6·7	42	...	...	...
17	—	...	...	...	...	...	·2	·2	·2	...	...	...	...	...	...	...	...	—	0·6	4	...	...	...
18	—	...	...	...	...	...	...	...	...	...	...	...	...	·1	·5	...	...	—	0·6	4	...	...	...
19	—	...	...	...	...	...	·6	·1	·2	...	...	·5	...	·5	·4	·1	...	—	2·4	15	...	...	...
20	—	...	·3	...	...	·2	·6	·7	·1	...	...	·6	...	...	...	...	...	—	2·5	16	...	...	...
21	—	...	·5	1·0	1·0	1·0	·9	·2	·1	·3	·1	·3	...	·3	...	...	...	—	5·7	36	...	...	...
22	—	...	...	...	...	...	·2	·5	·5	·7	·6	·8	1·0	·7	·7	1·0	·1	—	6·8	43	...	...	...
23	—	...	·2	·8	1·0	·8	1·0	·3	·7	1·0	1·0	1·0	1·0	1·0	·6	·1	...	—	10·5	66	...	...	...
24	—	...	·1	·3	...	·5	·9	1·0	1·0	·9	·9	·9	·8	·2	·8	·2	·1	—	8·6	54	...	...	...
25	—	...	...	...	...	...	·1	...	·2	·1	·3	...	...	...	...	...	...	—	0·7	4	...	...	...
26	—	...	...	·1	·1	·1	...	...	...	...	...	...	...	...	...	...	...	—	0·3	2	...	...	...
27	—	...	·4	·4	1·0	·9	·6	...	·2	·8	·8	·4	·3	·3	·6	·2	...	—	6·9	44	...	...	...
28	—	...	·3	·2	...	...	·1	·1	·2	·2	·4	·3	·2	...	...	...	...	—	2·0	13	...	...	...
29	—	...	·3	1·0	1·0	1·0	·2	...	...	...	...	...	...	·1	...	...	...	—	3·6	23	...	...	...
30	—	...	...	...	...	·3	·3	·2	...	...	...	...	·1	·3	·2	·2	...	—	1·6	10	...	...	...
31	—	...	...	...	...	...	...	...	...	...	...	...	·4	·8	·9	...	...	—	2·1	14	...	...	...
Sum.	...	0·5	5·8	9·5	9·7	12·4	**13·8**	10·3	11·4	10·7	12·0	12·4	10·0	11·5	10·7	7·4	2·6	...	150·7	—	—	—	—
Mean	...	·02	·19	·31	·31	·40	**·45**	·33	·37	·35	·39	·40	·32	·37	·35	·24	·08	...	4·86	30	—	—	—

506. Richmond (Kew Observatory): h_s = **13·3** metres. **August, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Radiation at Noon Ångström Pyrheliometer. Sky.	Total.	Vertical.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%		mw/cm²	mw/cm²
1	—	...	...	·1	·6	·6	·9	·9	·7	·2	·1	·5	·5	...	...	...	...	—	5·1	33	...	...	...
2	—	...	...	...	...	...	...	...	...	...	...	...	...	...	·1	...	...	—	0·1	1	...	...	...
3	—	...	...	...	...	·3	·9	·6	1·0	1·0	·8	·5	·1	...	...	...	...	—	5·2	34	...	...	...
4	—	...	...	...	...	...	...	...	·8	·8	·6	...	...	...	·1	...	...	—	2·3	15	...	...	...
5	—	...	...	...	...	...	...	...	...	·1	·7	·8	·4	...	·1	...	...	—	2·1	14	...	...	...
6	—	...	...	...	...	...	...	...	...	...	...	·1	·1	...	...	...	...	—	0·2	1	...	...	...
7	—	...	...	·3	·9	·8	·8	·9	·8	·7	·3	·2	·7	·2	·3	...	...	—	6·9	46	...	...	...
8	—	...	...	...	·4	·2	·2	...	·4	·3	·4	·9	·9	·4	...	...	...	—	4·1	27	...	...	...
9	—	...	·9	1·0	·9	1·0	1·0	·8	·8	·3	·3	...	·2	·5	·4	·6	...	—	8·7	58	Clear	80	65
10	—	...	...	·1	...	...	...	...	...	...	...	...	...	...	...	...	...	—	0·1	1	...	...	...
11	—	...	·7	1·0	·8	·2	1·0	·9	·9	·3	...	·1	...	...	...	...	...	—	5·9	40	...	...	...
12	—	...	...	·7	·9	·9	·9	·9	·9	1·0	1·0	·5	...	·3	·2	·2	...	—	8·4	57	...	...	...
13	—	...	...	...	...	...	...	...	·7	·7	·1	...	...	...	...	...	...	—	1·5	10	...	...	...
14	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	...	...	...	...	...
15	—	...	...	·1	1·0	1·0	·6	1·0	·9	1·0	1·0	·8	·7	·9	1·0	·8	...	—	10·8	74	...	...	...
16	—	...	...	...	·2	·5	·5	·6	·9	·7	·3	·2	·8	·5	·4	...	...	—	5·6	38	...	...	...
17	—	...	·1	·2	·5	...	·3	·3	·6	1·0	·9	·9	1·0	·9	1·0	·8	...	—	8·5	59	...	...	...
18	—	...	...	...	·6	1·0	1·0	·9	1·0	1·0	1·0	·8	·3	·5	...	...	...	—	8·1	56	Clear	80	62
19	—	...	...	...	...	...	...	...	...	...	·5	...	·4	·4	·4	...	...	—	1·7	12	...	...	...
20	—	...	·5	·7	·4	·4	·8	·6	...	...	...	...	...	...	...	·1	...	—	3·5	24	...	...	...
21	—	...	...	...	...	...	...	·1	...	...	·2	...	·2	...	·1	...	...	—	0·6	4	...	...	...
22	—	...	...	...	...	·3	·7	·8	...	...	...	...	...	...	...	...	...	—	1·8	13	...	...	...
23	—	...	...	·3	·8	·2	...	...	·1	...	...	...	·5	·5	...	...	...	—	2·4	17	...	...	...
24	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...	...	...	...
25	—	—	...	·1	·6	1·0	·9	·4	·4	·5	·3	·5	·4	·1	·1	·2	—	—	5·5	39	...	...	...
26	—	—	...	·3	1·0	1·0	1·0	1·0	1·0	·8	1·0	·9	1·0	1·0	·3	...	—	—	10·3	74	Haze	70	53
27	—	—	...	·2	1·0	1·0	·9	·8	·9	1·0	1·0	1·0	·9	·7	·3	...	—	—	9·7	70	Clear	75	56
28	—	—	...	...	·4	·5	·3	·9	·3	1·0	·9	·4	...	...	...	...	—	—	4·7	34	...	...	...
29	—	—	...	·8	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·7	...	—	—	**11·5**	**84**	...	...	...
30	—	—	...	...	...	...	...	...	...	·1	...	·1	·2	...	...	...	—	—	0·4	3	...	...	...
31	—	—	...	...	...	...	...	...	...	...	...	...	...	·2	...	...	—	—	0·2	1	...	...	...
Sum.	—	...	2·2	5·9	12·0	11·9	13·7	13·4	**14·1**	13·5	12·4	10·2	10·3	8·1	5·5	2·7	...	—	135·9	—	—	—	—
Mean	—	...	·07	·19	·39	·38	·44	·43	**·45**	·44	·40	·33	·33	·26	·18	·09	...	—	4·38	30	—	—	—
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Sky.	Total.	Vertical.
																					Radiation at Noon Ångström Pyrheliometer.		

For periods of sixty minutes, between the exact hours of Local Apparent Time.

507. Richmond (Kew Observatory) : h_s (Height of recorder above ground) = 13·3 metres. **September, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Radiation at Noon. Ångström Pyrheliometer. Sky.	Total.	Vertical.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%		mw/cm²	mw/cm²
1	—	—	...	...	...	...	...	...	...	...	...	·1	...	...	...	...	—	—	0·1	1	...	...	...
2	—	—	...	...	...	...	...	...	...	...	...	...	...	·3	·9	·3	—	—	1·5	11	...	...	...
3	—	—	...	·5	·9	·2	·7	·6	...	·6	·8	1·0	·6	·5	·7	·3	—	—	7·4	55	...	...	...
4	—	—	...	...	...	...	...	·2	...	...	·1	...	...	·1	...	...	—	—	0·4	3	...	...	...
5	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...	...	...	...
6	—	—	...	·5	1·0	1·0	1·0	1·0	1·0	·9	1·0	·6	·5	·7	·7	...	—	—	**9·9**	75	...	...	...
7	—	—	...	·4	·3	·1	·2	·2	·8	·6	...	·5	1·0	1·0	·9	...	—	—	6·0	45	...	...	...
8	—	—	...	...	·4	1·0	1·0	1·0	1·0	·9	·6	·8	·8	1·0	...	...	—	—	8·5	65	Haze	53	37
9	—	—	...	·2	1·0	1·0	1·0	·9	1·0	1·0	·6	·4	·8	·4	...	...	—	—	8·3	63	...	...	...
10	—	—	...	...	...	...	...	·2	1·0	·8	·7	·2	·1	·1	...	...	—	—	3·1	24	...	...	...
11	—	—	...	...	·4	...	·2	·5	·7	...	·1	·7	·7	·7	...	...	—	—	4·0	31	...	...	...
12	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...	...	...	...
13	—	—	...	·4	1·0	1·0	1·0	·9	·7	·9	·8	·7	·1	·2	...	...	—	—	7·7	60	...	...	...
14	—	—	...	...	...	·3	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·8	...	...	—	—	8·1	64	...	...	...
15	—	—	...	...	...	·4	1·0	·7	·7	·2	·8	·6	·6	·9	·3	...	—	—	6·2	49	Clear	67	45
16	—	—	...	...	...	...	...	·6	1·0	1·0	1·0	1·0	1·0	·8	...	...	—	—	6·4	51	...	...	...
17	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...	...	...	...
18	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	—	—	...	...	...	...	...
19	—	—	...	...	·3	1·0	·7	·9	·7	·6	1·0	·5	·6	...	...	...	—	—	6·3	51	...	...	...
20	—	—	...	·4	1·0	1·0	·9	·8	·9	·8	1·0	·9	·8	1·0	·3	...	—	—	9·8	**79**	...	...	...
21	—	—	...	·2	·8	·7	·7	·9	·5	·3	·2	·3	·2	...	...	...	—	—	4·8	39	...	...	...
22	—	—	...	·2	·9	·9	1·0	·9	·1	·9	·7	·6	·7	·7	...	...	—	—	7·6	62	...	...	...
23	—	—	...	...	...	...	...	...	...	...	...	...	·1	...	...	...	—	—	0·1	1	...	...	...
24	—	—	—	·4	1·0	·6	...	...	...	...	...	...	...	...	...	—	—	—	2·0	17	...	...	...
25	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...	...	...	...
26	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...	...	...	...
27	—	—	—	...	...	...	·6	1·0	·5	...	...	·2	...	...	...	—	—	—	2·3	19	...	...	...
28	—	—	—	...	...	...	...	...	·3	·3	·5	...	...	...	...	—	—	—	1·1	9	...	...	...
29	—	—	—	...	...	...	...	...	·8	·9	·1	·7	·1	...	...	—	—	—	2·6	22	...	...	...
30	—	—	—	...	·4	·4	·4	·6	·8	·4	·1	...	...	...	...	—	—	—	3·1	26	...	...	...
Sum.	—	—	...	3·2	9·4	9·6	11·4	12·9	**13·5**	12·1	11·1	10·8	9·7	9·2	3·8	0·6	—	—	117·3	—	—	—	—
Mean	—	—	...	·11	·31	·32	·38	·43	**·45**	·40	·37	·36	·32	·31	·13	·02	—	—	3·91	31	—	—	—

508. Richmond (Kew Observatory) : h_s = 13·3 metres. **October, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Radiation at Noon. Ångström Pyrheliometer. Sky.	Total.	Vertical.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%		mw/cm²	mw/cm²
1	—	—	—	...	...	·2	·4	·6	·4	·9	·7	·5	·5	...	...	—	—	—	4·2	36	...	...	...
2	—	—	—	...	...	...	...	...	...	...	...	·7	·1	...	...	—	—	—	0·8	7	...	...	...
3	—	—	—	...	·8	·8	·7	·6	·8	1·0	1·0	1·0	1·0	·7	...	—	—	—	**8·4**	73	...	...	...
4	—	—	—	...	...	·1	...	·1	...	...	...	...	...	...	...	—	—	—	0·2	2	...	...	...
5	—	—	—	...	...	·5	·3	·2	...	...	...	...	...	...	...	—	—	—	1·0	9	...	...	...
6	—	—	—	...	...	·5	1·0	1·0	·2	·1	·3	·3	...	...	...	—	—	—	3·4	30	...	...	...
7	—	—	—	...	·3	·8	1·0	1·0	1·0	·7	·5	·6	·9	·7	...	—	—	—	7·5	67	Clear	84	46
8	—	—	—	...	...	...	...	·2	·3	...	·2	·2	1·0	·5	...	—	—	—	2·4	21	...	...	...
9	—	—	—	...	...	...	·4	·9	·9	·6	...	...	·1	...	...	—	—	—	2·9	26	...	...	...
10	—	—	—	...	...	...	·1	...	...	...	...	...	...	...	...	—	—	—	0·1	1	...	...	...
11	—	—	—	...	...	...	...	...	...	...	...	...	...	·3	...	—	—	—	0·3	3	...	...	...
12	—	—	—	...	...	...	...	...	·4	1·0	1·0	1·0	1·0	·4	...	—	—	—	4·8	44	...	...	...
13	—	—	—	...	...	...	·1	...	...	...	...	...	...	...	...	—	—	—	0·1	1	...	...	...
14	—	—	—	...	·1	·9	1·0	1·0	1·0	1·0	1·0	1·0	·9	·2	...	—	—	—	8·1	75	...	...	...
15	—	—	—	...	...	...	·3	·3	·8	·6	1·0	·5	...	...	...	—	—	—	3·5	33	...	...	...
16	—	—	—	...	...	...	...	...	·1	...	...	...	...	...	...	—	—	—	0·1	1	...	...	...
17	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...	...	...	...
18	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...	...	...	...
19	—	—	—	...	...	...	·6	·3	...	·2	...	...	...	...	...	—	—	—	1·1	10	...	...	...
20	—	—	—	...	...	...	...	·1	·1	...	...	...	·6	·3	...	—	—	—	1·1	11	...	...	...
21	—	—	—	...	...	·4	·3	·9	·8	1·0	1·0	·8	·6	...	...	—	—	—	5·8	56	...	...	...
22	—	—	—	...	...	...	...	...	...	·4	...	·9	...	...	...	—	—	—	1·3	13	...	...	...
23	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	—	—	—	...	...	...	...	...
24	—	—	—	...	...	·1	·9	·9	1·0	1·0	·9	·2	·2	...	...	—	—	—	5·2	51	Clear	62	28
25	—	—	—	—	·3	1·0	1·0	1·0	1·0	1·0	1·0	·5	1·0	·2	—	—	—	—	8·0	**79**	...	...	...
26	—	—	—	—	...	·9	1·0	1·0	1·0	1·0	·8	·8	·2	...	—	—	—	—	6·7	67	Haze	54	24
27	—	—	—	—	...	...	...	...	·1	·9	·1	...	...	...	—	—	—	—	1·1	11	...	...	...
28	—	—	—	—	...	...	...	...	...	...	·1	1·0	1·0	·1	—	—	—	—	2·2	22	...	...	...
29	—	—	—	—	...	·2	·9	·8	...	...	...	...	...	...	—	—	—	—	1·9	19	...	...	...
30	—	—	—	—	·1	·5	1·0	·1	·4	·9	·8	·6	·3	·1	—	—	—	—	4·8	49	...	...	...
31	—	—	—	—	...	...	...	·3	1·0	1·0	·3	...	...	...	—	—	—	—	2·6	27	Haze	42	17
Sum.	—	—	—	...	1·6	6·9	11·0	11·3	11·3	**13·3**	10·7	10·6	9·4	3·5	...	—	—	—	89·6	—	—	—	—
Mean	—	—	—	...	·05	·22	·35	·36	·36	**·43**	·35	·33	·30	·11	...	—	—	—	2·89	27	—	—	—

For periods of sixty minutes, between the exact hours of Local Apparent Time.

509. Richmond (Kew Observatory): h_s (Height of recorder above ground) = **13·3** metres. **November, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Radiation at Noon. Ångström Pyrheliometer. Sky.	Total.	Vertical.
Day.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%		mw/cm²	mw/cm²
1	—	—	—	—	...	·6	1·0	1·0	1·0	1·0	1·0	1·0	1·0	·2	—	—	—	—	7·8	81	...	...	...
2	—	—	—	—	...	·1	1·0	1·0	1·0	1·0	1·0	1·0	1·0	...	—	—	—	—	7·1	74	...	...	...
3	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
4	—	—	—	—	...	...	...	...	...	...	·2	·8	·2	...	—	—	—	—	1·2	13	...	...	...
5	—	—	—	—	...	...	·9	·2	...	·1	·7	·6	·1	...	—	—	—	—	2·6	28	...	...	...
6	—	—	—	—	...	...	...	...	·2	·6	·7	·8	...	...	—	—	—	—	2·3	25	...	...	...
7	—	—	—	—	...	...	...	·9	1·0	1·0	·7	·7	·6	...	—	—	—	—	4·9	53	...	...	...
8	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
9	—	—	—	—	...	...	·1	·4	...	...	...	...	...	...	—	—	—	—	0·5	5	...	...	...
10	—	—	—	—	...	...	...	·1	...	...	...	...	·1	...	—	—	—	—	0·2	2	...	...	...
11	—	—	—	—	...	·3	1·0	·8	·3	·5	·7	·5	...	...	—	—	—	—	4·1	45	...	...	...
12	—	—	—	—	...	·8	1·0	1·0	1·0	1·0	1·0	1·0	·8	...	—	—	—	—	7·6	84	Clear	66	24
13	—	—	—	—	...	·2	1·0	1·0	1·0	1·0	1·0	1·0	·4	...	—	—	—	—	6·6	74	Haze	43	15
14	—	—	—	—	...	...	...	...	...	·1	...	...	...	...	—	—	—	—	0·1	1	...	...	...
15	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
16	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
17	—	—	—	—	...	...	...	...	·1	...	...	...	...	...	—	—	—	—	0·1	1	...	...	...
18	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
19	—	—	—	—	...	...	...	...	...	...	·1	...	·3	...	—	—	—	—	0·4	5	...	...	...
20	—	—	—	—	...	...	·1	...	...	...	...	...	...	...	—	—	—	—	0·1	1	...	...	...
21	—	—	—	—	...	...	·3	·9	1·0	1·0	1·0	1·0	·5	...	—	—	—	—	5·7	67	Haze	59	19
22	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
23	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
24	—	—	—	—	...	·2	·8	1·0	·8	1·0	1·0	1·0	·6	...	—	—	—	—	6·4	76	Clear	56	17
25	—	—	—	—	...	...	...	...	...	·1	...	...	...	...	—	—	—	—	0·1	1	...	...	...
26	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
27	—	—	—	—	...	·6	·2	...	...	...	...	...	·1	...	—	—	—	—	0·9	11	...	...	...
28	—	—	—	—	...	...	...	...	...	·2	...	...	...	...	—	—	—	—	0·2	2	...	...	...
29	—	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	—	—	—	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sum.	—	—	—	—	...	2·8	7·4	8·3	7·4	8·6	9·1	**9·4**	5·7	0·2	—	—	—	—	58·9	—	—	—	—
Mean	—	—	—	—	...	·09	·25	·28	·25	·29	·30	**·31**	·19	·01	—	—	—	—	1·96	22	—	—	—

510. Richmond (Kew Observatory): h_s = **13·3** metres. **December and Year, 1931.**

Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Sky.	Total.	Vertical.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	%		mw/cm²	m w/cm²
1	—	—	—	—	...	...	...	...	...	...	...	...	...	...	—	—	—	—	...	...	...	...	...
2	—	—	—	—	...	...	...	...	...	...	·2	...	...	...	—	—	—	—	0·2	2	...	...	...
3	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
4	—	—	—	—	—	...	·5	1·0	·3	...	...	...	...	—	—	—	—	—	1·8	22	...	...	...
5	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
6	—	—	—	—	—	...	...	...	...	·5	·6	·3	...	—	—	—	—	—	1·4	18	...	...	...
7	—	—	—	—	—	·1	·6	1·0	1·0	1·0	1·0	·7	·1	—	—	—	—	—	5·5	69	...	...	...
8	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
9	—	—	—	—	—	...	...	·7	1·0	·9	·3	...	...	—	—	—	—	—	2·9	37	...	...	...
10	—	—	—	—	—	...	...	...	...	·9	·9	·2	...	—	—	—	—	—	2·0	25	...	...	...
11	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
12	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
13	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
14	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
15	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
16	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
17	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
18	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
19	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
20	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
21	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
22	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
23	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
24	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
25	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
26	—	—	—	—	—	...	...	...	...	·1	·2	...	...	—	—	—	—	—	0·3	4	...	...	...
27	—	—	—	—	—	·3	1·0	·7	...	...	...	...	...	—	—	—	—	—	2·0	26	...	...	...
28	—	—	—	—	—	...	...	...	...	...	...	...	...	—	—	—	—	—	...	...	...	...	...
29	—	—	—	—	—	...	·2	·5	·6	1·0	·6	·4	...	—	—	—	—	—	3·3	42	Haze	42	11
30	—	—	—	—	—	...	·2	1·0	1·0	1·0	1·0	·4	...	—	—	—	—	—	4·6	59	Haze	43	11
31	—	—	—	—	—	...	·5	·4	1·0	1·0	1·0	1·0	...	—	—	—	—	—	4·9	63	Haze	29	8
Sum.	—	—	—	—	...	0·4	3·0	5·3	4·9	**6·4**	5·8	3·0	0·1	...	—	—	—	—	28·9	—	—	—	—
Mean	—	—	—	—	...	·01	·10	·17	·16	**·21**	·19	·10	·00	...	—	—	—	—	0·93	12	—	—	—
Annual Total	...	1·4	19·7	40·3	68·5	95·7	122·7	131·5	**135·8**	135·4	134·7	125·4	96·6	70·0	50·4	28·7	8·3	...	1265·1	—	—	—	—
Annual Mean	...	·00	·05	·11	·19	·26	·34	·36	**·37**	·37	·37	·34	·26	·19	·14	·08	·02	...	3·47	28	—	—	—
Hour. L.A.T.	3 to 4.	4 to 5.	5 to 6.	6 to 7.	7 to 8.	8 to 9.	9 to 10.	10 to 11.	11 to Noon	Noon to 13	13 to 14.	14 to 15.	15 to 16.	16 to 17.	17 to 18.	18 to 19.	19 to 20.	20 to 21.	Total for Day.	Per cent. of Possible.	Sky. Radiation at Noon. Ångström Pyrheliometer.	Total.	Vertical.

Direction expressed in degrees from North ($E = 90°$, $S = 180°$, $W = 270°$, $N = 360°$). Speed in metres per second.

511. Richmond (Kew Observatory): H_a (height of vane of anemograph above M.S.L.) = Height of ground above

Dines Anemograph from Jan., 1926.

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	240	2·0	215	1·4	205	1·4	210	0·8	130	0·5	70	0·4	65	0·1	10	1·4	10	1·5	360	1·8	10	1·0	20	1·1
2	230	2·4	235	2·5	190	1·4	220	2·1	220	2·6	230	3·0	245	3·7	235	4·0	235	3·9	250	3·0	240	3·1	245	3·5
3	125	4·4	65	4·4	55	4·4	55	4·7	55	4·4	45	4·2	45	4·2	50	4·4	45	4·6	45	3·9	45	4·6	35	4·7
4	300	3·1	295	3·8	275	2·5	260	2·5	245	2·3	230	2·0	250	1·1	235	1·0	260	1·1	285	1·8	300	2·0	310	2·8
5	280	1·2	245	1·7	240	1·5	250	2·1	250	1·9	230	1·5	265	1·7	290	1·2	265	1·4	215	1·2	225	1·8	230	1·6
6	280	1·0	285	0·5	270	0·9	240	1·0	235	1·0	215	0·5	220	0·8	235	1·1	240	0·5	230	0·5	230	0·9	235	0·9
7	290	0·4	245	0·8	245	1·1	260	0·8	260	0·6	250	1·0	240	0·3	270	0·5	270	0·5	270	(0·5)	340	(1·5)	350	(2·4)
8	360	1·2	330	0·9	320	0·5	310	0·5	310	0·1	325	0·2	265	0·4	215	0·8	230	1·5	230	1·0	240	1·2	240	1·0
9	190	1·1	210	0·4	240	1·1	215	1·9	215	1·5	220	1·5	230	1·5	225	2·5	240	2·1	260	1·5	300	2·0	340	3·2
10	245	1·5	250	1·4	250	1·0	295	1·9	285	1·3	295	1·5	290	2·0	295	1·7	280	1·5	265	2·0	280	3·0	255	1·4
11	225	2·4	230	2·5	230	2·5	230	2·5	235	2·2	225	2·0	225	2·2	225	3·0	235	3·0	235	2·9	240	3·5	240	3·5
12	230	5·4	235	5·2	240	4·5	240	4·3	240	4·0	235	3·0	240	2·9	260	2·5	290	1·9	310	0·6	340	1·6	330	2·1
13	20	1·7	20	2·6	20	2·2	20	3·4	20	4·0	15	3·9	20	4·5	20	5·2	20	6·1	20	7·0	20	7·5	20	8·1
14	360	7·0	360	8·1	360	7·0	360	7·0	360	6·1	360	6·0	350	6·0	350	5·5	340	5·2	345	5·9	350	5·8	350	6·0
15	215	4·1	225	4·2	230	4·5	230	4·7	230	3·7	250	3·8	235	3·7	235	3·6	235	4·0	230	4·1	240	4·1	240	4·2
16	265	4·4	250	3·6	250	3·9	250	4·6	250	4·7	250	4·1	245	4·2	250	5·0	250	5·4	240	5·0	240	5·9	240	6·5
17	300	9·4	295	7·9	290	7·0	275	7·6	285	7·9	285	8·7	280	8·0	280	8·8	285	8·1	290	7·8	280	8·0	280	7·3
18	290	5·3	280	5·4	280	4·9	280	4·7	280	4·5	280	4·4	280	4·4	275	4·0	280	4·4	280	4·2	280	5·6	285	5·5
19	220	1·8	230	1·8	230	3·9	245	3·9	245	5·0	240	5·0	255	4·7	265	6·2	260	6·0	260	6·7	270	5·0	280	4·8
20	230	3·0	235	3·4	225	3·4	230	3·0	230	3·3	230	2·3	230	2·1	235	1·8	265	1·0	250	1·5	260	2·0	285	2·6
21	240	0·6	290	0·1	350	0·2	20	0·5	350	0·3	40	0·7	85	2·0	90	1·5	95	1·0	170	1·1	170	1·9	170	2·5
22	200	3·9	205	4·5	200	4·5	195	3·5	205	4·4	205	3·2	190	2·4	190	3·0	190	3·5	200	3·7	200	4·6	210	4·9
23	210	7·7	210	9·9	205	8·9	210	8·8	210	9·0	205	8·9	205	9·5	210	9·9	205	10·0	210	10·5	210	10·2	210	9·6
24	240	8·0	240	8·8	235	7·9	240	9·3	240	8·3	235	7·4	240	6·4	240	7·2	260	7·9	270	8·4	270	9·4	270	10·1
25	255	5·9	245	5·5	235	4·2	235	4·0	250	4·3	260	4·5	270	4·6	270	4·0	265	4·5	280	7·5	280	7·9	280	7·9
26	280	5·1	285	5·8	285	6·0	285	5·8	280	4·5	285	4·9	290	4·9	300	5·0	290	5·0	265	4·0	315	5·7	315	6·3
27	280	3·7	260	2·3	295	3·0	295	2·5	235	1·3	250	2·1	240	1·5	240	1·6	230	1·3	260	0·3	270	1·5	255	1·6
28	220	4·9	255	3·6	260	3·6	270	5·0	270	5·8	270	5·5	260	5·5	250	5·3	255	5·0	260	7·0	270	8·6	275	8·5
29	230	3·0	230	3·0	245	2·0	270	3·4	260	3·6	265	4·0	250	3·5	250	2·8	255	4·0	270	5·1	270	5·1	270	5·6
30	270	3·6	280	4·3	295	5·5	305	4·8	310	5·6	310	6·6	310	7·0	315	7·6	310	8·0	335	9·9	340	9·1	345	10·0
31	340	1·0	320	0·3	10	0·9	210	1·0	210	0·8	230	0·5	200	0·8	180	0·2	130	0·3	190	0·1	150	3·3	160	4·9
Mean ...		3·6	—	3·6	—	3·4	—	3·6	—	3·5	—	3·5	—	3·4	—	3·6	—	3·7	—	3·9	—	4·4	—	4·7

512. Richmond (Kew Observatory): H_a = 5 metres + 23 metres.

Day	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	160	6·8	160	5·0	170	4·0	135	3·0	160	2·9	160	1·8	125	1·1	105	1·5	80	1·0	60	1·2	50	1·2	20	2·0
2	320	3·0	320	2·0	280	1·0	230	1·3	230	1·5	235	1·3	250	1·5	245	1·0	240	1·0	220	0·5	240	1·1	250	1·2
3	245	1·6	260	1·0	330	0·9	10	3·4	15	5·8	10	5·5	15	5·9	15	5·8	15	5·5	20	6·1	15	6·6	20	7·6
4	20	4·9	25	4·0	15	4·1	10	4·6	15	4·5	25	4·7	10	3·5	5	3·5	15	3·2	15	4·7	35	5·1	50	4·5
5	310	0·4	290	0·2	310	0·8	330	0·6	320	0·6	340	0·5	15	0·2	310	0·5	360	0·5	255	0·8	245	0·6	195	0·3
6	135	4·1	125	3·9	125	3·8	135	4·3	135	4·8	130	4·4	130	5·0	125	4·7	125	5·1	110	4·6	105	5·0	110	4·2
7	105	1·9	105	1·6	105	1·4	95	0·2	115	0·2	145	0·5	180	0·4	245	0·7	230	0·9	215	1·6	250	1·4	275	1·0
8	335	0·1	130	0·1	360	0·1	60	0·2	45	0·1	90	0·2	125	0·2	170	2·0	165	3·0	175	4·3	175	4·3	185	4·9
9	195	6·5	195	5·8	200	6·7	205	6·6	205	6·0	195	4·9	195	5·3	205	5·0	200	5·6	215	5·3	215	5·9	215	4·9
10	205	8·5	205	8·4	210	9·4	210	10·5	210	10·7	200	10·0	205	9·7	215	10·3	230	9·8	265	5·0	260	6·5	290	9·8
11	250	3·3	255	3·4	245	4·0	240	3·8	225	3·5	230	4·0	200	2·8	225	5·1	225	5·2	230	6·4	230	8·1	230	8·5
12	270	10·0	265	8·2	270	9·0	265	7·5	270	8·6	265	8·1	270	6·6	270	8·0	270	8·0	275	9·1	280	9·9	295	10·7
13	255	4·0	260	5·0	260	5·0	260	5·0	255	5·1	265	5·1	270	5·5	295	6·4	300	8·6	310	8·3	310	8·0	320	8·0
14	330	7·0	335	6·5	330	6·0	330	6·0	330	6·0	340	5·8	340	6·0	335	6·5	340	7·0	340	7·0	340	6·8	340	6·5
15	210	1·9	210	2·3	230	3·2	220	4·0	210	3·8	210	2·3	230	2·0	235	2·1	235	1·1	270	1·3	275	2·5	270	2·9
16	230	5·0	230	5·6	225	6·0	220	5·6	225	5·7	225	6·0	230	6·0	240	5·5	275	6·1	315	6·6	310	7·1	315	7·0
17	315	1·5	330	2·8	340	2·1	330	2·5	320	2·3	295	2·5	270	2·3	245	2·5	220	3·1	210	3·5	190	1·9	110	0·6
18	10	4·9	10	5·7	15	5·7	10	5·6	10	6·1	15	6·9	15	6·7	10	6·8	10	6·3	10	5·6	15	6·2	15	5·6
19	10	6·2	20	5·5	15	5·3	15	4·6	15	4·5	10	4·6	25	4·0	15	4·5	10	3·6	10	3·0	60	4·0	55	3·0
20	220	1·2	195	1·5	200	1·1	200	1·5	190	1·5	190	2·1	185	3·4	190	4·5	195	5·2	200	5·0	210	7·4	205	7·5
21	225	3·3	245	3·2	250	4·0	245	2·7	220	3·0	230	2·4	225	3·0	215	3·5	240	3·9	260	5·2	280	6·0	285	6·5
22	220	1·5	215	1·0	215	1·9	210	1·3	210	1·1	200	1·4	195	1·6	200	1·6	220	2·6	230	2·3	235	3·9	225	4·8
23	220	2·8	235	2·6	250	3·4	235	3·2	225	2·8	220	2·5	220	1·6	225	2·4	235	1·6	260	2·8	280	3·6	280	4·7
24	260	1·1	275	0·5	260	0·9	240	0·6	230	1·0	260	0·5	210	0·6	240	0·4	225	0·2	230	0·2	245	1·5	270	2·2
25	240	5·4	245	5·1	250	4·7	250	4·6	240	4·1	240	4·0	240	4·3	240	4·5	240	4·5	235	4·8	235	5·0	250	5·5
26	255	5·8	255	4·8	245	5·7	255	5·5	260	5·9	260	5·7	250	5·7	255	7·1	250	8·2	250	7·5	255	7·3	240	7·3
27	275	2·8	260	1·6	255	2·0	255	1·3	245	0·9	230	1·6	245	2·0	220	1·1	230	2·0	235	2·0	235	3·0	230	3·4
28	235	5·8	285	7·1	310	5·1	315	5·6	330	6·0	330	4·9	330	4·2	320	3·1	305	3·4	280	4·2	280	4·0	280	4·0
Mean ...	—	4·0	—	3·7	—	3·8	—	3·8	—	3·9	—	3·7	—	3·6	—	3·9	—	4·1	—	4·2	—	4·8	—	5·0
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 5 metres + 23 metres.

January, 1931.

13. °	13. m/s.	14. °	14. m/s.	15. °	15. m/s.	16. °	16. m/s.	17. °	17. m/s.	18. °	18. m/s.	19. °	19. m/s.	20. °	20. m/s.	21. °	21. m/s.	22. °	22. m/s.	23. °	23. m/s.	24. °	24. m/s.	Mean m/s.	Day
320	1·0	360	1·4	350	2·0	330	2·2	335	1·4	310	1·0	275	1·0	255	1·5	240	1·0	240	1·1	240	1·5	225	2·0	1·3	1
245	3·5	240	3·5	235	2·4	210	1·3	175	0·3	125	0·5	115	0·7	80	1·1	90	2·2	105	1·5	95	3·5	130	4·6	2·5	2
35	5·0	20	4·5	15	4·5	15	4·4	15	4·5	10	4·0	360	4·5	350	3·2	330	3·0	315	3·0	315	3·0	290	2·2	4·2	3
320	4·5	295	3·4	295	4·3	320	3·6	310	3·0	295	3·0	280	3·0	265	1·2	260	1·2	255	1·7	295	1·4	290	1·4	2·4	4
255	1·8	260	1·7	270	1·8	275	1·1	275	1·5	285	2·4	250	0·8	260	1·0	360	0·4	250	0·2	240	1·0	265	1·1	1·4	5
315	1·1	5	3·0	5	2·6	360	2·0	250	2·2	340	1·1	320	0·6	325	1·3	325	1·0	315	0·5	315	0·3	310	0·6	1·1	6
350	0·4	10	3·3	10	2·9	5	3·0	20	3·0	20	2·8	10	2·0	30	2·0	10	2·2	355	1·9	5	1·6	350	1·2	1·5	7
225	1·3	195	1·6	205	1·3	230	0·7	200	1·3	195	0·1	195	0·3	195	1·0	225	1·0	225	1·2	185	0·4	230	0·4	0·8	8
345	3·8	350	4·0	340	3·6	340	3·0	335	2·0	320	1·1	295	0·7	235	0·9	275	0·5	260	1·1	225	2·2	255	1·7	1·8	9
200	1·5	200	1·1	220	1·4	215	1·6	225	2·6	235	2·5	240	1·5	235	1·7	230	2·4	260	1·8	250	2·0	225	1·5	1·7	10
255	4·2	245	4·9	245	4·8	240	4·8	235	4·9	240	5·4	225	6·0	235	4·5	235	4·1	235	4·4	230	5·3	230	5·5	3·7	11
330	1·3	300	1·1	305	0·2	315	0·7	—	0·0	355	1·5	345	1·6	350	1·7	360	1·6	15	1·1	25	0·5	15	1·8	2·2	12
20	8·6	30	9·4	30	9·5	25	9·4	25	8·9	20	7·1	10	6·8	10	6·5	5	6·5	360	6·7	360	7·0	5	6·2	6·1	13
350	6·2	350	6·0	345	4·3	325	3·5	330	3·2	320	2·5	310	2·6	270	2·0	255	2·1	245	2·8	240	2·6	245	2·9	4·9	14
240	4·2	240	3·5	255	3·4	250	3·3	250	2·9	245	3·3	240	3·5	235	3·2	250	3·7	265	4·0	275	4·5	275	4·0	3·8	15
235	6·5	245	6·1	260	7·9	265	9·0	255	9·8	245	8·5	250	8·1	250	9·7	260	10·8	270	11·5	280	11·3	295	11·1	6·8	16
300	9·0	300	9·0	310	9·3	310	8·4	300	6·9	300	6·0	295	6·0	300	7·1	300	6·4	290	5·1	280	4·5	290	4·6	7·6	17
310	4·8	320	5·0	310	4·7	310	3·5	270	2·1	280	1·9	250	1·7	240	2·8	215	2·3	195	2·0	190	1·1	190	1·4	3·8	18
275	4·0	255	3·3	255	3·7	260	3·7	255	3·6	245	2·5	240	2·5	250	3·0	230	2·4	230	2·5	235	2·5	240	2·5	3·8	19
275	1·9	275	2·0	290	1·5	310	2·3	350	2·7	310	0·5	260	0·4	260	0·4	230	0·5	140	0·4	70	0·5	340	0·4	1·8	20
185	4·6	180	4·1	180	4·5	170	5·0	175	4·5	185	4·5	180	3·3	185	4·1	185	4·2	190	3·8	190	3·2	190	3·0	2·5	21
205	4·4	205	4·6	195	4·1	200	3·6	200	3·5	230	4·0	250	4·4	230	3·6	210	4·0	210	5·5	200	4·9	190	5·0	4·0	22
210	9·9	210	9·3	215	9·1	210	7·5	210	6·5	215	7·7	225	7·5	235	7·8	260	8·5	255	8·1	245	7·9	245	8·0	8·7	23
275	9·4	275	9·4	275	8·9	270	9·1	270	8·0	265	6·5	260	6·6	260	7·5	260	7·5	260	6·1	250	5·3	240	5·5	7·9	24
280	7·8	280	8·0	290	7·5	280	7·0	270	6·8	265	6·4	255	4·6	255	5·8	250	6·5	245	6·0	245	2·9	260	5·5	5·8	25
300	6·5	295	6·7	290	6·2	290	5·1	285	5·0	285	3·8	275	3·5	275	3·9	275	5·0	285	4·5	285	4·3	285	4·4	5·1	26
250	2·0	240	2·0	210	3·3	210	2·3	190	2·4	185	2·5	175	2·6	170	3·4	170	4·1	180	4·9	180	5·2	205	5·3	2·6	27
285	9·6	290	10·5	290	10·0	290	9·4	290	8·4	290	7·7	285	5·5	275	4·5	270	3·1	250	2·2	215	1·2	240	1·2	6·0	28
270	4·6	270	4·1	270	4·0	260	4·4	250	3·9	250	3·6	245	3·0	235	3·5	240	3·5	240	3·5	245	3·5	260	3·6	3·7	29
350	9·6	355	7·5	355	7·2	360	7·4	10	8·1	360	7·4	360	6·9	10	6·4	5	4·6	355	4·0	340	3·4	345	2·4	6·6	30
160	6·1	160	6·1	155	6·2	155	6·2	160	5·7	165	6·3	160	7·3	160	7·8	155	8·2	150	7·3	160	8·0	160	7·8	3·9	31
—	4·8	—	4·8	—	4·7	—	4·5	—	4·2	—	3·8	—	3·5	—	3·7	—	3·7	—	3·6	—	3·4	—	3·5	3·9	—

February, 1931.

13. °	13. m/s.	14. °	14. m/s.	15. °	15. m/s.	16. °	16. m/s.	17. °	17. m/s.	18. °	18. m/s.	19. °	19. m/s.	20. °	20. m/s.	21. °	21. m/s.	22. °	22. m/s.	23. °	23. m/s.	24. °	24. m/s.	Mean m/s.	Day
350	2·7	330	2·5	330	5·9	335	6·1	335	6·4	335	5·5	330	4·5	330	4·5	330	4·2	320	3·5	320	3·4	320	4·1	3·6	1
270	1·5	290	3·1	295	2·8	280	2·5	280	1·6	270	1·5	250	2·0	240	2·0	250	1·8	250	1·2	235	2·0	225	1·6	1·7	2
20	6·6	15	7·0	20	8·4	10	6·0	25	6·1	20	5·4	15	5·3	25	5·5	30	6·0	30	5·6	20	5·2	15	5·0	5·3	3
25	4·4	10	2·5	15	3·5	360	3·3	350	2·1	350	2·2	360	4·0	350	3·3	355	2·2	340	1·8	340	1·2	320	0·9	3·5	2
170	0·1	140	1·2	135	2·4	140	2·4	160	2·4	130	2·7	140	2·2	130	2·1	125	2·5	135	3·2	140	3·5	130	3·6	1·4	5
115	4·9	115	5·4	110	4·5	110	3·8	105	3·9	105	3·8	105	3·9	100	3·6	100	4·0	100	3·8	115	2·5	110	2·4	4·2	6
325	1·6	335	2·2	330	1·2	340	0·2	—	0·0	190	0·4	185	1·0	195	1·0	195	0·4	—	0·0	—	0·0	—	0·0	0·9	7
190	7·3	195	6·9	195	6·5	190	7·1	185	6·8	190	7·0	185	7·5	185	7·2	190	7·0	195	7·9	195	8·0	195	7·1	4·3	8
230	4·3	230	4·7	220	4·6	200	5·1	210	5·0	205	4·8	210	5·7	210	5·7	210	5·6	210	6·9	210	8·2	205	7·9	5·7	9
280	9·5	285	10·0	285	10·3	275	9·2	270	7·4	270	6·1	270	6·5	255	5·2	250	5·5	245	6·1	260	5·0	255	4·0	8·1	10
225	10·5	215	11·0	210	10·1	215	13·0	210	12·6	220	9·6	230	8·5	265	10·1	270	8·5	280	8·9	275	7·0	260	7·4	7·2	11
290	10·1	290	9·1	290	10·0	290	8·5	285	6·1	275	5·5	280	5·4	280	5·0	280	5·4	280	5·0	275	4·7	270	4·6	7·7	12
320	6·5	310	5·5	320	6·7	330	7·0	320	5·5	325	5·5	330	4·7	340	5·9	330	4·0	340	4·4	320	3·6	325	4·5	5·7	13
345	7·1	345	6·7	345	7·0	330	4·8	325	4·0	320	2·1	270	1·4	235	1·6	270	1·6	270	1·7	270	1·7	260	0·8	5·0	14
290	3·5	300	4·0	290	3·2	285	3·6	270	2·5	275	4·0	270	3·4	230	3·2	245	3·3	235	3·6	240	3·6	240	4·3	2·9	15
300	7·4	295	6·0	280	4·5	265	4·6	260	3·5	305	4·4	300	2·3	280	3·0	290	2·6	295	3·6	310	2·4	310	2·0	5·0	16
100	1·7	90	3·9	70	3·6	20	4·0	20	5·1	15	5·0	15	3·6	15	3·8	30	4·0	30	4·6	30	5·0	10	4·5	3·1	17
20	8·1	15	9·0	10	8·6	360	9·6	360	9·5	360	8·5	360	8·5	360	8·1	360	8·8	360	8·5	360	8·0	360	7·2	7·2	18
90	2·1	65	1·5	155	1·3	175	0·4	—	0·0	250	0·1	250	0·3	175	1·0	180	1·0	215	1·1	200	1·3	190	1·4	2·8	19
210	7·5	205	7·2	215	7·1	210	7·0	210	6·1	210	7·4	205	7·0	210	7·2	210	7·6	205	5·6	220	4·2	230	3·5	4·9	20
300	6·7	310	7·0	310	6·5	300	5·7	300	5·3	285	3·3	280	2·6	280	3·0	265	2·3	250	2·0	250	2·5	220	2·0	4·0	21
240	4·6	250	3·8	245	3·2	240	2·8	210	2·1	200	1·8	210	1·7	220	2·5	205	2·4	200	2·1	225	2·4	225	2·4	2·4	22
295	4·0	290	4·5	290	4·1	285	3·5	280	3·5	285	3·0	270	2·6	305	3·8	290	2·8	290	2·8	240	1·6	265	1·5	3·0	23
280	3·5	265	3·9	255	4·3	245	4·4	240	4·5	245	3·3	245	3·5	225	4·0	230	4·9	235	5·3	230	5·8	235	4·5	2·5	24
260	6·3	250	5·4	250	5·9	250	5·5	250	5·2	260	4·8	260	4·0	245	4·1	255	5·7	260	6·2	250	5·1	255	5·5	5·0	25
250	6·4	270	7·2	270	6·4	270	5·8	330	6·0	330	5·7	330	5·6	335	5·5	320	3·3	315	3·9	295	2·4	290	2·5	5·8	26
240	4·3	235	4·3	210	4·5	210	5·7	200	6·0	180	4·5	160	3·8	165	4·7	175	5·0	180	4·5	205	4·3	220	6·5	3·3	27
260	3·3	290	7·5	265	4·8	285	5·1	310	6·0	280	3·5	295	5·1	310	8·4	310	5·6	290	5·5	280	4·0	245	2·9	5·0	28
—	5·2	—	5·5	—	5·4	—	5·2	—	4·8	—	4·3	—	4·2	—	4·5	—	4·2	—	4·3	—	3·9	—	3·7	4·3	—

Direction expressed in degrees from North (E=90°, S=180°, W=270°, N=360°): Speed in metres per second.

513. Richmond (Kew Observatory): H_a (height of vane of anemograph above M.S.L.) = Height of ground above

Dines Anemograph from Jan., 1926.

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	235	3·5	210	2·8	170	1·4	90	0·2	15	0·4	330	2·5	350	4·9	330	2·2	315	3·9	315	5·0	315	7·1	315	6·0
2	305	3·5	295	2·3	275	2·4	265	1·8	250	1·6	255	1·9	245	2·0	240	2·0	265	2·5	275	2·9	250	2·5	290	3·2
3	—	0·0	185	0·1	—	0·0	—	0·0	—	0·0	65	0·3	95	0·4	85	0·9	90	2·6	105	3·0	120	3·9	135	5·8
4	85	5·0	80	5·9	80	6·0	80	5·4	80	5·6	85	6·0	85	6·5	80	7·6	85	8·8	90	9·8	90	10·5	85	9·8
5	90	4·9	90	5·1	85	5·5	85	5·6	90	5·5	85	5·1	85	6·1	85	5·6	90	5·8	95	6·0	100	6·0	85	7·0
6	75	8·4	85	8·3	85	8·1	80	8·5	75	10·4	75	11·3	75	11·4	80	11·5	80	12·7	80	14·0	80	12·2	75	12·2
7	60	10·7	60	11·1	60	11·0	55	10·8	55	9·5	50	9·0	50	8·1	50	9·1	50	9·1	60	11·3	60	10·0	65	11·5
8	70	9·2	60	8·7	65	8·9	60	8·0	55	8·8	60	8·4	60	9·5	60	9·3	60	9·6	70	10·2	75	10·5	70	10·1
9	355	2·0	345	3·0	340	1·4	330	2·0	10	1·8	315	1·1	15	3·5	15	5·9	20	7·1	30	7·4	25	6·5	30	7·5
10	255	1·0	270	1·0	315	0·5	330	1·1	300	1·6	270	1·0	245	2·0	265	1·5	315	3·6	305	3·6	305	3·5	320	2·6
11	275	3·7	270	3·5	280	3·6	280	3·9	275	3·0	270	2·3	300	4·0	305	5·5	320	6·4	330	5·7	330	6·0	330	5·5
12	265	3·5	255	3·0	265	3·3	270	3·8	280	3·5	280	2·4	275	3·0	280	1·5	300	2·7	330	4·4	335	3·9	325	3·9
13	215	1·1	260	0·2	330	0·1	190	0·5	220	0·3	—	0·0	—	0·0	205	0·3	235	1·1	230	2·0	235	3·7	255	4·6
14	210	4·3	220	3·1	220	3·0	225	4·4	225	3·0	230	3·4	230	2·0	230	3·3	245	3·6	255	4·0	270	4·0	260	3·8
15	295	0·4	210	1·0	210	0·9	250	0·1	270	0·4	310	0·3	320	0·3	300	0·2	310	0·4	260	0·1	240	1·0	215	2·4
16	80	5·6	75	5·6	80	5·0	70	5·2	75	5·5	80	6·0	65	5·7	80	6·5	80	7·2	85	8·9	80	9·4	80	9·0
17	90	9·0	90	8·8	90	8·3	90	8·9	85	7·4	85	5·5	85	5·8	85	5·6	90	6·8	95	5·1	90	5·5	85	6·6
18	90	3·0	80	3·5	80	3·3	70	2·5	75	3·6	70	3·1	80	3·4	85	3·9	90	5·1	85	5·1	90	5·0	90	4·5
19	130	0·3	130	0·1	75	0·5	80	1·7	95	2·4	90	3·0	80	2·7	80	2·8	100	2·5	110	4·2	155	7·4	145	6·9
20	85	3·0	85	1·5	80	1·4	75	1·5	90	1·4	75	2·0	85	2·8	90	1·5	150	3·6	180	2·9	185	3·6	175	5·1
21	125	2·3	145	4·5	165	4·6	160	4·5	150	4·9	165	4·7	215	4·9	225	6·0	230	6·8	230	7·0	220	6·9	225	5·5
22	245	2·2	260	1·4	240	1·6	250	1·0	195	1·2	200	1·5	180	2·0	180	2·0	180	1·5	190	2·0	180	5·7	195	4·7
23	180	0·1	355	0·2	5	1·4	360	0·3	10	0·2	350	0·4	325	0·8	350	0·5	350	1·7	130	0·2	185	1·1	190	1·1
24	25	5·1	20	5·5	30	7·3	30	6·4	30	5·9	25	5·0	25	5·4	20	5·0	20	6·1	30	7·0	35	7·6	30	7·7
25	55	6·5	55	6·0	60	6·1	60	6·0	60	6·6	60	6·6	60	6·9	60	6·4	60	6·9	80	5·7	80	4·8	90	5·9
26	65	5·5	65	5·2	80	5·5	55	4·7	55	4·0	55	3·5	65	4·4	75	4·0	65	3·5	70	4·4	85	4·3	80	4·1
27	10	0·5	15	0·4	205	0·3	120	0·2	350	0·2	20	0·1	180	0·1	70	0·1	180	0·4	275	1·1	280	1·1	250	0·7
28	235	0·5	235	1·5	240	0·8	245	1·2	250	0·9	245	0·8	240	1·0	245	0·3	245	0·5	305	0·5	320	1·5	345	3·0
29	80	9·0	85	7·0	95	7·2	100	6·6	105	5·9	105	5·6	110	5·7	115	6·0	120	7·1	130	7·4	130	7·9	125	8·0
30	115	4·0	115	4·0	110	5·1	105	5·2	110	4·5	105	4·0	115	3·5	100	3·5	110	3·6	120	5·7	125	7·6	135	6·9
31	100	5·5	100	5·2	95	6·0	100	6·4	95	7·1	95	7·5	95	7·5	100	6·5	115	8·0	125	9·4	120	8·5	130	8·5
Mean ...	—	4·0	—	3·9	—	3·9	—	3·8	—	3·8	—	3·7	—	4·1	—	4·1	—	4·9	—	5·4	—	5·8	—	5·9

514. Richmond (Kew Observatory): H_a = 5 metres + 23 metres.

Day	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	95	5·6	95	5·0	100	5·0	100	4·0	95	3·2	95	4·2	95	3·3	110	6·2	120	9·1	125	10·4	120	9·9	120	9·6
2	105	4·0	100	4·4	100	3·5	95	3·6	90	4·9	90	5·1	95	5·3	100	3·6	100	3·5	110	3·0	110	2·7	120	3·2
3	40	1·6	45	2·0	35	2·3	15	2·4	15	2·4	5	2·8	350	4·0	350	4·5	355	4·0	355	4·5	355	4·9	340	3·6
4	335	4·6	335	5·5	335	5·1	335	4·0	330	2·5	320	2·6	310	2·5	325	4·1	335	5·7	335	5·5	330	5·2	330	4·6
5	230	3·4	230	3·8	240	4·5	240	4·6	235	4·1	240	4·1	240	4·5	235	5·6	255	6·7	260	5·9	325	3·6	320	1·5
6	240	2·1	220	2·1	215	2·0	210	1·9	230	1·8	275	0·5	20	1·5	30	3·5	45	3·2	40	3·1	45	3·0	55	2·8
7	100	2·5	90	3·6	85	2·9	85	3·0	90	3·1	85	2·6	85	2·9	90	3·1	85	3·2	95	3·0	95	2·8	100	3·0
8	195	2·7	205	2·5	190	1·5	185	0·6	130	1·0	110	1·2	100	2·5	110	2·4	120	2·1	170	6·0	185	5·1	170	4·5
9	200	0·1	240	0·2	260	0·1	—	0·0	—	0·0	—	0·0	—	0·0	240	0·8	240	1·9	230	3·0	220	4·0	220	4·1
10	305	0·9	335	1·2	355	2·0	5	3·5	25	4·7	25	4·7	25	4·6	25	4·7	25	4·1	20	4·8	20	3·7	50	3·6
11	95	0·2	145	0·2	215	0·1	210	0·1	230	0·3	195	0·8	220	0·4	235	0·2	240	0·9	235	2·0	220	3·0	220	2·2
12	250	1·5	225	1·5	225	1·5	210	1·7	230	1·4	230	1·2	230	1·8	245	3·4	235	4·0	245	4·6	250	4·9	250	5·6
13	295	2·5	315	4·5	315	4·7	335	4·5	330	5·9	330	6·9	335	6·4	350	7·0	350	7·1	355	6·8	335	6·1	330	6·0
14	235	2·5	215	2·3	255	2·8	280	4·4	275	3·4	270	3·0	270	3·0	280	4·9	285	5·1	300	5·5	305	4·8	310	4·7
15	260	1·6	280	2·6	280	2·5	290	2·6	285	1·8	270	1·6	250	1·8	255	2·0	245	2·1	245	2·1	250	3·0	245	3·6
16	325	5·2	335	5·4	335	5·4	335	6·3	340	6·4	345	6·5	350	6·3	345	6·0	335	6·0	340	5·5	360	6·2	360	5·7
17	255	4·5	255	5·8	255	7·3	260	6·1	255	6·2	255	5·9	275	6·0	335	6·1	330	7·0	330	7·9	335	7·8	310	7·0
18	330	4·0	335	3·5	325	4·0	300	4·0	270	3·2	285	4·1	320	6·5	330	7·4	10	7·5	55	8·5	30	7·9	25	7·6
19	360	8·0	350	7·4	345	6·1	355	5·8	65	7·5	50	6·7	35	8·1	30	9·3	30	7·4	25	9·0	15	7·5	20	7·6
20	15	8·3	15	8·1	20	9·0	15	8·0	15	8·5	15	9·0	20	8·9	20	9·9	20	9·7	20	9·8	20	9·8	25	8·0
21	15	4·5	20	4·1	25	4·5	30	5·1	30	5·8	35	5·5	45	5·5	40	5·3	20	4·2	10	4·8	15	5·1	20	4·5
22	285	1·0	260	1·3	250	0·9	230	0·6	230	0·3	225	1·4	250	1·6	275	2·1	285	2·6	275	3·1	275	3·1	285	3·9
23	225	3·0	215	2·4	220	2·8	220	2·5	215	3·5	210	4·1	210	4·0	210	5·7	215	6·0	215	5·0	230	7·3	220	7·5
24	170	5·0	165	5·0	160	4·8	170	4·4	190	6·6	190	5·1	185	5·5	185	7·0	180	7·4	185	8·2	190	9·4	190	9·5
25	160	5·3	175	5·3	180	5·0	175	5·8	170	6·1	170	6·4	155	7·5	150	7·8	135	7·6	170	5·0	200	8·0	200	10·7
26	230	5·9	230	5·7	225	5·6	230	5·7	220	6·0	225	6·1	225	6·4	225	7·1	230	7·9	230	6·3	225	8·5	230	7·1
27	275	5·3	295	5·0	310	6·0	315	5·7	315	5·2	315	6·5	315	6·0	310	6·0	315	7·5	305	6·5	305	7·5	305	7·9
28	305	7·7	310	6·9	305	6·0	295	3·5	300	5·5	280	4·0	270	3·8	280	3·9	300	5·7	290	5·5	295	6·8	280	5·7
29	270	2·0	275	2·1	295	2·9	310	2·9	310	3·0	285	2·5	285	3·5	300	3·2	330	4·4	340	3·4	355	3·9	350	3·2
30	270	0·1	220	0·9	225	0·6	240	0·3	240	1·0	235	0·5	240	0·2	230	0·8	260	2·2	250	3·0	240	4·1	230	4·3
Mean ...	—	3·5	—	3·7	—	3·7	—	3·6	—	3·8	—	3·9	—	4·1	—	4·8	—	5·2	—	5·4	—	5·7	—	5·4
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 5 metres + 23 metres.

March, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
310	7·6	305	10·6	315	9·9	315	9·8	310	9·0	325	8·0	320	5·2	310	4·2	310	3·5	305	3·6	320	3·8	310	5·1	5·0	1
300	2·5	290	2·6	340	2·7	355	2·5	360	1·6	25	0·1	40	0·3	140	0·5	165	0·3	40	0·1	135	0·5	210	0·3	1·9	2
135	5·3	135	4·9	120	4·5	120	4·0	115	4·1	115	4·6	120	4·9	95	5·0	90	4·4	80	5·1	80	5·6	85	5·6	3·0	3
90	9·0	90	9·5	85	9·4	85	9·5	90	9·0	85	8·5	85	8·4	85	7·8	90	7·4	95	7·5	95	6·0	90	5·3	7·7	4
85	7·8	80	8·7	80	9·0	85	9·0	80	8·1	80	10·3	80	9·9	85	8·3	85	7·4	90	8·0	80	7·7	85	7·6	7·1	5
80	12·5	75	12·2	70	13·0	70	12·9	65	11·2	70	10·7	65	10·6	65	11·0	65	10·5	65	10·0	60	9·5	65	10·1	**10·9**	6
60	11·5	60	11·5	70	12·0	65	11·7	55	10·6	60	10·9	50	10·5	55	9·3	55	8·8	65	9·8	75	10·5	70	9·5	10·3	7
65	10·0	60	10·0	60	9·0	60	8·1	60	8·0	60	6·6	45	4·5	35	4·6	20	3·3	20	2·7	355	1·7	355	2·0	7·7	8
70	6·3	40	5·0	60	4·6	70	3·6	5	5·5	360	5·4	360	3·5	355	2·8	340	2·5	355	1·8	325	0·7	260	0·5	3·8	9
320	3·0	330	4·3	330	4·5	305	3·8	300	2·3	305	1·8	315	2·3	280	2·1	280	2·9	280	2·2	295	2·9	270	2·9	2·4	10
330	4·8	325	4·0	335	4·5	335	3·5	335	3·2	305	2·6	315	3·5	310	3·4	295	2·0	260	2·4	265	2·7	265	3·5	3·9	11
325	2·6	320	2·5	350	2·7	290	2·0	325	0·7	305	0·1	360	0·1	160	0·1	185	1·1	205	0·3	210	0·3	220	1·0	2·2	12
230	5·3	240	6·0	235	5·9	240	5·1	240	4·0	230	4·5	225	3·8	220	4·0	220	4·5	210	2·9	215	3·3	215	4·0	2·7	13
265	4·5	265	4·6	260	4·1	280	3·8	255	3·3	240	2·3	230	2·8	230	2·5	230	2·9	230	1·6	230	1·8	245	0·8	3·3	14
160	3·6	140	3·1	105	3·9	115	3·4	95	4·6	90	4·8	90	4·0	85	4·4	75	4·2	75	4·4	70	4·5	75	5·8	2·3	15
80	9·8	80	9·8	85	11·0	80	10·5	85	10·8	80	9·8	80	10·0	85	9·0	90	9·0	90	10·8	90	10·3	90	9·6	8·3	16
80	6·8	80	8·1	80	7·5	85	8·0	85	7·0	90	6·0	90	6·3	90	5·5	90	5·0	85	4·6	75	4·1	80	2·8	6·6	17
100	4·7	130	5·1	140	5·6	170	5·8	165	4·2	165	3·4	175	2·5	165	1·0	160	1·3	165	2·6	185	2·1	170	0·8	3·6	18
150	7·9	140	6·6	130	6·4	140	6·1	145	5·1	115	4·6	115	4·3	120	2·0	100	2·5	85	2·7	90	2·9	90	2·1	3·6	19
170	5·5	175	6·5	165	6·4	130	6·2	130	6·3	115	4·1	105	4·3	110	4·0	130	3·5	175	4·4	175	2·7	135	2·0	3·6	20
225	6·0	220	6·0	220	5·4	230	4·6	230	3·8	205	4·5	200	3·9	215	4·1	210	2·9	220	3·1	250	2·1	245	3·5	4·7	21
195	4·3	200	6·1	195	5·2	190	4·6	190	4·0	185	3·3	195	3·1	170	2·0	150	1·4	160	0·9	110	0·2	160	0·2	2·7	22
180	2·0	165	1·5	140	1·0	150	1·1	100	1·2	80	0·3	30	3·8	25	5·5	25	4·3	20	4·3	20	4·3	20	5·8	1·7	23
30	8·5	30	8·9	40	8·0	35	8·4	40	8·3	45	8·7	45	7·8	45	7·9	50	7·8	55	6·8	50	7·0	50	6·5	7·0	24
95	4·9	95	6·9	95	6·7	90	7·0	90	6·5	90	5·8	95	5·2	85	6·9	85	7·1	75	6·0	75	5·1	65	5·2	6·1	25
85	5·5	80	5·9	95	5·4	90	6·4	80	6·5	80	5·1	90	5·5	90	3·5	95	3·3	75	2·1	70	1·0	45	0·4	4·4	26
240	1·3	255	1·6	290	2·4	290	1·5	265	0·8	310	0·4	205	1·0	230	2·0	235	1·8	220	1·5	220	1·1	220	0·8	**0·9**	27
360	4·0	10	4·8	70	5·9	90	7·8	90	8·5	70	7·5	65	8·1	70	8·1	70	8·5	70	8·4	75	8·5	80	9·3	4·1	28
125	7·1	125	6·3	130	6·5	130	6·4	130	6·1	100	5·0	90	6·1	90	6·1	95	6·3	100	5·6	105	5·0	115	5·0	6·5	29
115	7·1	125	7·3	125	7·3	95	7·7	95	8·5	95	8·1	90	7·2	90	7·8	95	7·0	95	6·5	95	6·8	95	7·4	6·0	30
110	7·6	85	9·1	80	10·0	90	9·9	85	9·8	90	9·5	85	9·0	95	7·1	95	7·0	95	6·4	95	5·8	100	5·1	7·6	31
—	6·1	—	6·5	—	**6·5**	—	6·3	—	5·9	—	5·4	—	5·2	—	4·9	—	4·7	—	4·5	—	4·2	—	4·2	4·9	—

April, 1931.

°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
115	9·0	110	8·4	115	8·1	95	9·1	90	9·3	95	8·5	95	8·9	95	7·8	95	7·0	95	5·8	95	4·5	100	4·1	6·9	1
110	3·0	100	2·5	95	2·3	125	3·2	115	2·2	90	2·5	70	1·6	75	2·0	65	1·7	50	1·5	55	1·3	50	2·0	3·1	2
340	4·0	350	4·2	350	4·0	330	3·8	335	3·5	330	3·7	330	3·8	330	4·7	335	4·7	340	5·1	340	3·5	330	3·3	3·6	3
325	4·1	310	4·0	315	3·7	320	3·7	310	3·7	300	3·7	290	2·5	270	2·0	250	1·8	250	2·2	250	2·2	230	3·0	3·7	4
305	1·7	275	1·9	245	2·2	240	2·6	250	2·6	240	2·4	230	2·5	230	1·5	235	1·3	230	1·9	230	2·0	240	2·1	3·2	5
95	2·5	135	2·2	150	2·1	145	2·0	120	1·5	130	2·3	125	3·7	145	2·5	120	2·8	125	3·1	115	2·5	105	1·6	2·4	6
120	2·5	125	2·5	130	3·0	135	2·7	140	3·1	130	2·2	115	1·9	120	2·4	120	3·1	170	3·5	170	2·5	180	1·4	2·8	7
185	5·1	185	5·8	190	5·9	200	5·5	185	4·8	210	4·5	210	3·0	190	1·6	185	1·7	190	1·3	215	1·4	235	0·5	3·1	8
220	3·9	235	3·1	245	3·6	245	2·9	240	3·0	280	2·3	300	1·2	290	0·8	275	1·3	285	1·8	295	2·4	280	1·2	**1·7**	9
45	3·4	30	3·5	15	3·5	5	3·1	15	3·4	25	3·1	85	2·2	95	3·7	85	4·9	85	3·1	95	1·7	95	1·9	3·3	10
230	2·9	230	3·9	225	4·9	220	4·8	210	5·5	225	5·0	215	4·0	200	3·6	215	3·0	225	1·5	235	1·0	210	1·0	2·2	11
280	5·2	285	5·5	300	6·0	300	5·2	300	4·9	330	4·1	345	6·5	330	3·5	320	3·8	315	2·7	310	2·2	280	1·6	3·5	12
330	5·6	315	5·9	330	5·9	330	6·3	330	6·5	330	5·4	330	2·8	320	3·0	330	1·0	290	1·4	250	2·0	235	2·6	4·8	13
315	4·7	315	4·5	310	4·8	310	4·5	310	3·8	305	4·3	315	3·4	265	1·1	270	0·8	285	0·6	285	1·0	285	1·6	3·4	14
255	3·4	265	4·0	255	3·8	260	4·5	250	4·0	250	3·5	250	2·9	250	2·2	285	2·9	290	3·7	315	5·2	315	5·1	2·9	15
360	4·9	350	3·8	330	2·9	325	3·5	325	4·9	325	4·7	300	2·5	285	2·2	270	3·1	270	3·7	265	4·0	255	4·1	4·8	16
320	8·2	305	7·4	320	8·4	310	8·1	290	5·2	310	7·6	310	6·9	305	3·6	270	2·4	260	2·8	295	5·1	305	2·9	6·1	17
20	7·0	10	7·7	30	5·5	10	8·1	5	7·9	345	5·8	350	6·5	350	6·5	355	7·0	360	7·9	360	7·0	360	7·5	6·3	18
25	8·5	30	9·0	25	8·0	30	8·3	25	8·4	25	8·5	25	7·6	25	7·5	25	7·3	25	7·6	30	8·1	25	7·8	**7·8**	19
25	8·1	35	7·7	50	6·3	45	6·6	30	4·5	25	6·1	15	4·3	25	4·7	25	4·5	25	4·6	20	4·3	20	5·5	7·3	20
360	5·3	360	4·3	360	4·4	5	5·0	10	4·5	10	4·7	10	3·2	5	1·1	320	0·2	300	0·2	260	1·0	275	0·6	4·0	21
280	3·6	275	4·5	280	4·0	280	5·0	245	4·5	240	3·2	230	3·5	215	4·0	220	3·3	240	3·5	235	3·0	220	2·6	2·7	22
210	9·5	210	9·8	210	9·0	210	8·4	210	8·0	200	6·1	180	5·5	180	5·1	190	4·9	190	4·6	185	3·4	170	4·6	5·5	23
185	9·2	185	8·5	170	9·3	190	7·6	180	4·6	170	4·6	170	4·5	145	4·5	135	5·5	135	5·9	150	5·0	150	5·9	6·3	24
200	10·3	205	9·0	220	11·5	240	8·5	220	6·8	220	7·9	210	6·0	210	5·5	220	6·6	230	5·9	225	5·5	230	6·0	7·1	25
230	7·8	260	8·1	260	7·5	260	6·3	255	6·5	255	6·3	255	5·0	245	4·5	260	4·4	270	4·3	275	3·1	275	4·5	6·1	26
315	8·0	305	6·7	295	7·4	300	6·6	300	6·5	305	6·8	305	4·5	280	4·0	275	3·8	290	5·0	290	5·5	305	7·1	6·1	27
315	3·6	300	4·9	265	5·1	280	4·5	285	4·3	280	4·3	275	3·1	280	3·5	280	2·6	285	2·5	305	3·0	280	1·6	4·6	28
345	2·8	350	3·2	345	2·5	320	2·5	310	2·5	335	1·8	110	1·5	85	0·9	30	0·5	—	0·0	—	0·0	—	0·0	2·3	29
230	4·9	240	4·9	225	5·9	230	6·0	220	6·4	220	6·3	210	4·4	205	3·1	210	3·0	210	2·7	220	3·0	215	2·1	2·9	30
—	5·4	—	5·4	—	5·4	—	5·3	—	4·9	—	4·7	—	4·0	—	3·4	—	3·4	—	3·3	—	3·2	—	**3·2**	4·3	—
13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day

Directions expressed in degrees from North (E=90°, S=180°, W=270°, N=360°): Speed in metres per second.

515. Richmond (Kew Observatory): H_a (height of vane of anemograph above M.S.L.) = Height of ground above

Dines Anemograph from Jan., 1926.

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	235	1·9	230	2·4	220	1·5	230	1·3	225	1·4	235	1·1	210	2·5	235	1·7	235	3·2	225	3·0	225	3·1	230	4·6
2	90	0·3	330	0·1	235	0·1	—	0·0	350	0·4	110	0·2	240	0·1	—	0·0	50	2·2	50	1·5	360	2·6	5	3·6
3	40	4·3	35	4·5	20	4·5	20	3·6	20	3·8	20	5·4	25	6·5	25	7·5	20	7·3	10	7·3	10	7·6	10	7·9
4	325	4·8	325	4·5	310	4·0	310	4·1	315	4·1	285	3·0	290	1·9	315	4·4	300	5·1	285	4·0	275	4·4	280	4·4
5	205	2·6	210	3·1	205	3·1	190	3·0	185	3·1	190	4·5	190	3·5	210	4·6	210	7·5	205	7·1	205	7·8	210	8·6
6	115	1·4	120	1·5	145	2·2	130	2·0	135	2·9	130	3·3	140	4·0	140	5·8	150	6·5	145	6·0	145	7·0	130	7·2
7	210	0·5	235	2·5	235	3·0	235	2·5	240	2·5	250	2·9	260	4·1	270	5·4	280	5·3	285	5·5	275	5·4	280	5·1
8	235	1·7	235	1·5	215	0·1	200	0·1	225	0·1	70	0·1	65	0·1	355	0·7	10	1·0	—	0·0	330	1·1	310	1·6
9	320	2·9	345	3·8	355	5·5	360	4·9	350	4·8	5	5·3	5	5·0	15	5·2	15	6·0	20	4·4	15	4·1	25	3·6
10	175	0·6	170	0·9	185	1·5	195	1·1	205	1·6	215	2·0	210	3·0	210	3·1	190	3·7	220	5·2	220	5·2	210	5·5
11	200	0·9	190	2·2	195	2·8	205	2·9	200	2·3	200	2·1	205	3·1	220	6·0	220	5·4	240	5·8	225	6·0	235	6·4
12	225	2·5	230	1·5	230	1·9	225	2·0	210	2·0	220	2·6	230	4·0	220	4·4	220	3·8	225	5·0	210	6·1	210	6·2
13	240	3·2	235	3·9	220	3·0	215	4·0	200	3·0	180	4·0	190	4·2	185	3·0	180	4·0	180	4·0	185	5·5	190	6·3
14	225	4·9	215	4·8	210	4·6	210	5·1	220	5·7	225	6·2	230	8·8	230	9·0	230	10·2	225	8·6	230	9·7	230	11·2
15	210	3·7	200	3·5	170	2·3	170	1·9	185	2·6	175	3·4	185	4·5	190	4·9	180	6·0	185	5·0	190	5·1	195	3·9
16	220	5·1	220	4·3	215	4·4	215	4·0	210	4·8	210	4·7	225	3·2	230	2·7	185	2·7	190	2·8	170	3·9	185	3·0
17	20	1·9	25	1·7	50	2·1	5	2·1	360	1·5	330	1·0	345	2·0	335	2·4	320	2·0	320	1·2	270	0·6	275	0·5
18	255	4·7	255	4·6	260	4·5	270	4·1	275	3·8	270	3·6	280	3·2	320	2·1	340	2·8	345	1·4	360	2·9	5	2·2
19	30	4·1	45	4·5	50	4·5	55	4·0	45	4·6	45	5·6	50	5·1	45	5·9	45	6·6	45	5·7	40	7·0	45	6·6
20	35	6·1	25	5·4	25	4·9	20	5·0	15	4·9	20	5·6	25	7·4	30	7·6	35	7·7	35	6·9	30	7·0	20	6·1
21	30	3·0	35	2·9	45	3·6	40	3·0	40	2·6	40	3·0	65	5·3	75	5·9	80	5·8	100	5·6	95	5·2	105	5·5
22	100	1·2	50	1·7	75	1·0	30	0·8	85	0·6	165	1·3	210	2·2	230	2·6	235	3·0	240	2·9	235	3·1	230	4·0
23	165	0·5	100	1·0	110	1·6	95	1·4	85	1·6	105	1·7	130	2·5	170	3·6	140	3·4	180	4·4	185	4·0	250	2·7
24	100	0·7	110	2·0	85	1·0	30	0·5	60	0·8	15	1·0	360	0·4	280	2·0	280	2·5	245	3·6	240	5·2	235	7·7
25	200	3·0	210	3·0	245	0·2	175	0·2	170	1·9	195	2·6	180	3·5	205	4·9	215	4·8	210	6·2	215	6·3	210	6·1
26	250	0·5	325	0·5	70	1·0	210	0·5	60	0·3	—	0·0	90	3·0	100	5·3	105	5·6	110	5·7	100	5·8	85	5·2
27	40	1·7	90	1·0	40	1·1	5	1·5	5	2·0	45	1·6	50	2·1	50	2·9	45	2·1	60	4·4	70	5·0	90	7·3
28	70	4·7	65	3·0	55	4·9	55	5·3	60	4·0	65	4·9	65	5·4	90	5·0	110	4·1	100	2·5	200	4·5	220	5·0
29	190	1·0	360	0·3	95	0·4	80	1·4	70	0·6	85	1·6	90	2·3	120	5·5	105	6·4	125	7·6	125	7·2	120	6·5
30	165	3·2	175	2·6	175	2·4	170	2·0	175	2·0	190	2·7	190	2·9	185	2·9	190	4·0	200	4·0	180	4·5	180	3·9
31	210	0·9	260	0·1	205	0·2	110	0·3	65	0·2	160	0·2	220	2·0	245	2·0	225	4·1	210	4·0	200	4·5	215	5·3
Mean ...	—	2·5	—	2·6	—	2·5	—	2·4	—	2·5	—	2·8	—	3·5	—	4·2	—	4·7	—	4·6	—	5·1	—	5·3

516. Richmond (Kew Observatory): H_a = 5 metres + 23 metres.

	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	195	3·6	195	3·3	185	2·5	175	3·1	180	3·4	190	3·5	220	2·8	205	3·2	185	3·9	165	2·5	185	3·8	230	3·1
2	275	1·6	290	1·5	345	0·8	305	0·5	330	0·3	140	0·1	230	0·3	250	0·5	260	1·0	300	1·9	260	2·0	235	3·0
3	235	4·1	230	4·6	230	4·5	240	4·0	235	4·0	235	4·3	250	3·9	270	3·4	275	3·5	275	4·0	285	4·5	295	3·6
4	85	3·7	80	3·5	90	3·5	85	4·1	85	4·1	95	4·6	95	4·4	95	4·5	85	4·9	80	5·7	85	5·6	90	4·9
5	80	6·6	80	6·4	80	7·7	75	7·5	80	8·0	75	10·5	80	9·0	85	9·9	90	10·7	90	10·3	90	11·5	90	11·9
6	90	7·4	110	4·5	120	1·0	220	2·7	230	4·5	240	4·0	240	3·0	240	5·4	245	4·5	250	5·5	250	5·4	240	6·8
7	225	3·6	235	2·6	220	4·1	225	3·5	225	3·4	230	4·5	225	4·5	235	4·5	215	4·1	215	5·2	210	5·1	200	4·7
8	240	3·4	265	4·0	260	3·8	250	3·5	240	4·4	240	3·9	250	4·6	255	5·0	255	6·5	250	6·1	260	6·4	260	5·5
9	205	2·4	195	2·6	205	3·0	185	2·9	175	3·0	170	2·7	165	2·6	195	4·7	210	4·6	225	5·7	225	7·2	230	7·4
10	230	5·9	225	5·2	220	6·5	225	6·8	225	6·6	220	6·7	225	7·0	225	6·9	215	6·6	215	7·2	215	7·4	225	7·1
11	230	6·5	225	6·3	230	5·9	225	6·6	230	5·1	230	5·9	230	6·0	230	5·8	230	5·1	225	5·5	230	5·0	230	5·1
12	205	3·0	210	3·6	220	2·6	205	2·0	200	3·2	210	3·0	230	3·5	230	4·1	240	4·4	235	4·2	230	5·5	235	5·4
13	240	1·0	235	1·2	220	0·6	210	0·1	—	0·0	260	0·6	235	2·2	245	3·2	240	2·0	200	2·5	190	3·5	185	4·7
14	90	4·9	85	4·1	90	4·4	80	4·1	85	4·0	80	4·1	70	3·9	75	3·7	95	3·8	85	5·5	90	6·0	85	5·0
15	230	6·0	250	6·1	255	6·4	250	6·2	260	6·6	270	7·1	270	6·9	275	6·8	270	6·5	265	6·2	260	6·0	245	5·7
16	185	2·6	200	4·2	185	3·0	170	3·0	180	3·1	200	4·6	205	6·6	215	8·8	220	9·0	215	7·3	220	7·9	220	7·0
17	185	2·9	165	2·5	170	4·5	170	4·6	180	5·0	200	4·7	200	4·1	215	4·9	255	4·8	275	5·5	265	5·5	265	5·5
18	245	2·9	225	2·5	220	3·0	225	2·7	225	4·0	230	5·0	230	4·9	235	5·6	245	6·0	250	6·0	255	6·4	245	6·8
19	210	6·5	205	6·0	200	5·1	180	3·5	200	4·0	215	4·0	200	3·6	210	3·7	215	4·6	195	4·0	185	6·0	210	4·9
20	310	1·9	320	1·6	330	1·4	300	1·0	355	4·5	340	4·0	345	4·9	5	5·2	10	5·1	355	4·5	15	5·0	355	4·3
21	225	1·5	230	1·6	245	1·3	230	1·2	230	1·0	230	2·7	235	3·2	240	4·5	255	5·1	240	5·2	250	4·8	255	4·1
22	225	2·2	230	1·6	230	2·3	230	2·5	245	2·8	260	3·9	255	4·1	260	4·0	250	3·7	260	3·7	275	4·2	270	4·5
23	340	0·5	335	0·6	340	1·0	340	0·8	—	0·0	255	0·2	255	0·5	265	0·4	360	0·1	345	0·8	315	0·8	310	1·1
24	340	1·0	340	0·5	330	1·2	345	1·7	340	1·7	345	1·3	10	3·4	25	5·1	25	6·9	30	5·8	35	5·5	30	6·5
25	10	2·8	5	2·4	15	3·0	10	2·7	15	3·3	25	4·5	25	4·9	40	5·7	35	5·8	30	4·8	40	5·2	35	5·1
26	105	0·6	60	0·3	25	0·3	—	0·0	—	0·0	—	0·0	—	0·0	—	0·0	10	0·1	330	0·4	210	1·8	175	2·3
27	215	0·6	215	0·4	210	0·5	230	0·1	250	0·1	245	0·2	235	0·3	255	0·5	260	2·4	250	2·4	240	3·5	240	4·2
28	235	1·2	235	0·9	225	0·9	230	1·1	240	0·6	280	2·5	285	1·4	260	2·0	265	2·0	260	2·0	250	2·7	240	3·1
29	260	0·2	330	1·6	345	1·6	5	3·1	5	2·6	350	3·0	350	2·7	350	4·8	350	3·8	320	3·0	350	4·0	330	3·5
30	25	2·6	20	1·4	15	1·4	360	0·8	355	1·3	5	1·5	45	1·5	125	0·2	210	1·2	245	1·4	260	0·9	90	1·0
Mean ...	—	3·1	—	2·9	—	2·9	—	2·9	—	3·2	—	3·6	—	3·7	—	4·2	—	4·4	—	4·5	—	5·0	—	4·9
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes, centred at exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 5 metres + 23 metres.

May, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
255	4·0	260	3·3	235	3·1	285	2·8	245	1·5	235	2·4	225	2·5	245	1·8	295	0·5	5	2·0	20	1·4	65	0·3	2·3	1
10	4·4	5	4·1	35	4·5	50	4·2	50	5·1	80	4·8	90	4·8	75	4·8	60	4·5	50	4·4	45	4·6	45	4·9	2·7	2
5	8·0	360	8·3	355	7·8	350	6·7	350	6·6	350	7·2	345	6·3	345	4·6	345	4·9	340	5·0	330	4·8	320	4·5	6·0	3
275	5·2	265	3·7	275	4·5	230	7·6	230	6·5	225	5·1	235	4·8	215	4·1	220	4·8	220	3·6	230	3·9	215	3·1	4·4	4
205	9·6	215	8·6	210	8·7	210	8·0	210	7·0	210	7·1	190	4·9	165	3·0	155	2·9	140	2·5	145	2·9	160	2·6	5·3	5
135	7·8	135	7·6	145	7·5	130	7·0	115	6·4	100	6·1	90	5·7	80	4·6	80	5·1	130	3·3	90	0·3	—	0·0	4·7	6
280	4·8	285	4·9	280	4·3	270	4·0	270	4·5	265	3·7	235	3·6	235	3·1	230	3·2	230	3·0	235	2·1	235	1·6	3·6	7
320	3·0	330	4·1	325	3·7	325	3·8	325	4·0	340	5·9	10	6·1	5	4·5	350	3·0	315	2·8	315	2·8	315	2·7	2·3	8
10	2·8	20	1·5	320	2·1	320	2·0	340	2·1	340	1·1	25	1·3	85	2·5	125	1·5	115	1·2	160	1·5	180	2·0	3·2	9
225	5·3	215	6·3	225	4·6	210	4·5	205	4·2	200	3·8	205	3·9	195	3·7	190	3·4	190	3·1	205	2·4	200	1·9	3·4	10
225	6·2	225	6·5	205	6·5	220	7·0	230	6·8	245	4·9	230	4·8	220	4·9	225	4·9	220	4·5	225	3·1	220	2·5	4·5	11
215	6·7	220	8·1	225	7·6	225	7·0	250	5·1	250	4·3	240	3·5	210	3·1	210	3·7	230	2·0	250	2·5	230	2·8	4·1	12
205	7·9	215	8·0	215	8·4	235	7·9	245	6·4	255	4·9	235	4·2	220	4·0	210	4·8	210	5·2	220	6·1	230	4·9	5·0	13
230	10·8	225	10·8	220	10·5	225	10·0	225	9·6	225	9·5	225	6·8	225	6·6	225	6·0	225	5·2	210	4·3	200	2·7	7·6	14
190	4·8	170	3·8	180	4·2	180	5·0	150	4·0	170	4·6	195	5·5	210	7·1	210	6·0	210	6·5	210	5·2	210	5·6	4·5	15
190	2·1	200	2·5	175	1·2	170	2·1	150	2·8	100	0·8	95	1·5	100	1·4	95	3·2	80	2·1	70	1·8	40	1·1	2·7	16
260	2·6	270	3·4	280	3·7	270	3·3	270	3·9	265	4·2	265	4·7	270	5·0	265	4·7	255	4·6	255	4·3	245	4·9	2·8	17
20	2·1	30	3·7	25	4·7	45	4·9	50	4·4	40	4·3	35	5·1	40	5·1	50	5·2	50	5·1	40	4·2	30	3·9	3·9	18
40	6·5	35	6·6	30	6·3	35	6·5	30	6·1	30	6·0	35	6·0	35	5·6	35	7·1	35	6·6	35	6·5	25	6·7	5·8	19
20	6·0	20	6·4	25	6·5	25	6·2	25	5·5	35	5·8	30	4·8	35	4·5	50	4·1	40	3·7	30	3·5	40	3·1	5·7	20
95	6·4	95	6·5	100	6·0	115	5·1	110	5·6	115	5·0	105	6·2	95	5·8	95	5·5	95	5·4	90	4·6	90	4·0	4·9	21
235	4·6	235	4·2	230	5·0	225	4·9	220	6·0	225	6·1	230	3·9	195	1·0	195	1·5	170	0·6	90	0·5	70	0·3	2·7	22
260	1·2	245	0·6	100	2·0	5	2·7	345	3·5	355	3·0	350	2·0	355	1·5	340	0·5	210	0·2	120	0·2	95	1·0	1·9	23
240	8·4	235	8·5	225	9·6	220	8·1	220	7·5	215	6·4	215	6·1	225	4·8	220	3·9	200	2·7	195	3·5	200	3·2	4·1	24
220	5·9	210	6·0	225	5·1	230	4·8	230	4·5	240	3·5	240	1·9	220	2·5	215	1·5	235	1·3	240	1·0	300	1·5	3·5	25
110	4·3	105	3·8	95	4·5	80	5·1	80	4·8	75	3·5	75	3·2	80	3·5	80	3·5	80	2·1	60	1·5	60	1·9	3·1	26
95	7·2	100	6·5	85	7·4	90	8·2	80	7·8	90	8·8	85	7·5	85	7·3	85	6·5	75	6·0	75	7·0	100	5·3	4·9	27
220	6·3	225	7·2	225	7·5	225	6·1	220	7·4	225	6·5	235	5·0	215	3·2	195	2·5	200	2·5	200	2·0	185	1·2	4·7	28
130	6·5	165	6·3	180	6·8	190	6·9	200	6·0	215	4·6	195	2·9	180	2·7	165	1·6	155	1·8	160	1·9	165	3·0	3·8	29
170	4·2	180	4·4	185	4·0	170	3·2	160	2·0	160	2·1	170	1·7	185	1·8	210	2·0	215	1·8	185	0·5	210	1·0	2·8	30
220	5·2	235	5·7	225	5·8	210	6·8	205	6·9	215	6·3	220	5·4	230	4·5	220	3·8	210	3·8	200	4·0	200	3·8	3·5	31
—	5·5	—	5·5	—	5·6	—	5·6	—	5·3	—	4·9	—	4·4	—	4·0	—	3·8	—	3·4	—	3·1	—	2·8	4·0	—

June, 1931.

°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
280	1·6	260	2·0	260	2·5	250	2·0	300	1·9	295	1·5	290	1·6	265	1·0	265	2·2	265	2·0	250	1·2	235	0·7	2·5	1
275	2·2	245	2·4	255	3·1	230	4·3	230	5·0	240	5·5	225	5·6	220	4·6	220	4·6	230	4·8	225	4·8	235	4·8	2·6	2
290	3·6	320	3·6	355	4·4	345	3·6	330	3·0	315	1·2	215	0·2	50	3·3	60	4·1	90	5·2	95	3·9	90	4·1	3·7	3
95	4·6	95	5·5	90	7·0	85	7·8	90	7·9	90	7·8	100	8·4	80	8·0	80	7·6	80	6·8	75	7·8	80	9·0	5·8	4
90	12·2	90	10·7	90	8·6	90	8·9	80	9·5	80	10·8	90	10·0	85	8·4	90	9·3	90	8·9	90	8·6	100	6·7	9·3	5
230	6·8	230	6·5	220	7·2	220	7·3	225	7·1	230	6·5	225	7·1	230	4·7	230	5·0	225	4·5	225	4·5	230	4·8	5·3	6
210	5·9	190	5·5	180	5·0	180	4·4	165	4·2	160	3·0	150	2·1	160	1·5	180	1·0	200	1·4	230	2·8	235	2·1	3·7	7
240	6·0	240	6·4	230	6·6	225	7·0	220	6·8	220	5·9	220	4·6	225	5·0	220	4·0	220	3·5	210	2·9	220	3·0	4·9	8
230	7·4	230	8·0	230	8·0	230	8·5	230	7·5	230	7·5	230	5·9	230	6·3	225	5·7	225	6·0	225	6·2	220	6·1	5·4	9
225	7·0	220	7·3	230	8·6	230	8·0	230	7·5	230	7·0	225	6·5	230	6·5	230	6·6	230	7·0	230	6·4	230	6·6	6·9	10
225	5·3	220	6·3	220	6·0	220	5·5	210	4·5	215	4·1	215	4·9	220	6·0	220	6·0	220	4·9	225	3·0	220	2·4	5·4	11
250	5·4	260	5·3	295	5·4	290	4·6	305	5·6	300	5·5	285	3·1	275	2·5	285	1·2	255	1·0	225	2·0	240	1·5	3·7	12
170	4·6	165	4·1	170	4·0	185	3·5	210	2·6	175	3·0	170	3·7	170	2·0	150	1·2	130	0·1	95	1·1	90	3·8	2·3	13
75	5·0	160	8·0	230	9·2	240	8·6	230	8·7	230	8·8	230	7·0	230	5·7	230	5·2	230	5·0	220	5·6	225	6·5	5·6	14
245	5·8	235	6·0	225	7·5	220	8·5	220	8·6	220	8·9	220	7·3	210	4·4	210	4·1	210	4·1	200	4·4	195	3·1	6·3	15
215	6·6	210	7·5	220	6·5	220	7·1	215	6·7	215	5·9	215	5·3	205	4·8	190	4·0	190	2·9	200	3·2	190	2·7	5·4	16
260	6·0	265	5·9	265	4·9	260	5·9	245	5·3	240	5·4	240	5·1	245	3·7	235	3·0	235	2·9	240	2·8	245	2·5	4·5	17
250	5·5	230	6·6	220	7·6	230	7·8	230	8·5	225	8·0	225	8·3	220	7·2	220	6·1	210	5·8	205	6·0	210	6·4	5·7	18
225	6·9	235	4·7	215	5·5	225	3·0	250	2·7	200	1·5	180	2·0	240	0·5	160	0·2	235	0·4	250	1·0	270	0·4	3·7	19
10	4·7	360	3·0	340	2·0	340	2·0	280	2·3	265	2·0	275	0·6	235	0·6	205	1·0	215	0·7	220	1·4	225	2·5	2·7	20
235	4·2	255	4·0	260	4·4	265	4·0	250	4·5	265	3·6	285	2·8	265	2·1	265	2·5	240	2·1	230	2·4	240	2·5	3·1	21
305	3·9	300	3·8	300	4·0	305	3·9	300	4·1	300	3·0	345	3·6	5	4·6	10	4·5	15	2·4	15	1·0	340	0·5	3·3	22
300	1·6	290	2·0	340	1·7	250	1·7	335	1·3	320	1·9	305	1·6	280	0·1	225	0·1	20	3·0	25	1·5	5	2·2	1·0	23
40	6·7	50	6·5	50	5·7	35	6·2	40	6·8	35	6·4	40	6·8	30	6·3	30	5·2	20	3·9	30	4·3	20	4·1	4·5	24
35	4·2	30	4·5	30	4·6	30	4·3	15	2·7	10	3·5	15	3·6	55	2·1	125	2·1	125	1·9	135	0·8	135	1·0	3·6	25
210	2·0	205	2·5	230	2·6	230	2·5	240	2·8	260	2·6	240	1·8	250	1·0	265	0·1	230	0·2	210	0·6	210	0·8	1·1	26
250	4·2	245	4·0	240	4·4	235	3·8	260	2·8	290	3·0	265	2·0	255	0·8	235	2·0	230	3·0	235	1·8	235	1·5	2·0	27
255	3·0	265	3·0	260	3·2	290	3·5	280	2·6	250	3·3	265	2·4	260	1·6	260	1·6	280	2·0	270	1·6	260	1·3	2·1	28
340	3·4	325	2·6	335	3·1	320	3·0	330	3·5	350	3·1	5	3·3	5	3·1	5	3·3	30	2·8	50	3·2	45	3·6	2·9	29
40	0·7	230	0·8	85	1·9	95	2·9	120	2·5	105	2·8	165	3·2	210	2·4	165	2·2	175	1·5	165	0·2	110	0·5	1·6	30
—	4·9	—	5·0	—	5·2	—	5·1	—	5·0	—	4·8	—	4·3	—	3·7	—	3·5	—	3·4	—	3·2	—	3·3	4·0	—
13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day

Direction expressed in degrees from North (E=90°, S=180°, W=270°, N=360°): Speed in metres per second.

517. Richmond (Kew Observatory): H_a (height of vane of anemograph above M.S.L.) = Height of ground above

Dines Anemograph from Jan., 1926.

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	110	0·1	35	0·2	30	0·1	5	0·1	350	0·1	—	0·0	—	0·0	350	0·1	210	0·2	40	0·3	110	0·2	310	0·2
2	230	3·0	225	3·4	230	2·5	235	2·0	225	2·5	220	4·1	230	4·7	240	5·3	240	5·8	230	5·5	230	6·0	230	7·5
3	225	2·6	235	2·4	220	2·5	235	1·5	220	1·9	245	1·5	245	1·5	250	2·5	250	3·1	230	2·7	220	3·7	220	4·1
4	210	4·0	225	4·5	220	4·0	210	4·2	210	4·5	210	4·5	220	5·5	225	5·2	220	5·8	240	4·1	210	5·5	220	6·3
5	195	2·4	175	1·6	185	1·8	165	2·1	155	2·7	175	5·1	180	5·3	190	5·5	210	2·8	200	3·5	190	4·3	210	5·0
6	250	1·5	230	1·5	230	1·2	220	1·7	225	1·7	210	2·5	250	3·5	245	3·4	260	2·4	250	2·7	230	3·0	220	3·5
7	215	1·0	210	0·6	200	0·7	205	1·0	195	1·5	220	1·4	225	1·5	230	1·4	230	2·0	250	2·5	210	2·0	240	1·9
8	260	2·0	250	2·5	265	3·0	250	2·4	250	1·5	260	2·5	290	3·1	290	3·3	280	3·5	280	4·2	265	4·9	270	3·5
9	240	4·2	240	3·5	230	3·5	235	4·0	230	4·8	240	4·2	235	5·2	250	5·9	250	6·1	250	5·1	255	5·1	260	5·0
10	220	3·8	225	3·0	220	2·8	220	4·8	230	4·7	225	4·5	230	5·4	235	5·2	230	6·2	230	6·5	220	6·5	210	5·5
11	230	2·9	230	3·0	230	4·0	230	3·6	230	3·4	230	4·0	245	4·5	255	3·6	255	4·0	265	3·9	240	5·0	240	5·5
12	100	0·5	95	0·3	115	1·3	165	4·6	150	4·0	145	2·8	150	3·9	145	5·6	185	4·0	140	4·7	170	6·5	185	8·1
13	225	4·1	215	4·2	215	3·6	215	3·6	205	4·1	210	4·0	205	4·5	205	5·7	200	6·2	200	5·5	205	6·5	220	7·0
14	195	2·5	195	2·5	190	3·0	185	2·9	185	3·5	195	4·5	200	4·8	190	5·5	200	5·6	195	6·4	175	6·4	175	6·8
15	60	3·5	10	2·9	10	2·1	350	3·4	350	3·4	325	3·5	310	4·8	300	4·5	295	4·0	300	4·8	305	5·0	300	4·5
16	260	2·6	265	3·5	270	3·5	275	2·5	265	2·5	270	2·2	265	2·6	270	3·5	280	3·9	295	4·5	290	5·2	290	5·2
17	225	2·9	215	3·1	220	4·6	225	4·9	225	4·6	235	4·2	245	4·9	255	4·8	260	6·4	265	6·4	270	6·2	270	6·4
18	240	6·6	250	7·1	245	7·2	255	6·4	250	6·2	245	5·0	255	5·3	260	6·9	265	6·8	260	5·8	260	6·0	255	5·6
19	215	2·5	220	1·9	210	1·0	200	1·5	215	1·2	220	2·5	230	3·4	240	2·9	245	3·0	260	4·6	270	2·9	315	4·1
20	275	1·6	270	1·5	280	1·5	260	1·4	300	2·7	320	3·2	315	4·0	305	4·1	320	4·5	335	4·4	325	4·7	330	5·0
21	265	0·8	265	1·5	285	2·1	250	1·8	240	1·6	245	1·6	275	1·5	320	3·6	320	3·8	330	3·7	305	3·9	295	2·9
22	220	3·5	225	3·7	235	3·1	225	3·4	225	4·5	225	4·4	230	3·9	240	4·0	245	4·5	225	5·2	230	5·2	220	6·0
23	215	3·0	205	3·0	225	1·5	245	1·0	195	1·0	185	1·5	205	2·5	205	4·0	225	4·8	210	5·2	215	5·0	210	5·5
24	270	0·7	260	0·1	240	0·3	190	0·1	265	0·2	220	0·5	245	1·5	250	1·5	235	1·6	235	2·4	245	3·4	220	5·0
25	90	0·7	125	0·7	120	1·4	120	1·9	135	1·5	150	2·9	130	3·4	155	5·7	190	4·5	205	4·5	195	2·7	210	4·0
26	250	2·5	245	3·5	245	4·0	245	4·6	245	4·7	240	5·0	240	5·0	230	6·1	235	6·5	230	5·6	220	5·9	200	5·6
27	290	1·5	290	3·0	270	3·4	295	3·2	260	3·0	250	4·0	250	4·0	255	4·7	260	6·0	250	5·9	250	5·5	255	5·8
28	235	2·5	240	3·0	245	3·0	250	3·4	250	3·5	250	4·0	255	5·1	260	5·2	265	5·3	285	5·7	280	6·0	280	6·5
29	255	3·2	250	2·8	245	2·2	230	2·4	235	2·2	230	3·2	250	3·0	250	3·0	265	3·3	255	3·7	250	3·8	250	3·5
30	230	5·6	225	4·4	215	5·5	210	5·0	210	5·1	215	5·2	215	5·1	220	5·0	225	5·8	260	5·0	275	4·0	270	4·7
31	230	2·5	230	2·3	235	1·6	230	2·4	225	2·4	225	1·6	220	1·3	220	1·8	240	2·6	235	2·5	235	3·6	220	2·7
Mean	—	2·6	—	2·6	—	2·6	—	2·8	—	2·9	—	3·2	—	3·7	—	4·2	—	4·4	—	4·4	—	4·7	—	4·9

518. Richmond (Kew Observatory): H_a = 5 metres + 23 metres.

Day	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	205	0·1	—	0·0	—	0·0	40	0·1	—	0·0	15	0·2	35	1·3	60	3·0	65	3·1	70	3·3	55	3·6	50	4·5
2	45	4·4	30	4·5	25	5·5	30	5·4	30	5·0	20	6·5	15	7·1	20	7·0	20	6·8	(30)	6·5	(20)	6·5	20	6·0
3	25	4·0	30	4·6	35	5·4	35	5·5	35	5·6	30	7·1	30	7·6	35	8·5	30	8·1	30	9·0	35	9·0	40	10·5
4	30	4·2	35	3·2	45	2·6	30	4·0	25	4·0	25	3·5	40	4·2	40	4·4	40	5·0	45	4·9	35	5·2	50	5·5
5	35	0·3	35	1·8	20	1·4	20	1·3	50	3·0	55	2·1	45	1·9	30	1·5	35	1·8	5	2·7	360	3·1	15	3·5
6	350	1·8	10	3·0	10	2·8	5	3·1	15	3·0	25	2·6	5	2·2	350	2·5	330	2·0	335	2·0	340	2·9	330	2·1
7	280	2·0	275	1·7	280	1·2	250	2·2	240	2·6	250	2·5	275	2·9	315	3·6	300	3·4	290	3·6	285	4·2	280	4·4
8	215	0·8	175	0·8	110	1·1	110	1·8	115	2·0	180	3·1	185	5·0	210	5·4	210	6·1	215	6·7	235	3·5	255	6·8
9	330	5·0	330	5·6	330	4·9	330	5·4	330	5·0	325	4·8	340	5·8	340	5·9	350	6·0	345	6·4	345	5·2	345	5·3
10	230	1·5	225	1·9	230	2·6	240	2·3	240	1·5	220	2·4	230	3·1	230	3·6	230	3·8	240	4·4	235	4·3	225	4·9
11	350	2·5	330	3·1	345	3·0	350	3·0	330	2·3	315	0·4	320	1·0	340	2·1	335	2·5	340	3·0	300	3·0	290	3·3
12	250	1·5	235	2·3	230	2·2	240	2·0	235	2·5	260	1·9	280	2·3	300	3·5	295	2·8	290	4·2	290	4·0	295	4·8
13	290	1·8	265	1·4	275	1·5	290	1·5	270	1·5	285	1·7	305	1·0	280	1·0	285	1·0	270	1·1	330	0·1	280	0·3
14	110	3·9	110	3·1	105	3·6	95	4·6	95	6·1	95	5·6	85	6·0	90	7·7	90	8·9	90	6·0	90	6·1	90	6·0
15	200	2·0	190	2·2	190	2·2	145	1·2	185	2·0	205	3·0	210	3·2	220	5·0	220	5·7	235	3·7	215	6·6	215	8·0
16	200	5·1	210	4·7	195	3·5	185	3·6	180	3·8	190	5·1	200	5·5	210	7·0	225	6·0	220	8·5	220	9·3	215	10·7
17	225	9·0	225	9·5	225	9·2	225	9·2	230	7·3	230	7·3	230	9·0	240	8·6	245	9·1	245	9·4	245	8·9	250	8·9
18	230	2·7	225	3·5	245	2·5	245	2·5	270	1·8	255	2·6	250	2·5	230	2·9	240	2·9	260	2·9	260	3·1	250	4·1
19	140	1·6	120	1·5	135	2·6	115	1·5	105	2·0	100	2·4	150	5·0	170	4·5	150	5·2	195	4·6	205	6·2	205	6·0
20	230	8·8	225	8·6	225	7·1	220	7·1	210	5·4	210	6·1	215	7·3	210	7·5	220	7·9	220	10·1	220	10·5	220	9·6
21	265	5·5	270	5·8	270	6·1	280	5·4	280	5·2	285	5·9	285	5·8	285	5·3	290	6·4	290	6·7	290	6·5	295	5·6
22	280	3·6	285	2·9	285	1·6	275	(0·2)	275	(0·3)	265	(0·2)	270	(0·3)	310	(0·2)	330	(0·2)	340	1·2	360	1·0	340	1·5
23	45	2·9	40	3·4	30	1·6	35	1·8	20	0·9	25	1·4	30	0·3	40	1·0	55	3·0	40	1·9	10	1·5	10	1·9
24	80	1·6	70	1·6	50	2·3	60	3·7	50	3·9	60	4·6	60	4·9	65	6·0	70	6·4	70	7·2	75	7·5	85	9·2
25	40	9·1	40	8·5	30	8·9	25	9·0	25	8·6	20	8·1	25	8·0	25	8·6	20	9·1	20	9·2	15	8·8	5	8·6
26	235	1·6	230	1·0	230	1·5	250	1·4	250	1·7	240	1·4	250	1·0	240	1·5	240	0·5	315	0·6	320	1·5	330	1·9
27	80	0·6	85	0·2	—	0·0	—	0·0	25	0·2	30	0·6	50	1·4	80	2·1	100	5·1	100	6·0	90	7·1	90	6·9
28	55	3·2	55	3·1	60	3·5	60	2·9	55	2·5	50	2·1	90	4·9	95	6·4	95	7·2	100	7·9	95	7·9	90	7·8
29	55	3·0	55	3·4	65	3·6	60	4·1	55	4·9	60	3·6	60	5·6	75	8·3	80	9·0	80	10·0	85	11·5	80	10·5
30	50	5·0	45	4·1	45	4·5	45	4·2	50	4·9	45	5·5	45	5·5	45	5·3	50	5·4	55	4·5	60	4·1	65	6·4
31	25	4·9	20	5·2	20	4·5	15	4·6	20	4·9	20	5·3	15	4·5	20	5·5	20	5·1	25	5·0	25	4·8	15	4·0
Mean ...	—	3·4	—	3·4	—	3·3	—	3·4	—	3·4	—	3·5	—	4·1	—	4·7	—	5·0	—	5·3	—	5·4	—	5·8
Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 5 metres + 23 metres.

July, 1931.

Day	13. °	13. m/s.	14. °	14. m/s.	15. °	15. m/s.	16. °	16. m/s.	17. °	17. m/s.	18. °	18. m/s.	19. °	19. m/s.	20. °	20. m/s.	21. °	21. m/s.	22. °	22. m/s.	23. °	23. m/s.	24. °	24. m/s.	Mean m/s.
1	280	1·1	250	2·0	280	2·5	265	2·4	230	3·3	270	2·7	255	2·1	245	2·9	230	3·0	220	2·5	220	2·3	225	2·8	**1·3**
2	230	6·0	225	6·9	240	5·6	230	4·9	220	5·3	220	5·2	210	5·0	210	5·2	225	5·6	235	4·5	250	3·5	265	3·2	4·7
3	210	5·5	225	5·1	230	5·7	240	5·1	240	4·4	215	4·9	210	4·9	220	4·6	220	5·1	230	3·9	220	4·1	210	4·5	3·6
4	210	6·9	210	8·1	215	7·5	205	6·9	205	7·1	205	6·3	210	5·6	230	5·0	230	5·4	230	4·0	225	4·0	220	3·2	5·4
5	215	5·3	225	5·0	215	5·0	200	4·8	200	3·7	195	3·5	200	3·1	215	3·4	200	2·4	215	2·3	230	1·2	235	1·7	3·5
6	255	3·3	230	4·0	210	5·4	210	5·5	210	5·0	205	4·9	205	4·2	200	3·8	200	3·0	200	2·9	195	2·3	205	1·0	3·1
7	220	2·2	280	1·7	230	3·8	220	7·0	230	6·0	235	5·0	260	4·4	290	3·2	310	1·6	260	0·5	250	1·6	255	2·4	2·3
8	260	5·6	270	5·5	280	6·4	280	6·0	270	5·7	270	6·3	270	4·7	260	5·2	255	5·1	245	5·5	250	4·5	245	4·5	4·2
9	265	4·5	230	7·0	225	6·1	220	5·5	245	4·8	225	4·5	225	4·9	220	4·9	225	6·5	225	5·0	205	2·8	205	2·6	4·9
10	210	6·0	220	5·5	215	6·7	230	7·8	225	7·9	225	7·5	230	6·7	230	4·9	230	4·1	230	3·5	230	3·6	230	2·9	5·2
11	255	4·3	240	4·0	245	4·5	225	4·6	225	4·8	225	4·6	220	4·3	200	4·3	195	3·2	160	1·0	120	0·9	165	0·1	3·7
12	185	7·3	190	6·2	210	7·6	215	8·0	220	7·8	220	8·0	220	8·5	220	6·5	225	6·5	220	6·5	225	5·6	225	5·2	5·3
13	230	6·2	225	7·4	225	8·1	225	8·2	245	5·0	235	5·5	230	5·9	225	4·8	200	4·0	210	4·9	205	4·5	200	3·2	5·3
14	170	7·1	175	6·5	165	5·1	165	6·1	140	3·0	105	3·5	115	4·0	95	3·7	90	4·1	75	5·0	55	6·1	75	4·2	4·7
15	305	5·3	305	5·0	300	3·2	290	4·5	300	4·1	295	3·5	305	3·0	295	2·5	285	2·1	280	2·2	270	1·6	265	2·6	3·6
16	270	4·5	275	5·8	280	6·1	270	6·0	290	5·2	285	3·8	265	2·5	270	3·6	245	2·9	230	2·7	230	3·2	230	3·1	3·8
17	260	6·0	250	4·5	230	4·3	200	4·1	210	5·5	220	7·0	220	7·0	220	8·0	220	8·0	225	8·4	225	7·6	230	6·0	**5·6**
18	245	5·3	250	7·0	270	5·8	260	5·1	240	4·8	250	4·7	240	4·4	235	3·8	235	4·0	240	3·5	230	3·2	225	3·1	5·5
19	285	4·1	300	4·5	320	6·2	300	4·5	295	3·5	295	3·2	280	2·6	245	2·9	245	2·5	260	2·7	265	3·2	270	2·4	3·1
20	335	4·5	5	4·0	25	2·9	350	3·8	320	3·0	5	2·1	325	1·0	295	0·3	290	0·6	305	1·6	295	1·3	305	0·5	2·7
21	290	3·5	305	3·5	290	3·5	290	3·6	275	4·0	260	2·9	240	1·8	230	2·0	230	2·2	230	2·5	230	2·7	230	3·0	2·6
22	230	6·4	220	6·6	215	7·4	220	7·6	220	7·0	215	6·7	220	5·4	210	4·0	210	3·0	210	3·5	215	3·8	215	4·3	4·9
23	210	5·0	225	4·8	230	5·3	230	5·7	205	4·9	210	5·5	210	3·6	235	1·8	200	0·9	210	1·1	205	1·0	200	0·2	3·3
24	215	6·8	220	7·1	230	6·4	220	6·3	210	6·9	205	6·1	205	4·8	195	2·5	195	2·0	155	2·5	170	1·7	155	0·8	3·0
25	210	5·2	220	5·4	225	6·8	230	6·5	215	6·0	230	4·9	255	4·0	245	4·2	260	4·3	250	3·8	245	4·2	255	4·0	3·8
26	185	4·0	150	2·5	130	2·0	140	1·5	205	4·4	215	5·2	220	5·8	225	6·7	230	5·5	240	4·4	290	1·9	310	1·1	4·4
27	245	6·1	270	4·7	300	3·4	300	3·4	280	4·7	250	2·7	215	3·2	220	3·9	225	3·6	230	3·5	235	3·0	230	2·8	3·9
28	280	6·4	275	6·3	285	6·1	285	5·7	270	4·6	270	4·9	265	3·8	255	2·1	245	2·0	270	2·7	240	2·5	255	2·5	4·3
29	250	4·0	220	4·6	220	6·5	225	6·5	230	6·2	225	7·0	225	6·0	230	5·5	230	5·5	220	4·9	220	4·6	230	4·9	4·2
30	270	4·3	280	3·5	285	3·9	300	2·8	265	2·1	265	3·4	260	1·5	245	2·6	230	2·5	240	2·0	235	2·0	235	2·0	3·9
31	230	2·6	230	2·5	210	4·5	215	3·7	210	3·5	230	2·5	220	1·8	210	1·7	205	0·8	195	0·8	200	0·2	195	0·1	2·2
—	—	5·0	—	5·1	—	**5·3**	—	5·3	—	5·0	—	4·8	—	4·2	—	3·9	—	3·6	—	3·4	—	3·1	—	2·7	3·9

August, 1931.

Day	13. °	13. m/s.	14. °	14. m/s.	15. °	15. m/s.	16. °	16. m/s.	17. °	17. m/s.	18. °	18. m/s.	19. °	19. m/s.	20. °	20. m/s.	21. °	21. m/s.	22. °	22. m/s.	23. °	23. m/s.	24. °	24. m/s.	Mean m/s.
1	55	4·9	65	4·6	60	5·0	50	4·8	40	4·2	60	4·8	60	5·4	50	5·1	40	4·2	45	4·2	30	3·9	25	3·8	3·0
2	15	4·1	20	4·5	30	4·9	35	5·2	30	6·8	20	5·8	25	5·5	25	5·6	35	5·8	35	5·1	30	4·9	35	4·5	5·6
3	35	10·5	40	11·0	30	10·7	25	10·2	20	10·0	30	9·0	25	8·4	25	8·5	25	8·5	25	8·1	30	8·2	25	5·4	**8·0**
4	70	5·5	65	6·5	75	5·1	85	4·0	95	3·5	105	3·3	95	2·0	125	1·6	105	3·0	50	2·5	70	3·7	100	1·7	4·0
5	15	3·0	25	2·0	300	0·8	315	1·0	305	2·0	325	2·6	40	5·0	10	2·7	330	1·6	290	(0·5)	310	1·0	360	1·6	2·0
6	345	1·2	335	1·6	335	1·7	320	2·5	290	2·5	320	2·4	305	1·5	285	2·0	285	1·1	255	1·0	275	2·5	270	2·4	2·2
7	300	4·9	295	4·6	300	4·6	285	3·9	300	3·6	290	3·3	280	2·4	270	1·7	255	1·5	240	1·5	235	1·5	225	2·1	2·9
8	260	6·6	270	6·2	260	7·3	265	6·7	305	6·1	325	2·9	340	4·2	335	3·8	305	2·9	295	3·0	305	3·5	330	5·1	4·2
9	340	4·4	335	4·6	325	3·8	315	4·1	360	2·6	10	1·8	315	1·5	280	0·6	265	1·0	280	1·1	260	1·1	245	1·1	4·0
10	240	4·5	250	5·9	240	5·5	235	5·2	240	4·4	290	3·5	270	2·4	260	2·9	280	2·5	355	2·8	10	5·6	360	2·9	3·5
11	270	4·0	270	3·8	275	4·9	270	4·7	280	3·9	300	2·7	310	2·1	305	0·9	280	0·6	245	1·2	250	1·9	245	1·5	2·6
12	290	5·0	300	5·0	305	5·2	295	4·1	290	4·2	270	3·8	265	3·2	310	3·0	295	0·2	295	1·2	275	1·4	275	1·5	3·0
13	210	0·1	115	2·5	110	4·1	105	4·5	90	5·6	85	5·2	90	5·1	85	5·3	100	4·1	85	4·2	95	3·6	90	4·7	2·6
14	110	4·7	100	5·1	150	2·5	225	2·2	230	3·0	200	2·4	255	2·3	185	1·8	210	3·0	220	3·6	225	2·5	200	2·3	4·3
15	210	8·3	215	8·1	215	8·6	215	8·0	220	7·2	220	7·3	205	4·6	190	4·0	170	3·8	165	3·7	160	4·1	170	5·1	4·8
16	225	10·1	220	9·5	225	9·5	220	8·7	220	9·6	220	9·3	220	9·1	215	8·1	220	8·0	220	7·2	225	8·3	220	9·0	7·4
17	250	9·3	255	8·6	260	8·5	260	8·3	265	7·6	260	6·5	255	4·8	250	3·5	235	3·4	225	4·3	225	4·2	225	3·5	7·5
18	260	3·8	265	3·9	230	3·3	235	2·8	250	3·0	220	3·3	210	4·0	200	2·7	200	2·4	170	1·8	150	1·3	175	2·5	2·9
19	220	7·6	210	8·1	220	9·3	220	8·1	225	10·0	220	9·1	220	8·9	220	9·1	220	8·3	230	8·3	230	8·5	230	7·9	6·0
20	215	10·7	215	11·6	215	10·9	210	9·4	225	8·0	235	6·3	240	6·1	255	4·8	265	4·9	260	4·5	255	4·3	255	4·1	7·6
21	290	6·0	295	6·1	290	5·8	290	5·2	285	5·5	280	5·2	270	5·0	270	4·1	275	2·5	245	3·1	255	2·9	265	3·5	5·2
22	10	2·9	15	3·4	20	4·5	30	3·9	50	2·7	55	3·1	60	4·3	60	3·5	60	3·1	50	2·9	50	3·1	40	3·9	2·3
23	360	3·5	360	3·5	15	3·6	35	3·2	40	1·0	30	0·4	45	0·6	50	0·4	85	0·1	80	1·1	85	1·6	95	1·4	1·8
24	85	8·9	75	7·9	70	9·3	65	9·2	60	8·7	55	8·1	50	8·6	45	8·6	45	9·0	45	8·6	45	8·7	35	9·2	6·7
25	5	8·0	360	6·9	360	7·1	360	7·7	355	6·0	350	3·2	345	2·9	330	2·5	340	1·5	335	1·0	290	0·8	250	1·5	6·6
26	360	2·1	320	1·6	340	2·1	360	2·6	20	2·1	110	0·9	180	4·6	200	3·0	155	1·0	100	2·0	95	1·3	80	1·0	**1·7**
27	90	7·9	85	8·9	95	8·5	95	9·0	95	8·4	85	8·1	90	6·5	90	6·0	80	5·0	70	4·1	55	2·4	50	3·6	4·5
28	90	8·6	85	9·0	90	8·6	85	9·0	85	10·0	80	8·5	75	9·4	80	9·0	80	7·1	80	6·1	75	4·9	75	4·2	6·4
29	90	9·1	90	8·9	90	9·6	85	9·3	85	9·0	75	7·9	65	7·1	65	7·1	60	5·0	60	5·5	50	5·0	55	5·1	6·9
30	60	6·5	55	6·3	50	7·0	55	6·5	55	6·1	60	6·1	65	5·1	80	4·1	50	3·9	40	3·0	30	4·2	20	4·7	5·1
31	360	4·1	355	2·9	360	4·4	5	3·5	15	3·5	10	2·3	355	1·4	10	1·5	345	1·2	335	1·0	350	(0·6)	350	(0·6)	3·6
—	—	5·8	—	5·9	—	**6·0**	—	5·7	—	5·5	—	4·8	—	4·6	—	4·1	—	3·6	—	3·5	—	3·6	—	3·6	4·5
Day	13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean

Direction expressed in degrees from North (E=90°, S=180°, W=270°, N=360°): Speed in metres per second.

519. Richmond (Kew Observatory): H_a (height of vane of anemograph above M.S.L.) = Height of ground above

Dines Anemograph from Jan., 1926.

Hour G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	340	(0·5)	350	(0·4)	325	(0·3)	335	(0·2)	—	(0·0)	270	(0·1)	205	(0·4)	215	(0·5)	195	(0·2)	215	1·4	220	2·3	220	4·9
2	205	5·2	210	4·5	215	5·3	225	5·8	230	3·5	225	2·6	215	3·0	195	3·6	170	1·4	120	2·6	140	4·0	180	6·0
3	175	1·0	185	1·1	180	1·0	170	2·5	140	2·1	150	1·4	145	1·3	175	4·8	180	4·2	200	5·0	210	7·0	210	5·4
4	115	1·5	205	2·5	240	2·3	180	2·5	170	2·8	170	3·1	175	3·8	185	4·5	190	4·7	205	4·9	215	6·8	210	6·1
5	345	2·9	330	3·6	330	4·1	330	5·3	315	4·6	305	4·9	305	4·6	290	4·7	300	4·2	325	5·1	320	5·1	315	5·0
6	285	2·0	290	2·8	290	3·0	270	2·6	280	2·0	255	2·0	280	2·0	300	3·3	315	3·9	320	4·5	325	4·6	325	4·7
7	235	0·8	230	1·0	230	1·1	235	1·4	230	1·2	240	0·6	235	1·0	255	1·0	300	1·1	335	2·0	350	1·5	340	4·0
8	270	0·5	245	0·5	245	0·5	225	0·9	240	0·7	220	1·5	245	1·1	220	0·1	200	0·6	200	0·1	280	0·6	350	1·5
9	265	0·8	275	1·5	260	1·0	250	0·7	245	1·1	240	1·2	230	1·5	240	0·9	300	1·0	345	2·9	330	3·0	355	3·1
10	80	2·5	70	2·0	60	2·0	40	3·1	45	3·5	45	2·3	45	3·5	50	2·8	40	2·7	65	2·1	60	3·2	60	4·1
11	10	2·1	355	1·2	360	0·6	350	1·8	5	2·1	5	1·6	350	2·5	360	2·9	360	3·4	20	4·0	25	3·8	30	3·0
12	225	2·4	225	2·3	215	2·8	225	3·2	230	3·0	225	3·1	240	2·5	245	2·9	250	3·0	240	2·5	225	2·9	195	2·8
13	25	4·4	15	3·6	10	3·3	360	2·9	330	1·0	345	1·1	335	1·8	350	2·1	355	4·0	360	4·0	350	3·3	340	2·9
14	235	1·3	245	1·3	255	1·0	255	1·0	235	1·0	210	0·4	235	0·7	220	0·6	240	1·0	230	1·3	220	1·6	245	2·0
15	—	0·0	170	0·1	260	0·5	200	0·2	250	0·4	80	0·2	290	0·1	210	1·0	195	1·4	220	2·2	245	2·5	245	2·4
16	235	0·3	265	0·2	220	0·5	245	0·5	275	0·5	250	0·9	200	0·1	230	0·5	250	0·4	215	1·6	220	1·3	220	1·3
17	210	1·1	210	1·4	210	1·4	225	1·9	230	1·2	230	2·0	225	1·9	220	2·0	200	2·2	210	3·6	220	3·4	215	3·0
18	240	0·2	250	0·5	215	0·2	235	0·2	240	0·5	260	0·2	320	0·2	320	1·0	320	1·5	325	1·2	320	1·2	320	1·0
19	270	1·1	305	0·8	265	0·5	245	0·8	220	0·8	255	0·7	220	0·6	240	0·5	325	0·5	350	1·6	340	1·5	350	2·8
20	40	5·3	40	5·4	30	4·0	35	4·3	35	5·1	35	4·6	30	4·5	40	5·6	40	6·5	30	5·7	25	4·6	30	4·1
21	270	1·0	255	0·5	320	1·0	340	3·1	340	2·5	340	2·0	355	3·5	360	5·7	10	6·8	10	6·8	5	7·0	10	6·6
22	360	3·6	355	3·5	345	3·3	350	3·1	355	3·5	360	3·6	360	4·0	10	5·0	15	5·8	20	5·9	20	6·2	15	5·3
23	280	2·1	270	2·4	300	2·1	360	6·1	5	6·0	5	6·5	10	5·9	5	5·9	15	5·6	10	4·4	30	3·8	20	6·3
24	45	1·2	10	1·7	5	2·0	360	2·0	360	1·5	360	1·6	320	0·4	30	1·8	20	3·5	10	4·0	5	3·2	350	3·1
25	340	1·8	345	1·6	350	2·7	360	3·0	5	3·6	10	4·6	5	4·8	5	4·1	5	4·0	5	3·9	360	4·0	360	4·0
26	360	2·5	360	2·0	10	1·2	335	2·0	340	1·8	360	1·6	360	2·7	5	3·9	10	4·5	45	5·0	50	5·3	45	5·1
27	15	1·6	20	2·7	15	2·5	5	1·5	5	2·8	360	1·2	160	0·1	20	0·2	30	2·1	35	2·2	35	2·0	360	2·9
28	300	1·5	295	1·0	265	1·0	250	1·0	245	1·2	230	1·6	250	1·1	250	1·0	315	2·1	335	2·4	340	3·3	335	3·0
29	220	1·1	245	0·3	220	0·2	210	0·5	210	0·2	235	0·5	245	0·8	230	0·5	225	0·2	180	0·1	140	0·1	130	0·8
30	180	2·8	170	2·9	160	2·4	165	3·0	165	4·1	175	4·0	170	3·7	175	4·7	175	4·9	170	5·2	175	6·5	180	6·1
Mean ...	—	1·8	—	1·8	—	1·8	—	2·2	—	2·1	—	2·1	—	2·1	—	2·6	—	2·9	—	3·3	—	3·5	—	3·8

520. Richmond (Kew Observatory): H_a = 5 metres + 23 metres.

Day	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	180	0·4	250	0·1	310	0·1	—	0·0	—	0·0	—	0·0	180	0·9	220	1·0	230	1·5	235	2·9	250	3·1	245	4·1
2	225	6·0	235	5·9	230	5·0	215	5·5	220	5·6	225	6·6	230	6·8	230	6·4	230	6·2	230	6·0	225	6·5	235	6·1
3	230	3·1	235	1·8	230	3·4	230	3·0	230	3·0	230	2·0	245	2·2	260	3·0	280	3·8	300	3·1	325	3·7	310	4·0
4	195	1·0	210	1·6	220	1·2	220	2·4	210	2·5	215	2·9	205	2·5	220	4·5	220	5·0	215	4·6	215	4·7	220	5·5
5	230	3·8	230	3·5	235	3·5	235	3·0	230	3·0	230	2·6	225	3·5	225	3·3	235	5·3	230	5·1	235	4·1	225	4·1
6	80	1·2	90	1·3	100	1·0	105	0·8	110	1·0	115	0·5	35	0·6	220	0·1	210	0·5	200	4·5	190	4·2	220	5·0
7	210	3·5	230	3·0	240	3·0	240	3·7	285	4·1	265	3·2	275	3·5	270	4·5	265	5·1	270	5·8	265	6·8	265	7·1
8	235	4·1	235	3·4	240	3·5	235	3·5	235	4·1	235	3·9	230	4·2	230	4·5	215	4·1	245	5·6	255	6·1	255	5·0
9	225	4·7	220	3·9	210	3·4	205	3·0	190	2·9	180	3·4	185	2·7	200	3·2	210	4·2	215	7·3	215	7·5	230	7·2
10	220	3·5	225	2·0	225	2·0	210	1·5	215	1·0	220	1·2	215	1·4	230	1·4	235	2·4	(275)	1·6	(290)	1·8	(280)	1·1
11	245	1·0	290	0·9	340	0·5	245	1·0	245	1·0	250	0·8	205	0·5	210	1·0	245	1·0	270	0·5	285	0·7	285	0·8
12	340	0·3	160	1·0	100	0·7	335	0·5	315	0·2	270	0·1	265	0·2	150	1·1	180	0·8	205	0·1	210	0·4	225	0·8
13	250	2·1	235	1·2	190	0·6	185	0·6	175	0·8	265	0·3	230	0·9	245	1·0	230	1·1	280	1·5	300	0·9	330	1·6
14	295	0·2	300	0·3	225	1·5	230	1·1	240	0·8	245	1·0	290	0·5	320	1·3	345	2·5	15	4·1	20	5·2	15	4·6
15	350	1·1	325	1·1	340	1·0	300	1·1	275	0·7	230	0·8	270	0·4	230	0·2	340	0·5	35	2·5	70	2·5	80	2·5
16	70	2·3	45	3·1	40	2·6	40	3·0	50	3·4	40	3·8	40	4·5	40	4·3	55	4·3	55	4·2	75	4·0	85	5·4
17	60	4·2	50	3·9	40	3·4	35	2·9	50	3·9	50	4·6	50	3·7	45	4·4	45	4·2	50	5·0	60	4·9	60	4·6
18	40	4·1	40	4·4	40	4·0	40	4·8	45	5·2	35	4·2	40	4·0	35	5·3	50	3·9	40	3·2	40	3·2	50	2·4
19	5	1·6	10	1·8	20	0·5	10	0·5	110	0·1	—	0·0	—	0·0	—	0·0	—	0·0	210	0·2	—	0·0	305	1·4
20	230	2·1	245	2·3	255	2·5	255	2·6	270	3·4	290	3·1	300	3·3	275	2·3	280	2·7	275	4·1	305	4·5	320	5·0
21	320	2·7	280	1·5	5	2·2	360	1·5	260	1·6	250	1·8	275	0·8	245	0·8	285	1·1	350	2·0	360	2·2	15	3·9
22	360	1·0	10	1·0	290	0·5	240	0·5	280	0·1	240	0·5	210	0·4	220	0·5	—	0·0	260	0·1	—	0·0	60	1·2
23	15	0·5	10	1·0	20	1·0	15	1·2	30	1·5	35	1·5	50	2·2	50	3·0	45	3·0	45	2·7	60	2·8	60	3·5
24	5	4·6	15	4·4	5	4·4	355	4·5	350	3·7	345	3·9	345	2·9	320	1·5	320	4·0	355	5·1	345	5·9	345	5·9
25	10	3·0	360	3·2	360	2·5	15	2·0	20	2·2	5	2·0	5	3·0	5	4·1	10	4·5	10	5·8	15	6·5	15	7·5
26	360	2·6	360	2·5	355	2·9	345	1·4	360	2·1	360	3·2	340	1·0	360	0·9	350	2·3	5	3·5	25	4·3	25	5·2
27	220	0·8	225	0·7	240	0·3	230	0·4	270	0·4	245	0·4	240	0·5	230	0·3	220	0·6	230	1·0	265	0·5	265	0·4
28	220	0·8	205	0·7	260	0·3	215	1·0	235	0·5	230	0·9	220	2·0	220	1·5	220	2·5	235	3·1	235	3·6	255	4·0
29	260	1·9	275	3·0	270	3·5	275	1·9	285	2·9	290	2·6	265	1·4	245	1·6	280	1·6	265	0·6	305	3·0	270	3·4
30	250	6·1	265	8·1	270	8·1	270	8·6	285	7·4	320	6·0	350	5·9	345	5·4	350	6·1	355	6·3	360	6·4	350	5·6
31	225	1·3	350	0·4	225	0·7	250	0·1	300	0·1	260	0·1	320	0·1	—	0·0	—	0·0	250	0·2	245	1·1	225	3·8
M e	—	2·4	—	2·4	—	2·3	—	2·2	—	2·2	—	2·2	—	2·1	—	2·3	—	2·7	—	3·3	—	3·6	—	4·0
Hour G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	

Averages for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 5 metres + 23 metres.

September, 1931.

Day	13. °	13. m/s.	14. °	14. m/s.	15. °	15. m/s.	16. °	16. m/s.	17. °	17. m/s.	18. °	18. m/s.	19. °	19. m/s.	20. °	20. m/s.	21. °	21. m/s.	22. °	22. m/s.	23. °	23. m/s.	24. °	24. m/s.	Mean m/s.
1	225	5·4	220	5·2	210	5·1	215	5·0	210	4·5	205	4·0	190	3·8	190	4·0	180	4·6	180	4·1	190	4·0	200	4·6	2·6
2	180	5·5	200	6·5	235	6·7	240	5·5	235	6·6	225	5·3	215	4·6	240	2·9	250	1·2	215	1·5	205	1·5	225	0·9	4·1
3	210	5·0	215	7·1	220	7·5	215	5·9	220	5·0	205	3·7	185	3·3	195	3·2	160	1·5	160	1·9	165	1·7	80	0·5	3·5
4	220	6·5	205	5·8	205	5·2	195	4·4	185	3·8	180	2·5	120	1·3	115	1·3	100	1·2	70	0·5	360	1·0	350	2·0	3·3
5	320	5·2	325	6·2	325	6·3	330	6·8	335	7·2	325	5·5	325	4·9	325	4·6	300	3·6	290	3·4	295	2·5	295	2·0	**4·7**
6	330	4·2	325	3·5	340	3·8	330	3·0	275	3·2	300	2·0	310	0·8	250	0·7	255	0·4	240	0·8	230	0·7	235	0·9	2·6
7	345	4·1	345	3·0	35	5·4	25	4·6	360	3·5	15	2·2	325	0·8	360	1·6	355	1·6	5	1·5	5	1·9	5	1·2	2·0
8	10	1·0	305	0·8	355	2·0	325	1·8	320	1·5	325	1·5	345	2·4	335	0·9	320	0·1	230	0·6	240	1·0	255	0·9	1·0
9	345	2·5	350	2·5	340	2·3	355	1·7	330	1·5	335	2·1	360	2·1	65	2·6	95	2·2	90	2·0	85	2·7	100	2·5	1·9
10	60	3·5	60	3·5	30	3·1	45	3·4	30	3·6	45	3·9	45	4·0	25	2·0	20	2·7	30	1·8	10	2·8	15	2·6	2·9
11	5	2·3	350	2·1	330	1·2	310	2·3	315	0·7	285	0·5	250	0·7	225	1·3	205	1·3	210	1·6	215	2·0	215	1·8	2·0
12	190	3·5	165	2·9	100	2·3	60	5·0	60	6·3	50	6·1	40	5·4	30	5·1	30	5·8	20	5·4	20	4·5	15	3·2	3·7
13	320	3·0	320	3·1	310	3·2	335	3·5	330	1·9	310	2·0	310	1·7	320	1·8	320	2·1	325	2·2	305	0·9	220	1·5	2·6
14	245	3·0	250	3·1	245	3·0	245	3·5	250	3·0	230	2·1	250	1·1	255	0·9	245	1·5	255	0·8	220	0·5	150	0·2	1·5
15	280	1·5	260	1·5	240	2·0	270	1·3	230	1·3	250	1·1	215	0·5	235	1·2	235	1·1	220	1·0	210	0·8	210	1·0	1·0
16	360	1·7	250	2·3	245	1·9	225	1·9	235	2·1	215	2·3	220	2·4	220	2·3	220	1·4	235	1·2	220	1·5	210	1·0	1·3
17	240	3·0	250	2·9	230	2·5	225	2·1	225	1·5	225	1·1	195	0·7	200	0·8	195	0·1	215	0·5	200	0·4	200	0·5	1·7
18	340	0·8	345	0·2	—	0·0	170	0·5	210	0·1	190	0·3	280	0·2	350	1·6	325	0·6	320	0·5	360	0·5	220	1·2	**0·6**
19	30	3·3	10	2·1	5	4·5	5	4·4	15	3·3	20	2·0	15	1·9	20	3·4	20	4·4	25	5·4	20	5·4	35	6·4	2·3
20	25	3·5	20	2·8	360	4·0	5	4·1	15	3·0	315	1·0	270	1·0	285	1·1	330	2·4	355	3·0	355	1·1	320	1·5	3·8
21	5	6·5	15	6·4	10	6·5	5	6·1	15	6·5	10	6·1	10	5·8	5	4·4	5	5·1	360	3·5	360	4·3	355	3·3	4·6
22	15	6·5	10	5·5	360	6·9	360	6·4	350	5·5	360	4·5	360	2·7	330	1·6	320	1·0	300	1·4	305	1·6	320	3·2	4·2
23	20	4·8	10	5·0	15	5·5	15	5·0	10	4·5	15	4·0	15	3·4	10	3·7	10	3·5	15	3·5	5	2·2	15	2·0	4·4
24	360	3·6	5	2·8	360	3·7	360	2·5	355	2·0	350	1·4	345	1·1	355	1·5	355	1·9	360	3·0	360	2·9	360	2·4	2·3
25	360	3·5	360	4·0	360	3·8	360	3·0	360	3·6	360	3·0	5	2·4	5	2·1	5	2·7	360	2·9	360	3·0	360	2·8	3·3
26	35	4·8	35	3·3	30	4·1	25	3·5	20	4·3	20	3·8	30	3·6	25	3·5	25	3·6	25	2·5	20	1·0	15	1·0	3·2
27	345	3·2	325	2·0	325	2·4	340	2·4	315	1·6	315	1·3	305	1·1	300	1·6	305	1·6	305	1·6	310	1·7	310	1·7	1·8
28	330	3·2	330	2·5	340	2·3	345	1·3	5	1·1	345	0·1	280	0·2	270	0·2	245	0·3	250	0·1	240	1·0	245	0·5	1·4
29	205	1·8	180	1·5	175	4·0	175	4·2	175	3·7	180	3·1	170	2·3	185	1·5	205	0·6	185	1·0	175	2·0	165	3·0	1·4
30	180	5·5	185	5·1	185	4·6	180	4·1	185	1·6	200	1·3	180	1·0	180	0·5	180	0·5	195	0·1	205	0·4	180	0·5	3·2
—	—	3·7	—	3·5	—	**3·9**	—	3·6	—	3·3	—	2·7	—	2·2	—	2·1	—	2·0	—	2·0	—	1·9	—	1·9	2·6

October, 1931.

Day	13. °	13. m/s.	14. °	14. m/s.	15. °	15. m/s.	16. °	16. m/s.	17. °	17. m/s.	18. °	18. m/s.	19. °	19. m/s.	20. °	20. m/s.	21. °	21. m/s.	22. °	22. m/s.	23. °	23. m/s.	24. °	24. m/s.	Mean m/s.
1	245	4·0	245	3·6	245	4·1	245	3·6	235	2·9	225	3·1	215	3·5	225	4·6	220	4·1	220	4·0	215	4·8	225	5·9	2·5
2	235	5·7	230	5·8	225	7·0	220	6·9	225	6·7	240	4·6	250	4·0	260	3·5	245	2·9	250	3·5	255	2·1	235	2·1	**5·4**
3	320	3·9	295	3·9	310	2·9	280	3·0	280	1·0	235	1·0	230	1·3	200	1·5	205	1·6	220	1·5	200	1·7	215	1·1	2·5
4	215	5·1	220	5·0	225	5·3	220	4·2	220	4·5	225	4·6	220	4·3	220	3·9	225	4·0	220	4·0	230	3·6	230	3·2	3·7
5	230	3·6	220	3·5	210	4·0	200	3·0	175	2·3	155	2·0	170	3·2	170	2·7	170	2·4	95	0·7	80	0·8	90	1·0	3·1
6	235	5·9	235	7·1	225	5·7	220	4·6	210	5·0	205	4·2	210	5·5	210	5·3	205	4·9	200	4·1	210	3·8	210	3·0	3·3
7	250	6·6	240	6·5	255	7·4	255	5·4	245	5·3	240	5·1	235	5·7	235	5·8	250	5·0	245	5·5	250	4·8	245	4·3	5·0
8	250	5·0	255	6·5	250	6·6	250	4·7	240	3·9	230	3·5	225	4·2	220	4·4	215	3·6	215	4·1	235	3·4	220	4·3	4·4
9	215	6·8	210	6·2	220	5·6	220	5·4	210	4·8	210	3·6	200	3·5	210	2·8	210	3·1	220	3·0	230	1·7	210	3·0	4·3
10	295	1·0	320	1·4	345	0·8	60	0·3	260	0·3	290	0·1	290	0·2	280	0·3	280	0·2	90	0·1	310	0·3	240	0·5	1·2
11	285	1·3	270	1·5	275	1·0	305	0·5	350	0·1	—	0·0	—	0·0	360	0·2	—	0·0	—	0·0	5	0·2	350	0·2	**0·6**
12	220	1·9	230	1·5	190	2·5	180	2·9	170	1·8	185	0·2	—	0·0	200	1·6	225	1·6	260	1·4	245	1·1	240	1·5	1·0
13	360	4·4	10	5·4	5	5·5	10	4·9	20	4·5	30	2·1	360	2·0	5	1·2	335	1·1	315	0·6	315	1·0	320	0·9	1·9
14	20	5·6	20	5·9	25	5·3	25	4·5	25	4·2	50	4·0	40	3·5	25	2·5	30	2·2	20	2·2	350	2·1	5	2·1	2·8
15	60	2·7	70	2·5	55	2·9	60	2·5	70	2·0	80	2·2	70	3·5	60	4·4	75	3·6	80	3·5	80	3·1	95	3·4	2·1
16	85	5·8	85	6·3	85	6·5	95	6·2	75	5·9	90	5·8	85	5·3	85	7·0	80	6·9	75	5·7	65	4·1	65	4·5	4·8
17	60	5·0	60	5·0	60	4·7	60	5·5	60	5·5	55	5·6	65	6·4	60	5·9	60	6·5	60	5·1	50	5·5	50	4·9	4·8
18	45	1·6	40	2·9	55	4·1	50	2·8	30	1·6	70	3·6	55	3·0	65	3·1	60	1·7	20	1·9	15	1·9	5	0·9	3·3
19	310	1·4	335	2·0	305	2·1	300	2·4	300	0·9	300	1·3	300	0·1	290	0·5	295	1·5	275	1·0	245	1·2	245	1·2	0·9
20	10	6·0	10	5·5	5	6·1	15	5·5	15	3·7	325	1·7	280	1·0	320	2·0	350	3·9	295	1·9	295	1·0	305	2·1	3·2
21	20	4·0	20	4·3	20	3·8	20	3·0	10	1·7	25	2·9	35	2·2	40	2·5	40	3·5	20	1·3	5	2·0	5	0·6	2·3
22	120	1·8	120	2·4	105	2·8	115	2·5	120	2·4	90	2·7	100	2·0	110	1·5	105	1·4	60	1·0	20	0·5	10	0·6	1·1
23	70	3·8	75	4·0	80	4·6	90	4·7	80	5·0	60	3·5	25	3·6	25	3·1	20	3·4	20	3·6	5	3·6	15	4·5	2·9
24	340	5·1	345	6·0	350	5·6	360	6·6	355	5·3	5	5·6	360	5·4	355	4·8	355	4·0	360	3·8	10	3·3	5	3·2	4·6
25	20	8·4	25	7·6	25	7·3	25	6·5	20	6·0	15	4·5	5	3·7	5	4·5	10	4·6	10	3·2	15	3·7	360	3·7	4·6
26	25	5·5	25	4·5	35	3·6	15	3·0	5	2·6	40	3·0	10	1·9	10	2·0	5	1·9	360	1·1	355	0·5	350	0·2	2·6
27	310	0·9	340	2·1	340	2·4	335	2·5	340	1·0	70	0·5	200	0·5	225	1·1	220	0·6	210	0·8	235	0·6	240	0·5	0·8
28	295	3·6	295	3·2	310	5·3	305	4·5	305	3·1	305	2·8	305	2·5	300	2·1	275	1·3	255	1·4	250	2·0	240	1·9	2·2
29	270	2·6	275	3·0	270	2·6	250	2·1	225	3·6	210	2·9	200	3·2	230	5·0	240	5·2	245	5·8	245	5·6	240	5·9	3·0
30	355	4·6	340	4·5	345	3·6	345	2·9	5	2·4	345	2·0	325	0·3	330	0·2	345	0·2	180	0·5	290	0·2	240	0·5	4·4
31	235	4·8	245	3·9	240	3·8	240	3·0	225	2·7	210	3·7	210	2·2	210	2·0	205	2·2	220	1·5	245	0·9	230	1·4	1·6
—	—	4·1	—	4·3	—	**4·4**	—	3·9	—	3·3	—	3·0	—	2·8	—	3·0	—	2·9	—	2·5	—	2·3	—	2·4	2·9
Day	13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean

Direction expressed in degrees from North (E=90°, S=180°, W=270°, N=360°). Speed in metres per second.

521. Richmond (Kew Observatory) : H_a (height of vane of anemograph above M.S.L.) = Height of ground above

Dines Anemograph from Jan., 1926.

Hour. G.M.T.	1.		2.		3.		4.		5.		6.		7.		8.		9.		10.		11.		Noon.	
Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	230	1·3	200	1·0	200	1·1	290	0·5	325	0·1	240	0·4	195	1·3	200	1·1	185	2·6	190	4·6	185	5·1	190	5·4
2	80	1·1	120	0·4	105	1·4	105	1·4	115	1·9	75	1·5	70	1·0	85	0·8	175	1·8	195	4·8	185	5·9	195	5·9
3	180	4·3	195	4·6	200	5·3	200	7·6	200	8·6	200	8·5	200	8·5	210	11·5	210	11·3	205	11·0	210	10·6	205	10·7
4	210	13·6	205	13·3	205	13·3	205	12·6	205	12·9	200	11·0	200	11·6	200	12·7	200	12·6	205	11·6	210	12·5	220	10·6
5	190	3·4	190	3·5	185	4·0	190	2·3	185	2·0	175	3·0	200	2·2	180	2·3	195	1·8	205	4·3	195	3·6	190	3·1
6	155	3·4	140	3·0	135	2·5	120	1·6	130	3·0	160	2·1	160	2·7	140	5·0	145	4·5	155	5·1	155	5·6	145	5·8
7	45	1·2	55	2·2	345	2·6	300	3·2	270	3·1	275	2·6	260	2·2	225	2·3	225	2·8	215	3·2	225	4·9	235	5·0
8	145	4·9	140	5·3	130	5·9	130	5·4	125	4·9	120	4·0	115	3·5	115	4·1	105	5·2	105	4·5	100	4·8	100	4·9
9	65	0·1	100	0·5	120	1·0	140	0·8	170	1·4	165	1·6	175	2·3	170	2·8	175	4·5	180	5·3	190	6·6	190	8·0
10	210	5·0	215	5·1	205	3·7	210	4·7	210	5·5	200	4·7	185	4·8	190	5·1	195	5·5	195	6·0	195	6·1	190	6·5
11	210	8·0	220	10·2	220	9·9	220	8·0	215	7·3	225	9·0	225	9·1	225	8·3	220	9·0	225	8·4	230	9·2	230	8·1
12	235	2·5	230	3·1	230	3·0	235	2·0	230	3·2	235	3·5	240	3·7	245	3·6	240	3·4	255	4·8	265	5·5	265	6·0
13	230	2·2	240	2·4	245	2·0	235	1·1	225	1·5	210	2·6	210	2·1	210	2·0	230	2·0	225	2·1	245	1·0	270	0·7
14	170	1·9	170	3·0	175	2·5	155	1·0	145	2·1	140	2·8	140	4·1	120	3·3	135	3·5	140	3·8	155	6·1	185	6·8
15	230	3·8	260	3·5	260	3·1	250	2·8	270	3·0	275	3·0	275	3·0	285	3·5	305	3·5	320	3·8	325	3·8	330	4·0
16	50	3·6	50	3·4	70	3·0	25	1·5	35	2·7	25	2·2	15	2·1	5	1·3	15	2·0	15	2·0	20	2·1	20	3·0
17	40	1·9	50	1·5	40	0·3	150	1·1	185	1·0	205	0·5	125	1·0	110	2·5	95	2·0	120	1·8	125	2·0	105	2·2
18	120	3·6	100	1·4	105	1·0	85	0·8	110	1·5	135	3·0	145	5·2	145	5·1	135	4·6	150	4·3	150	4·0	150	3·0
19	170	5·9	170	6·0	185	4·5	280	2·0	265	1·5	240	1·1	260	1·0	260	1·0	245	0·9	255	1·5	255	1·5	220	1·3
20	130	2·0	115	2·0	155	0·5	90	1·8	65	2·3	85	2·6	85	1·8	60	1·1	150	3·0	135	3·5	160	4·4	170	2·5
21	185	2·8	230	4·1	230	3·2	210	2·4	185	2·0	210	1·6	210	2·5	240	1·6	240	2·4	265	3·5	275	3·4	270	2·7
22	10	0·1	360	0·1	15	0·1	—	0·0	330	0·1	220	0·3	270	0·1	320	0·1	—	0·0	310	0·1	325	0·1	—	0·0
23	120	3·5	140	4·9	155	5·5	155	5·2	150	4·3	135	3·9	140	3·8	140	3·6	130	3·5	150	3·7	160	4·5	185	4·6
24	190	7·7	200	7·8	205	6·7	210	6·2	220	5·9	265	5·5	270	4·1	265	2·9	260	2·7	280	4·3	295	5·0	305	3·0
25	220	0·7	120	0·7	195	3·9	200	4·0	200	3·0	200	3·8	200	3·7	185	3·8	180	4·9	200	4·2	195	4·5	205	5·0
26	155	4·0	165	4·6	170	4·1	175	4·1	180	5·0	185	4·1	180	3·5	170	4·0	175	4·9	190	6·0	200	7·0	190	8·0
27	220	6·9	240	6·0	225	6·4	230	5·5	220	5·4	225	4·9	210	2·9	185	2·4	185	2·6	190	4·8	210	6·3	200	5·9
28	190	1·0	200	0·8	225	0·9	235	0·5	310	0·8	315	0·6	310	1·5	355	2·0	20	2·0	10	2·9	20	3·5	25	3·4
29	345	0·8	335	0·2	250	1·0	230	0·9	220	0·1	220	0·1	315	0·2	40	0·5	20	0·1	340	0·6	340	0·6	310	0·5
30	360	0·1	340	0·1	145	0·1	340	0·1	40	0·1	330	1·0	350	0·5	335	0·1	315	0·2	220	0·2	270	0·7	270	0·7
Mean ...	—	3·4	—	3·5	—	3·4	—	3·0	—	3·2	—	3·2	—	3·2	—	3·3	—	3·7	—	4·2	—	4·7	—	4·6

522. Richmond (Kew Observatory) : H_a = 5 metres + 23 metres.

Day.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.
1	350	1·5	350	2·1	345	1·2	315	0·7	350	0·2	260	0·1	305	0·5	310	0·3	220	0·1	250	0·5	310	2·6	350	2·2
2	210	0·6	215	1·5	210	2·2	225	3·0	260	2·0	225	0·1	160	1·0	170	2·0	190	1·0	190	1·9	205	0·5	200	0·6
3	180	6·2	175	6·9	175	6·0	200	6·5	200	7·9	195	8·5	195	9·2	200	10·0	205	10·6	205	10·4	200	10·6	210	10·7
4	230	6·2	210	4·6	215	5·9	230	7·5	235	8·1	250	9·1	265	10·1	260	10·0	260	9·9	260	8·9	260	10·4	250	9·5
5	275	5·9	265	5·0	265	4·7	265	5·2	245	3·9	230	4·0	225	3·8	215	3·5	235	4·8	225	5·0	215	5·4	210	4·6
6	255	9·4	265	7·4	260	8·9	260	6·9	250	6·1	240	5·2	235	4·7	225	5·4	225	5·5	230	4·0	215	3·7	220	2·4
7	5	3·1	30	2·6	15	2·7	350	1·8	280	0·6	325	2·0	325	2·0	320	1·8	285	1·5	220	2·5	270	2·5	280	2·0
8	235	4·5	225	5·1	220	2·6	220	4·4	230	4·9	225	4·0	210	4·9	220	4·0	230	4·4	230	3·9	235	4·2	240	4·1
9	265	2·5	265	2·0	245	2·2	235	2·7	260	3·5	230	3·5	230	2·4	235	2·6	250	3·4	270	4·5	275	4·8	280	4·8
10	270	3·5	270	3·0	265	3·5	255	3·2	255	3·0	240	3·0	230	3·0	230	3·0	260	3·0	270	3·6	300	5·6	310	6·8
11	320	2·5	320	2·6	330	2·3	315	3·0	315	2·3	325	1·7	335	2·5	340	2·9	350	3·1	360	3·9	360	4·3	360	4·0
12	280	1·2	270	0·9	270	0·8	270	1·0	240	0·6	260	1·1	260	1·4	300	2·4	300	2·8	310	2·6	295	2·5	250	2·2
13	285	1·6	295	1·8	300	1·4	305	0·7	240	0·5	200	1·0	210	1·0	230	1·0	225	0·9	235	1·7	240	2·8	250	3·4
14	250	2·1	260	2·6	260	2·5	235	2·8	235	2·5	245	1·7	240	1·5	255	1·9	250	2·0	245	1·9	270	2·8	265	2·9
15	240	2·6	240	3·0	240	2·7	245	3·2	250	3·4	245	3·1	240	3·1	245	2·7	260	2·3	255	2·2	255	1·9	265	2·2
16	45	3·6	65	4·3	65	3·6	45	1·6	50	2·8	55	2·7	50	2·3	45	2·3	30	3·0	40	3·1	40	3·5	30	3·0
17	5	1·1	5	1·6	10	1·6	10	2·2	15	2·0	360	0·7	15	0·5	325	0·4	330	0·5	325	0·6	325	0·6	315	0·8
18	10	2·0	350	2·2	320	1·9	305	0·3	350	0·9	340	0·5	325	1·0	220	0·1	220	0·1	265	0·5	275	1·1	305	1·7
19	155	(0·4)	250	(0·6)	250	(0·8)	250	(0·5)	245	(1·0)	180	(0·3)	160	(0·1)	210	(0·2)	250	(0·2)	—	0·0	—	0·0	270	0·1
20	235	1·0	195	1·1	225	0·9	230	0·9	255	1·6	235	1·0	215	1·0	195	1·5	315	1·4	315	0·5	320	1·4	335	1·5
21	35	4·0	35	3·9	55	3·1	60	2·8	60	4·0	60	3·5	60	3·0	65	3·2	60	3·3	50	3·6	45	3·3	45	3·4
22	80	3·5	40	2·1	35	2·9	55	2·9	65	2·3	90	4·1	90	4·4	90	3·5	100	3·1	125	3·2	125	2·9	110	3·5
23	225	1·5	220	0·6	190	1·0	215	1·1	220	1·5	210	2·0	215	2·9	205	3·8	210	5·4	215	5·0	240	5·0	225	5·0
24	220	4·3	210	4·4	215	5·0	215	5·3	215	5·5	225	4·9	230	4·5	220	5·0	225	5·3	235	4·0	225	5·0	235	4·7
25	240	3·5	220	3·0	235	3·0	250	3·9	260	4·1	260	2·6	255	2·8	240	2·3	225	2·5	245	3·0	235	2·5	230	2·4
26	230	1·5	230	1·7	230	2·2	230	2·7	230	3·0	230	2·3	215	2·5	215	2·5	220	2·0	240	2·7	235	2·1	255	2·4
27	250	2·2	245	2·0	255	1·9	270	2·5	255	2·5	255	2·5	250	2·1	260	2·5	260	2·8	270	3·4	275	3·5	275	4·1
28	235	4·5	240	5·2	245	5·7	255	5·6	250	7·1	245	7·2	240	7·3	240	6·8	240	6·1	255	6·7	255	7·2	265	8·9
29	250	4·7	245	5·5	245	5·2	255	4·7	255	5·1	265	4·8	270	4·3	275	4·5	300	5·2	310	3·4	320	5·2	310	4·9
30	320	4·4	315	4·6	330	5·4	330	4·5	330	4·0	330	4·5	335	4·2	350	4·0	340	5·0	340	3·5	340	3·9	335	5·5
31	315	3·4	295	1·8	260	1·6	260	1·5	295	1·4	260	1·1	235	1·5	230	2·1	215	1·8	250	1·5	310	3·3	300	2·8
Mean ...	—	3·2	—	3·1	—	3·1	—	3·1	—	3·2	—	3·0	—	3·1	—	3·2	—	3·3	—	3·3	—	3·7	—	3·8
Annual Mean ...	—	3·1	—	3·1	—	3·1	—	3·1	—	3·1	—	3·2	—	3·4	—	3·8	—	4·1	—	4·3	—	4·7	—	4·8

Averages for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

M.S.L. + h_a (height of anemograph above ground) = 5 metres + 23 metres.

November, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
185	5·6	200	5·5	185	4·8	185	4·0	185	2·5	155	1·5	130	1·1	115	1·2	110	1·5	90	1·2	75	1·0	85	1·3	2·3	1
195	5·9	200	5·1	200	6·0	200	6·1	205	5·7	195	3·5	195	2·5	200	3·1	195	3·7	190	4·5	195	5·1	200	4·3	3·4	2
210	11·0	210	12·4	210	11·9	210	12·5	210	13·3	210	13·5	210	13·4	210	12·7	215	13·2	210	12·9	210	13·2	210	13·3	10·5	3
225	9·2	225	10·0	235	8·4	225	6·5	220	6·6	220	6·0	210	5·5	210	5·5	210	5·8	205	4·8	195	3·6	195	3·5	9·5	4
180	4·9	180	4·5	180	4·1	170	4·3	170	2·7	170	2·9	170	2·8	150	2·2	155	2·8	160	3·8	160	2·6	155	4·0	3·2	5
140	5·3	140	4·8	145	4·3	135	4·2	130	4·0	125	4·5	145	3·0	100	3·0	70	2·5	90	2·5	60	1·1	20	0·3	3·6	6
235	4·3	210	4·1	200	4·8	185	4·3	155	3·5	140	3·8	140	5·4	150	6·4	150	7·6	150	7·8	150	7·2	155	4·6	4·0	7
90	4·0	115	3·0	120	3·0	85	2·5	85	2·5	90	2·8	90	3·2	85	2·5	110	1·8	95	1·0	125	0·1	80	0·1	3·6	8
180	7·9	165	7·1	185	8·3	205	6·3	215	5·7	210	4·5	220	5·0	220	5·4	230	4·0	210	3·6	215	4·9	195	3·2	4·1	9
200	6·9	200	5·5	195	6·0	195	6·0	205	8·8	200	6·6	210	7·1	215	8·9	215	9·0	210	8·5	205	8·1	210	8·0	6·2	10
230	8·0	220	8·4	220	9·1	225	10·0	215	8·0	215	7·6	220	8·3	220	5·8	225	5·5	220	4·9	220	3·9	220	3·0	7·9	11
260	7·0	265	6·2	260	5·9	270	4·6	235	3·8	240	3·9	250	3·9	225	3·6	230	3·7	245	3·4	250	2·5	235	2·4	4·0	12
255	1·0	235	1·6	230	1·6	220	1·5	195	1·5	180	1·8	195	1·5	205	1·6	185	1·9	180	1·8	180	1·5	170	2·5	1·7	13
190	7·8	175	6·9	150	4·9	145	5·2	145	5·5	150	6·5	150	6·8	145	7·0	170	6·4	210	6·8	220	6·0	225	5·0	4·8	14
335	3·4	330	3·2	345	3·7	355	4·0	360	3·5	10	2·7	10	2·5	35	3·0	55	4·1	65	4·5	70	4·1	55	3·5	3·5	15
10	2·3	30	3·0	60	2·5	55	3·7	55	4·2	55	3·8	60	3·0	85	2·9	45	2·2	40	2·5	55	2·2	45	2·3	2·7	16
110	2·9	110	2·0	100	1·8	110	1·8	105	2·5	100	2·9	95	3·1	110	2·8	100	2·8	100	3·3	115	2·3	115	2·5	2·0	17
140	3·0	130	3·6	145	3·0	140	2·9	125	3·8	140	4·2	155	4·5	150	5·3	150	6·3	155	5·6	155	4·9	165	5·6	3·7	18
195	1·6	190	1·5	185	1·4	170	1·8	155	1·3	125	0·8	105	1·3	100	1·5	110	1·5	105	1·5	95	1·8	105	1·3	2·0	19
150	2·4	140	2·0	130	2·0	125	2·6	120	3·4	125	3·0	145	2·1	145	2·3	130	1·9	165	2·7	180	3·0	195	3·6	2·4	20
270	2·1	255	2·0	280	1·6	240	0·7	215	0·5	190	1·0	185	1·8	200	1·0	200	1·0	200	1·1	255	0·4	—	0·0	2·0	21
—	0·0	85	1·5	85	3·0	80	3·0	85	3·1	100	2·5	100	3·5	115	4·0	120	4·6	130	4·8	130	5·3	130	4·4	1·6	22
190	6·1	190	4·8	175	4·2	175	4·4	185	5·5	180	6·0	170	6·1	185	5·9	180	6·5	180	6·2	175	6·6	190	8·0	5·0	23
285	3·5	265	3·0	260	3·1	240	2·0	225	2·5	225	2·5	210	2·2	200	2·1	200	2·6	200	3·6	200	2·1	195	1·0	4·0	24
190	5·0	180	5·2	185	4·7	180	3·9	165	3·1	160	3·0	170	5·3	165	5·1	150	4·0	165	4·6	155	4·5	155	4·5	3·9	25
185	7·1	180	8·5	185	9·1	185	9·0	180	11·0	180	12·0	180	11·8	245	6·5	235	5·5	210	4·9	200	5·5	200	5·9	6·5	26
195	6·0	185	6·1	185	6·3	190	6·0	200	5·2	205	4·8	205	4·1	190	3·5	195	2·6	195	2·4	175	1·8	170	2·7	4·7	27
10	3·2	30	3·5	55	4·6	65	3·9	50	3·4	55	3·8	35	3·0	50	2·9	25	1·9	45	2·8	30	2·0	340	0·9	2·4	28
260	1·3	270	1·2	265	0·2	250	0·4	255	0·8	275	1·1	210	0·1	350	0·1	310	0·1	65	0·1	310	0·1	5	0·1	0·5	29
265	0·1	275	0·6	300	0·5	290	1·1	310	1·5	330	1·0	340	0·4	350	1·3	20	1·5	15	2·0	5	1·5	345	1·2	0·7	30
—	4·6	—	4·6	—	4·5	—	4·3	—	4·3	—	4·1	—	4·1	—	4·0	—	3·9	—	4·0	—	3·6	—	3·4	3·9	—

December and Year, 1931.

13.		14.		15.		16.		17.		18.		19.		20.		21.		22.		23.		24.		Mean	Day
°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	°	m/s.	m/s.	
5	1·4	40	0·6	275	1·2	315	1·0	20	0·1	360	0·1	360	0·1	225	0·5	195	0·8	210	0·4	185	0·7	235	1·0	0·8	1
190	0·5	200	2·9	180	3·4	175	2·2	165	4·2	165	4·6	170	4·6	165	4·8	170	4·0	170	5·1	180	5·7	180	6·7	2·6	2
210	10·1	225	8·2	240	7·2	245	8·0	255	7·6	245	6·8	245	7·0	240	5·9	240	6·4	235	6·2	230	6·2	225	5·8	7·9	3
235	9·7	240	10·0	245	9·0	260	10·3	265	11·1	260	11·9	265	11·4	265	10·7	265	11·2	270	11·3	270	10·7	275	9·4	9·4	4
200	4·7	195	4·4	190	5·7	180	6·0	185	8·4	190	7·7	210	8·2	215	11·2	225	12·5	220	12·0	230	9·2	235	9·0	6·5	5
205	2·8	215	3·3	175	1·8	95	1·3	95	2·0	90	1·5	60	1·7	100	1·1	70	1·2	360	1·9	15	3·0	25	3·1	4·1	6
310	4·0	275	3·0	250	2·6	255	2·8	250	3·0	225	3·0	230	2·9	225	3·0	235	2·5	230	2·5	230	3·2	250	2·6	2·5	7
230	3·6	240	2·8	275	2·5	260	1·5	250	0·6	230	1·1	235	0·9	235	1·5	240	2·0	225	2·0	245	2·5	265	2·5	3·1	8
290	5·6	285	5·1	270	5·0	260	4·0	260	4·0	270	4·1	270	4·5	285	4·5	295	4·6	285	3·6	290	4·0	295	2·2	3·8	9
310	8·1	315	7·1	320	5·5	310	3·5	305	2·8	310	2·3	305	2·8	305	2·5	310	2·6	320	3·1	330	3·2	330	3·0	3·8	10
360	3·2	10	3·4	20	2·5	360	1·8	355	0·8	330	0·5	320	0·2	300	0·9	—	0·0	275	0·7	255	1·0	270	1·0	2·2	11
270	2·7	275	2·5	270	2·3	265	2·1	340	1·3	240	1·4	240	1·4	275	1·4	280	2·1	275	2·0	275	1·7	260	1·4	1·7	12
245	2·6	250	2·4	240	3·0	240	3·1	255	3·7	255	3·3	250	1·8	240	1·4	240	2·7	230	2·4	225	3·0	235	2·4	2·0	13
270	2·8	260	2·4	240	2·5	230	2·4	235	2·3	235	2·4	240	2·6	240	2·4	240	2·7	240	2·6	235	2·5	230	2·4	2·4	14
280	1·9	305	2·2	315	1·9	305	0·8	310	0·6	315	3·0	55	3·8	60	3·3	55	3·0	50	2·7	40	2·3	55	3·0	2·5	15
40	3·5	40	3·4	45	3·0	30	1·9	15	2·9	35	3·0	15	3·0	15	2·4	25	2·6	5	2·0	360	1·5	360	1·4	2·8	16
355	2·3	20	3·5	20	3·3	25	3·8	15	3·5	10	2·6	5	3·0	15	2·0	15	0·6	30	2·6	30	2·3	25	1·8	1·8	17
285	2·1	270	1·1	225	(0·8)	260	(0·6)	270	(0·9)	225	(0·7)	285	(0·9)	280	(1·1)	265	(1·6)	255	(1·0)	300	(0·7)	245	(0·6)	1·0	18
—	0·0	315	0·3	265	1·5	275	1·0	280	0·6	315	0·1	305	0·5	305	0·7	275	0·1	240	1·0	245	1·0	230	1·4	0·5	19
5	2·0	5	2·0	10	1·8	5	2·3	350	2·1	360	2·3	10	3·0	25	3·0	20	2·9	30	4·4	25	3·6	30	3·0	1·9	20
20	3·5	35	4·1	30	3·9	35	4·0	45	3·4	50	2·5	50	3·1	75	4·1	65	5·2	50	3·0	40	2·3	70	3·8	3·5	21
125	3·9	130	3·5	110	4·2	95	2·5	115	2·6	115	2·0	140	2·5	170	2·1	195	2·5	200	3·0	225	2·8	235	1·6	3·0	22
220	3·5	220	3·8	240	3·4	225	5·0	235	4·2	230	4·0	235	4·4	235	5·1	235	5·3	235	5·5	230	4·9	220	5·4	3·6	23
245	4·9	240	4·6	250	4·5	230	4·8	225	3·8	230	3·5	240	3·9	235	4·0	230	4·0	230	4·3	235	3·5	235	3·4	4·5	24
240	2·7	220	4·2	225	4·3	225	3·5	240	3·0	245	1·7	245	1·6	220	2·5	230	2·0	240	1·8	230	2·2	215	2·0	2·8	25
270	3·1	280	3·8	300	3·7	280	2·8	265	2·0	270	2·5	250	2·6	240	2·4	—	1·4	255	2·1	255	2·2	245	2·3	2·4	26
275	4·3	270	3·8	255	3·4	260	3·8	260	3·8	260	3·9	260	3·5	250	3·5	245	3·5	245	4·9	230	4·4	240	4·6	3·3	27
270	6·1	275	5·4	295	5·6	290	6·4	270	4·4	265	5·7	275	5·9	265	4·5	270	5·4	275	4·9	270	4·4	250	4·2	5·9	28
305	3·9	275	3·9	260	2·6	275	3·4	280	3·6	285	4·6	305	5·2	310	4·8	330	5·7	320	6·8	320	5·5	320	5·3	4·7	29
340	5·4	330	4·4	315	4·0	315	3·5	315	4·0	315	3·0	315	3·7	325	3·6	315	4·4	320	4·4	320	4·0	315	3·5	4·3	30
320	3·0	325	2·6	320	1·5	305	1·2	300	0·6	235	1·2	205	1·2	205	1·5	210	1·4	205	1·3	205	1·0	215	0·9	1·8	31
—	3·8	—	3·7	—	3·5	—	3·3	—	3·2	—	3·1	—	3·3	—	3·3	—	3·4	—	3·6	—	3·4	—	3·2	3·3	—
—	4·9	—	5·0	—	5·0	—	4·8	—	4·6	—	4·2	—	3·9	—	3·7	—	3·6	—	3·4	—	3·2	—	3·2	3·9	—

523. Richmond (Kew Observatory) : H_a = 5 metres + 23 metres. **1931.**

Month	Jan.		Feb.		Mar.		April		May		June	
Day.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.
	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.
1	5	15 25	15	17 25	22	13 55	17	11 10	9	12 0	9	9 10
2	8	7 50	11	0 25	10	0 15	9	6 25	9	18 10	10	17 50 18 40
3	11	19 25	17	12 20	11	17 35	12	22 0	17	17 50	11	11 15
4	10	15 10	10	0 20	19	10 20	12	5 30	17	15 40	13	23 55
5	4	17 55	6	23 45	17	18 10	13	9 0	18	11 45	19	13 25
6	5	13 50	10	4 50	23	15 5	7	18 35	15	13 45	13	11 40
7	8	16 35	7	13 20	21	14 10	7	2 10	12	11 30	13	13 40
8	4	22 20	15	22 30	19	10 15	13	10 10	17	18 25	13	9 5
9	10	14 30	15	23 5	14	9 5	8	11 5	13	5 45	15	15 25
10	6	10 40	23	14 20	14	15 25	9	6 10	11	13 10	18	10 25
11	11	18 15	27	22 15	15	11 30	9	16 50	14	16 20	13	4 35
12	11	1 35	28	3 15	10	11 50	17	18 30	14	15 40	12	13 15
13	20	16 50	17	8 45	12	15 40	15	8 15	18	14 45	11	12 0
14	15	1 50	17	9 35	9	13 50	12	12 35	19	13 25	22	14 30
15	10	3 35	13	13 45	10	24 0	12	23 0	14	19 30	17	6 10
16	25	21 10	18	11 30	17	17 20	15	3 40	13	0 25	16	9 10
17	26	0 25	10	17 15	13	0 25	23	18 15	11	19 40	13	12 30
18	14	13 35	20	16 5	10	15 45	18	13 5	11	15 40	15	19 15
19	12	10 20	13	0 5	13	13 0	18	8 10	14	21 5	14	13 20
20	8	16 25	17	12 55	13	15 0	20	8 55	15	7 45	12	8 5
21	9	14 20	18	13 10	14	10 25	12	5 35	12	14 15	11	15 50
22	11	22 45	10	13 10	11	11 10	13	16 45	11	18 20	11	11 50
23	19	23 45	10	19 45	11	23 55	17	13 25	9	10 5	7	21 55
24	20	12 15	11	23 0	16	16 20	18	12 20	18	14 35	13	8 20
25	17	14 35	14	22 5	13	1 15	21	15 0	13	13 45	13	11 55
26	15	0 10	16	8 45	11	3 40	17	12 55	10	10 25	8	13 10
27	10	23 50	12	16 40	5	15 10	16	9 15	14	18 10	9	12 55
28	22	14 35	23	20 15	15	23 45	16	1 10	17	14 10	9	13 0
29	12	12 10	—	—	15	1 35	10	8 25	14	12 0	10	8 5
30	20	10 5	—	—	14	17 50	11	16 30	9	11 0	8	14 25
31	16	20 5	—	—	16	9 40	—	—	14	16 15	—	—

Month	July		Aug.		Sept.		Oct.		Nov.		Dec.	
Day.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.	Max. in a Gust.	Time of Gust.
	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.	m/s.	h. m.
1	7	16 35	10	18 50	11	15 15	11	23 35	11	12 50	6	11 30
2	13	12 0	13	17 5	16	12 0	14	15 5	14	11 30	13	23 25
3	11	12 55	21	13 25	14	10 40	11	12 50	27	16 55	21	10 55
4	16	15 20	11	13 25	15	11 15	11	11 15	27	1 15	25	17 35
5	12	7 5	13	19 25	16	16 55	10	9 20	9	14 25	21	21 0
6	13	16 20	8	3 35	11	9 50	13	14 10	12	7 55	21	2 35
7	11	15 40	12	13 10	10	11 45	16	12 20	15	22 10	9	12 55
8	15	15 40	17	12 5	5	15 35	16	11 35	12	3 20	11	4 30
9	13	13 55	16	9 55	9	10 55	16	9 40	19	13 5	13	13 15
10	15	17 10	13	13 50	8	18 40	7	0 30	18	20 25	19	13 25
11	12	12 45	11	15 10	7	10 20	4	13 30	23	15 45	9	11 30
12	18	18 0	12	15 25	14	17 45	7	15 40	14	13 0	7	8 35
13	15	15 20	9	21 20	10	14 15	11	15 10	5	5 40	9	18 20
14	14	13 25	15	9 10	8	13 20	12	14 0	15	13 5	7	10 50
15	13	11 20	17	15 25	7	12 25	8	20 20	10	15 45	9	18 15
16	13	15 25	22	12 30	5	18 30	13	20 15	8	16 55	9	2 0
17	15	21 20	20	13 35	7	11 20	13	21 20	7	18 30	7	14 0
18	17	2 0	9	13 5	4	20 20	11	7 35	13	21 25	4	12 15
19	20	14 10	21	17 15	12	22 10	7	21 40	12	1 45	4	15 15
20	14	16 15	23	12 55	11	7 50	13	15 10	9	12 10	9	21 40
21	11	17 25	15	8 25	15	10 35	9	13 50	9	2 35	10	5 10
22	15	14 30	9	14 20	17	15 15	6	18 20	9	22 20	8	7 10
23	13	15 25	7	15 0	14	4 30	8	14 35	15	23 45	12	21 35
24	13	14 40	18	20 25	9	13 10	15	15 50	16	1 25	11	5 25
25	16	14 40	18	9 55	12	6 25	16	14 20	12	14 45	9	5 10
26	11	20 25	8	19 25	10	9 20	11	13 30	23	18 20	9	14 30
27	15	9 50	15	15 55	7	11 40 13 0	5	15 15	15	10 55	10	21 40
28	16	15 50	16	16 40	9	9 25	15	15 5	9	15 10	18	11 50
29	16	18 20	19	10 45	9	17 45	13	22 5	3	3 15	15	21 55
30	13	10 35	14	14 55	13	15 15	19	5 35	5	17 35	13	3 5
31	9	15 10	12	8 35	—	—	10	13 25	—	—	8	0 40

DISTRIBUTION OF WIND SPEED: EXTREME VELOCITIES AS RECORDED BY THE DINES TUBE ANEMOGRAPH.

524. Richmond (Kew Observatory) : H_a = 5 metres + 23 metres. **1931.**

Month.	DISTRIBUTION OF WIND.								EXTREME VELOCITIES.				
	More than 17·1 m/s.		10·8 to 17·1 m/s.		5·5 to 10·7 m/s.	1·6 to 5·4 m/s.	Less than 1·6 m/s.	No Record.	Highest Hourly Wind.			Highest Gust.	
	Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Veer from N.	Speed.	Mid. Time.	Speed.	Date.
		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day. hour.	m/s.	d. h. m.
Jan.	—	0	1	4	173	395	172	0	270	11	16 22	26	17 0 25
Feb.	—	0	1	3	214	350	105	0	215	13	11 16	28	12 3 15
Mar.	—	0	3	26	287	304	127	0	80	14	6 10	23	6 15 5
April	—	0	1	1	223	418	78	0	220	11	25 15	23	17 18 15
May	—	0	1	3	181	449	111	0	230	11	14 12	19	14 13 25
June	—	0	1	4	195	401	120	0	90	12	5 13	22	14 14 30
July	—	0	0	0	164	499	81	0	220	9	12 19	20	19 14 10
Aug.	—	0	3	4	232	398	110	0	215	12	20 14	23	20 12 55
Sept.	—	0	0	0	58	411	251	0	220	7	3 15	17	22 15 15
Oct.	—	0	0	0	93	419	232	0	270	9	30 4	19	30 5 35
Nov.	—	0	3	29	134	403	154	0	210	14	4 1	27	4 1 15
Dec.	—	0	2	8	86	493	157	0	225	13	5 21	25	4 17 35
Year	—	0	16	82	2040	4940	1698	0	80	14	March. 6 10	28	Feb. 12 3 15

525. Richmond (Kew Observatory). *Readings, in degrees absolute, at 9h., Greenwich Mean Time.* 1931.

Month	Jan.		Feb.		Mar.		April		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.	
Day.	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm	30 cm	122 cm
	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	77·9	80·3	76·7	79·3	77·4	79·1	78·9	80·1	82·2	81·8	87·7	84·8	90·6	87·2	89·6	88·1	88·0	87·4	85·9	86·2	79·5	83·4	79·7	82·1
2	76·5	80·3	76·7	79·2	76·6	79·2	79·1	80·1	83·0	81·9	87·5	84·8	90·8	87·3	90·0	88·1	88·5	87·4	86·7	86·3	79·1	83·3	79·3	82·2
3	76·2	80·3	76·7	79·2	76·0	79·1	79·3	80·2	82·7	81·9	88·7	85·0	90·1	87·3	90·1	88·1	87·9	87·4	86·3	86·2	80·2	83·2	79·2	81·9
4	76·4	80·2	76·6	79·2	76·4	79·1	79·5	80·4	81·6	82·1	88·9	85·2	91·0	87·5	90·6	88·1	88·1	87·4	86·1	86·1	82·1	83·2	80·2	82·0
5	76·0	80·1	76·0	79·2	76·6	79·1	80·0	80·2	82·1	82·2	89·2	85·2	90·8	87·6	91·2	88·1	87·9	87·4	86·8	86·2	82·0	83·2	80·6	81·8
6	75·3	80·0	75·7	79·2	76·6	79·0	80·2	80·1	82·8	82·2	88·1	85·3	90·6	87·8	91·5	88·2	86·6	87·5	86·1	86·1	81·8	83·2	80·8	81·9
7	75·0	79·9	76·0	79·1	75·7	79·0	80·3	80·2	83·7	82·2	88·7	85·5	90·5	87·8	91·0	88·2	86·3	87·4	86·8	86·2	82·1	83·2	79·7	81·9
8	74·8	79·8	75·8	79·0	75·4	78·8	80·9	80·3	84·0	82·2	88·7	85·6	90·8	87·8	91·0	88·3	85·5	87·2	85·8	86·2	82·2	83·2	78·3	81·8
9	74·7	79·5	77·2	79·0	74·8	78·9	81·6	80·3	84·2	82·2	88·7	85·6	90·0	87·9	89·5	88·3	85·8	87·2	85·8	86·2	82·0	83·3	78·2	81·8
10	74·7	79·4	79·0	79·0	74·6	78·6	82·6	80·3	85·2	82·4	88·7	85·8	90·5	88·0	88·7	88·4	86·4	87·1	85·9	86·1	81·8	83·3	78·7	81·6
11	74·6	79·3	77·8	79·1	74·4	78·5	82·8	80·5	85·1	82·6	88·5	85·9	90·3	87·9	88·2	88·4	85·8	87·1	86·1	86·1	81·9	83·3	79·7	81·6
12	75·1	79·2	77·8	79·2	74·4	78·4	83·0	80·9	85·9	82·7	89·0	86·0	90·6	87·9	89·2	88·3	85·5	87·0	86·0	86·2	81·9	83·3	79·9	81·5
13	75·7	79·1	76·9	79·2	74·7	78·3	83·0	81·1	86·0	83·0	89·7	86·0	90·5	88·0	90·2	88·2	85·0	86·9	86·1	86·2	81·2	83·3	80·0	81·4
14	75·4	79·1	76·2	79·2	75·1	78·2	82·6	81·2	86·5	83·2	90·4	86·0	90·2	88·1	90·1	88·2	85·3	86·8	85·0	86·1	80·3	83·2	79·9	81·4
15	75·0	79·0	75·8	79·2	75·8	78·2	82·5	81·3	85·9	83·2	89·9	86·2	90·0	88·1	89·1	88·3	86·2	86·7	84·0	86·1	80·7	83·2	80·0	81·5
16	76·4	79·0	76·3	79·1	76·3	78·2	82·1	81·4	85·5	83·6	89·5	86·3	89·6	88·1	89·6	88·5	87·0	86·7	84·1	86·1	80·8	83·1	80·0	81·5
17	77·4	79·0	76·3	79·0	76·4	78·2	81·9	81·4	85·2	83·6	89·0	86·2	90·0	88·1	89·2	88·2	87·5	86·7	84·7	86·0	80·0	83·1	79·1	81·5
18	76·6	79·0	75·8	79·0	76·3	78·3	81·0	81·4	84·8	83·6	88·8	86·5	89·6	88·1	89·2	88·3	87·6	86·8	84·5	85·8	79·8	83·0	78·0	81·4
19	77·0	79·0	75·9	79·0	77·9	78·3	81·0	81·6	84·3	83·6	88·2	86·5	89·0	88·1	90·0	88·1	87·2	86·8	84·1	85·8	80·2	82·9	77·2	81·4
20	78·2	79·1	75·7	78·9	79·4	78·3	80·3	81·5	83·9	83·7	88·1	86·5	89·0	88·1	89·7	88·3	87·9	86·7	84·1	85·7	79·7	82·9	76·5	81·4
21	77·9	79·2	76·7	78·9	80·9	78·5	80·1	81·4	83·6	83·8	88·0	86·6	88·7	88·0	89·0	88·3	87·0	86·8	82·4	85·4	79·9	82·8	77·0	81·3
22	78·1	79·2	76·0	78·8	81·0	78·8	80·8	81·4	84·2	83·6	89·2	86·7	89·2	88·0	88·7	88·3	86·1	86·9	81·2	85·4	79·1	82·6	77·0	81·2
23	78·7	79·3	75·8	78·8	81·3	79·1	81·1	81·3	84·8	83·7	90·5	86·6	89·5	88·0	88·3	88·3	86·1	86·9	81·0	85·2	79·1	82·4	77·0	81·0
24	78·8	79·4	76·0	78·8	80·9	79·3	81·7	81·3	85·1	83·6	90·8	86·8	90·1	88·0	87·7	88·2	86·0	86·7	80·9	85·1	80·6	82·3	77·2	81·0
25	78·0	79·6	76·9	78·8	78·2	79·5	82·0	81·3	85·2	83·6	88·2	86·9	90·7	88·0	86·8	88·1	86·0	86·8	80·1	85·0	80·2	82·3	78·4	80·7
26	77·4	79·5	78·8	78·8	79·8	79·8	81·9	81·5	87·0	83·7	87·9	86·9	90·0	88·1	86·3	88·1	85·8	86·7	79·4	84·9	80·8	82·2	79·4	80·7
27	76·8	79·5	78·2	78·9	79·3	79·8	82·0	81·4	87·6	84·0	89·0	87·0	89·9	88·1	87·0	87·9	85·4	86·6	79·0	84·4	81·0	82·2	79·8	80·9
28	77·0	79·5	78·2	78·9	79·8	79·9	81·9	81·6	88·2	84·1	90·1	86·9	89·4	88·1	87·1	87·8	85·6	86·4	78·2	84·2	80·6	82·3	79·6	80·9
29	76·9	79·4	—	—	79·8	79·9	81·7	81·6	87·2	84·2	90·9	87·0	89·0	88·1	87·5	87·6	85·5	86·2	78·8	84·1	80·0	82·4	78·8	81·0
30	77·1	79·4	—	—	79·2	80·0	82·0	81·8	87·4	84·3	90·9	87·1	89·2	88·1	88·0	87·6	85·7	86·2	80·0	83·7	79·6	82·3	77·3	81·0
31	76·2	79·4	—	—	79·1	80·1	—	—	87·5	84·6	—	—	89·5	88·1	88·1	87·5	—	—	79·1	83·5	—	—	76·1	81·0
Mean	76·5	79·5	76·7	79·0	77·4	79·0	81·3	81·0	84·9	83·1	89·1	86·1	90·0	87·9	89·1	88·1	86·5	86·9	83·6	85·6	80·7	82·9	78·8	81·4
																						Year	82·9	83·4

The initial 2 or 3 of the readings is omitted ; *i.e.*, 275·0 degrees absolute is written 75·0.

MINIMUM TEMPERATURE "ON THE GRASS" DURING THE INTERVAL 18H. TO 7H. G.M.T.

Readings in degrees absolute.

526. Richmond (Kew Observatory). 1931.

Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Day.	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A	°A
1	68·0	75·2	68·9	**68·4**	**71·6**	82·2	79·8	82·0	81·3	81·0	71·4	77·0
2	66·9	66·8	66·8	76·3	76·2	78·2	84·6	86·8	86·8	85·2	**69·1**	69·6
3	70·9	72·9	64·2	80·1	76·8	85·9	80·3	88·5	79·5	78·3	77·3	76·1
4	71·6	74·0	74·4	71·4	75·5	83·9	83·9	88·0	82·5	76·4	84·6	81·0
5	66·1	66·1	74·0	72·9	72·8	84·0	87·9	89·6	82·6	87·5	75·2	76·1
6	66·0	69·8	74·5	76·5	74·9	84·2	83·7	86·9	76·0	76·6	76·0	76·3
7	**64·8**	73·8	69·7	77·8	75·4	82·4	**78·7**	83·7	72·4	83·6	79·7	67·4
8	67·8	68·4	70·5	74·0	79·0	84·4	83·1	84·8	**72·3**	78·8	80·4	70·3
9	70·2	78·8	63·5	74·3	78·9	83·1	81·1	80·1	75·9	81·1	76·4	72·2
10	65·5	82·4	**57·5**	82·8	75·1	86·7	85·0	77·8	81·0	81·0	76·9	75·7
11	73·3	71·6	63·5	71·9	80·3	87·0	85·4	79·3	75·4	80·8	81·2	79·4
12	77·9	72·7	67·8	70·1	82·0	87·8	83·5	85·3	75·4	79·6	75·6	78·4
13	72·2	71·3	65·1	71·7	79·6	80·7	84·0	86·6	73·0	80·2	73·2	79·4
14	70·0	71·0	72·2	70·4	80·2	85·8	84·3	87·0	75·5	73·4	70·4	78·7
15	72·2	68·6	66·8	80·6	75·4	84·2	86·4	81·2	82·5	72·7	79·7	79·1
16	78·5	73·4	73·1	78·4	83·4	81·9	85·6	84·4	80·4	77·9	76·7	77·6
17	76·6	69·7	74·3	78·7	82·0	84·3	83·6	85·4	81·0	84·2	69·5	67·1
18	73·4	71·6	70·2	72·6	80·1	78·5	86·7	82·0	86·1	82·0	73·6	67·7
19	76·1	73·6	72·0	75·8	78·4	82·9	84·1	85·6	79·4	75·4	79·4	69·4
20	79·3	66·9	78·2	76·9	78·6	79·3	81·1	83·7	82·7	79·0	71·0	65·6
21	71·0	76·8	82·4	76·1	75·1	78·5	78·9	85·2	74·2	68·6	73·5	74·2
22	78·0	**64·7**	77·4	71·9	81·6	83·4	84·4	81·0	77·4	67·7	70·5	74·4
23	75·4	69·0	79·0	74·0	74·7	86·6	80·8	75·6	82·0	70·5	77·1	73·4
24	75·5	67·8	77·1	78·8	77·5	87·8	79·3	76·4	78·4	73·7	82·0	75·3
25	73·6	75·0	77·2	79·2	76·9	77·6	86·1	82·9	81·3	67·7	72·9	79·7
26	72·9	81·4	74·4	78·0	81·2	**75·7**	86·5	**75·1**	80·2	68·5	80·8	78·2
27	66·9	69·4	67·8	77·6	79·8	77·1	84·2	76·6	79·3	68·4	73·3	76·2
28	76·1	74·9	71·0	76·0	86·4	82·1	82·6	81·5	79·0	**65·3**	72·9	77·0
29	70·5	—	75·2	73·0	76·1	85·6	81·3	83·0	78·2	70·5	71·0	71·9
30	75·8	—	76·7	72·0	80·7	78·3	85·7	85·6	77·2	79·0	74·7	71·0
31	65·4	—	75·0	—	78·4	—	84·5	85·8	—	66·9	—	**64·3**
Mean	71·9	72·1	71·6	75·3	78·2	82·7	83·5	83·1	79·0	76·2	75·5	74·2
											Year	77·0

The initial 2 or 3 of the readings is omitted ; *i.e.*, 275·0 degrees absolute is written 75·0.

Note.—The minimum refers to the interval from 18h. the previous day to 7h. on the day to which it is entered.

HEIGHT IN CM. ABOVE M.S.L. OF SURFACE OF UNDERGROUND WATER.

Daily Means and Extremes for Months.

527. Richmond (Kew Observatory). 1931.

Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Day.	cm.	cm.	cm.	cm.	cm.	cm.	cm.	cm.	cm.	cm.	cm.	cm.
1	208	207	204	202	216	203	187	174	211	191	178	193
2	211	205	202	201	217	205	187	176	210	189	178	193
3	213	204	202	199	218	205	186	180	209	189	177	194
4	215	205	203	199	218	205	186	182	208	187	175	194
5	217	207	205	202	218	205	187	183	208	187	173	191
6	220	211	208	207	219	206	187	184	208	185	172	192
7	222	216	216	213	221	206	186	185	208	184	171	193
8	225	219	230	218	219	204	185	186	207	182	171	194
9	228	221	243	220	216	203	184	186	205	180	172	195
10	229	220	248	219	214	201	182	185	204	179	173	197
11	229	219	249	217	211	199	181	185	203	179	176	198
12	227	218	247	214	209	197	180	183	203	181	178	199
13	225	216	244	211	206	196	178	183	203	185	182	200
14	222	215	240	207	204	195	177	183	204	189	186	200
15	221	215	235	205	201	194	176	185	205	193	190	199
16	219	215	231	203	199	193	176	189	205	195	192	197
17	217	213	228	201	198	192	177	195	205	196	193	196
18	215	212	225	199	197	192	178	202	203	195	192	194
19	214	211	222	199	196	192	179	208	202	193	191	193
20	213	211	220	202	196	193	179	213	201	191	189	191
21	214	210	218	205	197	195	180	218	200	189	187	189
22	216	210	217	208	197	197	181	221	198	188	187	187
23	218	210	219	210	198	197	181	223	196	187	189	185
24	216	209	218	210	198	195	180	224	194	185	188	184
25	214	209	217	209	197	193	179	222	193	184	186	182
26	215	208	216	209	197	192	177	219	191	183	187	181
27	216	207	214	209	198	191	177	218	190	183	188	181
28	215	206	212	210	199	190	176	216	191	182	189	181
29	213	—	210	212	199	189	175	215	191	181	190	182
30	210	—	207	214	200	188	175	213	191	180	192	183
31	209	—	205	—	201	—	175	212	—	179	—	183
Mean	218	212	221	208	202	197	180	198	201	186	183	191

Annual Mean = 200 cms.

Extremes for the months :—Jan. 7, 230, 207 ; Feb. 221, 204 ; Mar., 250, 202 ; April, 221, 198 ; May, 221, 196 ; June, 206, 188 ; July, 188, 174 ; Aug., 224, 174 ; Sep. 211, 190 ; Oct., 197, 178 ; Nov., 193, 170 ; Dec., 200, 181.

528. Richmond (Kew Observatory). January, 1931.

Day.	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the Weather of the Day.
	7^h	13^h	18^h	7^h	9^h	13^h	15^h	18^h	21^h	7^h	9^h	13^h	15^h	18^h	21^h	7^h	9^h	13^h	15^h	18^h	21^h	
1	A-Cu.	A-Cu.	A-Cu.	2	10	6	9	9	0	B	X	A	D	F	B	...	...	...	...	...	...	f ⊔ *a, p, n.*
2	St-Cu.	St : Ci.	St-Cu : A-Cu : Ci-St.	1	9	2	7	10	10	i	H	H	G	E	E	...	...	...	...	...	...	⊔ early *a* : f ⌓ *n* : Ⓣ 18^h.
3	Nb.	Nb.	St-Cu : A-St : A-Cu.	10	10	10	10	9	9	G	F	F	F	F	G	●°	...	●°	●°	...	...	●° early *a, p* : m *a, p.*
4	St.	St-Cu : Cu : Ci-St.	St-Cu : A-Cu : Ci-St.	10	10	7	–	7	5	G	F	G	–	G	E	...	...	...	–	...	...	m 9^h : f ⊔ *n.*
5	St : St-Cu.	—	—	9	10	0	1	0	0	E	D	F	G	F	E	...	...	...	...	...	...	f ⊔ *a* : m ⊔° *p* : f ⊔ *n.*
6	A-Cu.	—	—	1	10	0	0	0	0	C	B	B	E	C	D	...	...	...	...	...	...	f ⊔ *a, p, n.*
7	St-Cu.	Ci : Ci-Cu.	—	9	8	4	1	0	6	F	D	E	E	G	E	...	...	...	...	...	...	m ⊔ early *a* : f ⊔ *a* : f *p* : f ⊔ *n.*
8	St : St-Cu.	St.	St.	9	10	10	2	10	10	F	D	D	E	X	X	...	...	...	...	...	...	m ⊔ early *a* : f ⊔ *a, p, n.*
9	Nb.	Fr-Cu : Ci.	—	10	10	2	0	0	0	F	F	G	G	F	D	✱	...	...	...	...	...	m ⊔ early *a* : ✱ m 7^h : f ⊔ *n.*
10	St.	St.	Nb.	10	10	10	10	10	8	C	C	D	D	E	E	...	...	...	...	...	...	f ⊔ early *a* : f *a, p, n.*
11	St-Cu.	Cu : St-Cu : A-Cu.	St : A-St.	9	10	9	–	10	10	H	G	G	–	G	G	...	...	...	–	...	●°	●° *n.*
12	Nb.	St : St-Cu.	St-Cu.	10	9	9	4	9	9	G	F	F	G	G	F	...	...	...	...	...	...	● early *a* : m *a, n.*
13	St.	St-Cu : Ci-St.	St-Cu.	10	9	9	10	4	1	G	G	H	G	G	K	●°	...	...	●°	...	...	●° *p* : ⅃ (gusts) *p.*
14	St-Cu : A-Cu.	—	St-Cu.	1	0	0	2	7	10	J	H	H	G	i	G	...	...	...	...	...	...	⊔ early *a.*
15	St-Cu : St.	St : St-Cu.	St.	9	10	10	10	10	10	G	H	G	G	G	G	...	...	...	●°	...	...	●° early *a, p.*
16	Nb.	St : Fr-St : A-St.	St-Cu.	10	10	10	10	10	10	i	H	H	H	H	J	●°	...	...	...	...	...	●° early *a* : ⅃ (gusts) *p, n.*
17	St-Cu : A-Cu : Ci.	St-Cu : Cu.	St-Cu.	6	9	9	9	1	1	K	J	I	K	J	J	...	●°	...	...	...	...	⅃ (gusts) early *a, a, p* : ●° ● *a.*
18	St : St-Cu : A-St.	Nb : Cu-Nb : Ci-St.	St.	9	9	10	–	10	10	J	i	G	–	G	F	...	...	●°	–	...	●°	●° *a, n* : m *n.*
19	Nb.	St-Cu.	St.	10	10	10	10	10	9	i	i	G	G	G	G	●	...	...	...	...	...	●° early *a, n.*
20	St : St-Cu : A-St.	St.	St-Cu.	9	10	10	10	5	0	G	E	G	G	G	A	...	...	...	...	...	...	●° early *a* : f 9^h, *n* : ⊔ *n.*
21	St : St-Cu.	St-Cu.	St-Cu.	10	10	10	10	10	6	C	C	G	H	i	J	...	...	...	...	...	...	●° f early *a* : f m *a* : p ●° *n.*
22	St : St-Cu.	St.	Nb.	10	10	10	10	10	1	i	H	i	G	G	G	...	...	...	●°	●°	...	●° early *a* : d ●° *p.*
23	Nb : Fr-Nb.	Nb.	St.	9	10	10	10	10	9	J	i	i	i	J	J	...	●	●°	...	...	...	● ⅃(gusts) early) *a, a* : ●° *p* : ⅃(gusts) *n.*
24	St-Cu.	St-Cu.	St-Cu.	2	1	8	8	1	0	K	i	K	J	i	J	...	...	...	...	...	...	●° ⅃ (gusts) early *a* : ⅃ (gusts) *a, p.*
25	A-St : Ci-St.	Cu : St-Cu.	Cu : Ci-St.	9	1	7	–	1	6	K	G	i	–	J	J	...	...	...	–	...	...	⅃ (gusts) *p* : ● *n.*
26	St-Cu : A-St.	St-Cu.	St-Cu : A-St : Ci-St.	6	1	6	5	4	9	i	i	i	i	G	i	...	...	...	...	...	●	
27	—	Fr-Cu.	A-St.	0	0	1	1	10	10	G	E	H	G	G	G	...	...	...	...	...	●	⊔ ∼ early *a* : f 9^h : ●° ● *n.*
28	A-Cu.	St-Cu.	St : St-Cu.	9	9	9	10	9	1	J	i	H	K	i	i	...	...	...	...	...	...	● ●° early *a* : ⅃ (gusts) *p.*
29	St-Cu.	St-Cu.	St-Cu : A-Cu.	2	2	9	9	9	9	G	H	H	H	i	i	...	...	...	...	...	●°	● ●° early *a* : p ●° *p* : ● ●° *n.*
30	St-Cu : Cu.	St.	Nb.	10	10	10	10	10	0	J	J	i	G	G	J	...	...	...	●°	...	...	●° early *a* : ⊛° 10^h 30^m : ●° *p.* [●° *p, n.*
31	St.	Ci-St : Ci-Cu.	Nb : A-St.	10	0	8	10	10	10	E	D	G	G	G	G	...	...	...	...	●°	●°	⊔ f early *a* : ⊕ (22° and 46°) *a, p* :
Mean Cloud Am'nt.				7·5	7·6	7·3	7·0*	6·9	5·8													

529. Richmond (Kew Observatory). February, 1931.

Day.	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the weather of the Day.
	7^h	13^h	18^h	7^h	9^h	13^h	15^h	18^h	21^h	7^h	9^h	13^h	15^h	18^h	21^h	7^h	9^h	13^h	15^h	18^h	21^h	
1	St-Cu : Ci : Ci-St.	Nb.	St.	7	9	10	–	10	10	i	E	E	–	G	i	...	...	●°	–	...	...	●° early *a* : d ●° f *a, p.*
2	St-Cu : Ci.	A-Cu : Ci.	St : A-Cu.	3	3	3	6	9	10	G	D	F	G	F	G	...	...	...	...	...	●°	⊔ early *a* : f 9^h : z *a, p* : ●° ● *n.*
3	Nb : Fr-Nb : A-St.	Fr-St : St-Cu.	St-Cu.	10	10	10	9	10	10	G	G	H	H	H	G	●	...	●°	...	...	...	● ●° early *a* : d ●° *a* : p ●° *p.*
4	Fr-St : A-St.	Cu : A-Cu.	St.	10	10	9	10	9	9	G	G	H	G	G	G	●	⊛°	...	...	...	...	Ma-Cu. 14^h–16^h 40^m : ✱° *n.*
5	St : A-St.	A-Cu.	Ci-St.	10	10	9	9	1	10	G	F	F	F	F	F	...	...	...	...	...	...	⊔ early *a* : m or z *a, p, n.*
6	St-Cu : A-St.	St.	St.	9	10	10	10	10	10	i	G	H	G	G	F	...	⊛°	...	...	...	...	●° *a* : ●° ● m *n.*
7	Nb.	Cu.	St.	10	10	9	9	10	10	F	E	F	G	D	B	●°	...	...	...	...	...	●° m early *a* : f 9^h : m 13^h : f ⊔ *n.*
8	St-Cu : A-St : A-Cu.	Cu : A-St : A-Cu.	St : St-Cu.	8	10	9	–	10	10	E	G	G	–	G	G	...	...	...	–	...	●°	⊔ f early *a* : ●° *n.*
9	St : St-Cu.	St-Cu : A-St.	St : St-Cu.	10	10	10	10	10	10	G	H	H	G	G	G	...	●°	...	...	...	...	●° early *a, a.*
10	Nb.	St-Cu : A-Cu.	—	10	10	9	4	0	0	J	H	K	K	J	J	●°	●	...	...	...	...	⅃(gusts) early *a, a, p* : ● *a* : ●² 9^h 5^m. [⊕ 13^h.
11	A-St : Ci : Ci-St.	Fr-St : A-Cu : Ci-St.	Fr-Nb : A-St.	9	8	9	10	10	2	K	H	J	H	J	J	...	...	...	●	●°	...	⊔ early *a* : ⅃ (gusts) *a, p, n* : ●° *p, n* :
12	St-Cu : Cu.	St-Cu : Cu.	A-Cu.	1	3	9	9	1	0	K	K	I	K	H	J	...	...	...	...	...	...	⅃ (gusts) early *a.*
13	Nb : St-Cu : A-St.	St-Cu : Cu : A-St.	St-Cu : Cu.	9	7	9	3	7	2	H	J	J	J	i	i	●°	...	...	...	...	...	⅃ (gust) 8^h 50^m : ✱° 10^h 5^m.
14	A-St.	Cu.	A-St.	1	1	3	1	1	0	i	i	i	H	F	F	...	...	...	...	...	...	⊔ early *a, n* : m *n.*
15	Nb.	St-Cu : Ci : Ci-St.	St-Cu : A-Cu.	10	9	1	–	6	3	i	F	G	–	G	J	⊛	...	...	–	...	...	⊛ early *a* : m 9^h.
16	St : St-Cu.	St-Cu : Cu.	Nb.	10	9	6	10	10	7	K	i	J	i	G	G	...	●	...	✱°	⊛	...	⅃ (gust) *a* : ⊛ *p, n.*
17	St : St-Cu : A-Cu : Ci-St.	St.	A-St : Ci-St.	8	10	10	5	4	1	G	F	G	G	F	G	...	✱°	...	...	...	...	⊔ early *a* : ✱° m *a* : ⊔ *n.*
18	St-Cu.	St-Cu : A-St.	Nb : Fr-Nb : A-St.	10	10	10	10	10	10	i	G	i	G	G	J	...	⊛	...	●°	●°	✱	⊔ early *a* : ⊛ *a* : ●° ⅃ (gusts) *p* : ●° ✱° *n.*
19	A-Cu.	St-Cu.	St.	10	5	8	4	10	10	G	G	F	H	E	A	...	...	...	...	...	...	●° early *a* : z 13^h : f *n.*
20	A-Cu : A-St : Ci-St.	St-Cu : A-Cu.	Fr-Nb : St : A-St.	8	10	10	10	10	10	G	H	i	H	H	G	...	...	...	●°	...	...	⊔ early *a* : p ●° *p.*
21	Nb : St-Cu.	Cu : Fr-Cu.	Cu.	10	7	4	3	1	0	i	H	J	K	G	G	●°	...	...	...	...	...	
22	A-Cu : Ci : Ci-St.	Cu : St-Cu.	Cu : St-Cu : Ci : Ci-St.	2	2	4	–	4	1	i	F	i	–	F	G	...	...	...	–	...	...	⊔ early *a, n* : m 9^h, 18^h.
23	A-Cu : Ci.	Cu : Ci-St.	St-Cu : A-Cu : Ci.	9	9	8	8	5	1	i	G	i	H	G	G	...	...	...	...	...	...	p ●° *p.*
24	St : A-St.	Cu : Ci-St.	Cu : A-Cu : Ci.	10	10	5	9	9	9	E	D	i	i	G	i	...	...	...	...	...	...	⊔ f early *a.*
25	St.	St-Cu.	St-Cu.	10	10	9	10	10	10	i	H	i	i	H	J	...	...	...	...	...	...	p ●° *a.*
26	St-Cu.	Nb.	St-Cu.	10	10	10	10	10	9	K	K	G	i	G	i	...	...	●	...	...	...	● *a* : Ⓣ 21^h–23^h.
27	A-Cu : Ci-St : Ci-Cu.	St-Cu : A-St.	Nb.	8	8	10	10	10	10	G	G	i	H	H	H	...	...	...	...	●°	●	⊔ early *a* : ●° *p* : ● *n.* [(gusts) *p, n.*
28	St : Fr-St : A-St.	Cu : Cu-Nb : A-St : Ci.	St-Cu : Cu-Nb.	10	10	9	6	7	9	G	H	H	i	H	J	...	...	...	...	...	✱°	●° ● early *a* : ⊛ *a* : p ⊛ △ *p* : ⅃
Mean Cloud Am'nt.				8·3	8·2	7·9	7·7†	7·3	6·2													
	7^h	13^h	18^h	7^h	9^h	13^h	15^h	18^h	21^h	7^h	9^h	13^h	15^h	18^h	21^h	7^h	9^h	13^h	15^h	18^h	21^h	
Day.	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the weather of the Day.

Note.—Observations are not taken at 15h. on Sundays, Good Friday and Christmas Day.
* Mean of 27 days. † Mean of 24 days.

530. Richmond (Kew Observatory). **March, 1931.**

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	Nb : Cu-Nb : A-Cu.	Cu : St-Cu.	Cu-Nb:St-Cu:Ci-St.	7	2	8	–	8	7	i	H	i	–	i	G	✱^{0}	...	...	–	...	...	✱ early *a* : Ш (gusts) *p* : p ✱^{0} *p*.
2	A-Cu : Ci-St : Ci.	St-Cu.	A-St : Ci : Ci-Cu.	9	9	8	7	6	0	G	G	i	H	G	E	...	...	...	...	...	...	⊔ early *a* : f ⊔ *n*.
3	St-Cu.	A-Cu.	A-St.	9	8	9	10	10	10	E	D	i	G	G	F	...	...	...	...	...	●^{0}	f ⊔ early *a* : ●^{0} m *n*.
4	A-St.	St-Cu : Ci : Ci-St.	St-Cu : St : A-Cu.	10	9	9	8	9	10	G	G	H	H	G	G	...	...	...	...	...	...	●^{0} early *a* : Ш (gusts) *a*.
5	A-St : A-Cu : Ci : Ci-Cu.	A-Cu : Ci : Ci-St.	A-Cu : Ci-Cu.	8	9	9	9	8	9	G	G	G	G	G	G	...	...	...	...	...	...	
6	St-Cu : St : A-St.	Ci:St-Cu:A-Cu:A-St.	St-Cu : A-Cu : A-St.	10	10	10	9	9	4	i	H	i	H	G	J	...	...	...	...	...	...	Ш (gusts) *a p n* : p ✱^{0} *p n*.
7	St-Cu.	Cu : St-Cu.	Cu : St : Ci-St.	9	9	7	7	8	8	i	i	G	G	G	i	...	✱^{0}	...	...	...	...	Ш (gusts) early *a*, *a p n* : p ✱^{0} *a*.
8	St-Cu.	St-Cu.	St : Fr-Cu.	9	7	9	–	6	0	K	G	i	–	G	G	...	✱	...	–	...	...	Ш early *a*. *a* : ✱ *a*.
9	St : St-Cu : Ci.	Nb.	Cu-Nb : St : Ci.	8	9	10	4	4	0	i	H	D	F	G	G	...	...	✱	...	...	...	✱ early *a* : p ✱ *a* : ✱ f g 12^h–13^h : ✱ *n*.
10	St : St-Cu.	St-Cu : Cu : Ci.	St-Cu : Ci.	9	9	9	9	2	0	G	H	H	H	F	G	...	...	...	...	...	...	⊔ early *a* : p ✱ *a p* : [✱].
11	A-Cu.	St-Cu.	St-Cu.	1	4	9	9	9	8	i	i	i	H	G	G	...	...	...	...	...	...	[✱] early *a*, *a*.
12	St-Cu : Cu : A-Cu	Fr-Cu.	Ci.	6	0	4	1	1	0	G	G	i	i	H	E	...	...	...	...	...	...	f ⊔ *n*.
13	Ci-St.	Cu : St-Cu : Ci.	St-Cu.	7	1	6	6	9	2	D	E	J	i	G	J	...	...	...	...	...	...	f ⊔ early *a*.
14	St-Cu.	Fr-Cu : Cu : St-Cu.	Fr-Cu : St-Cu : Ci.	8	2	4	5	7	1	J	H	K	K	i	G	...	...	...	...	...	...	
15	St.	Fr-Cu : Cu : Ci.	St-Cu : Ci.	10	10	10	–	4	0	B	B	J	–	F	F	...	...	...	–	...	...	f ⊔ early *a* : z, m *n*.
16	Fr-St : A-St.	Ci : Ci-St.	St : Cu : Ci.	10	9	9	10	8	3	G	G	H	G	G	G	...	...	...	...	...	...	⊕ 9^h–15^h : Ш (gust) *p*.
17	St-Cu : A-Cu.	A-Cu.	—	7	2	3	1	0	0	G	F	G	G	F	F	...	...	...	...	...	...	z 9^h, *n*.
18	Ci.	—	St-Cu : A-Cu : Ci-Cu.	2	1	0	3	7	8	F	F	H	i	G	G	...	...	...	...	...	...	⊔ z early *a* : ●^{0} 18^h 45^m.
19	St.	Fr-Cu : Ci : Ci-St.	A-Cu : Ci : Ci-St.	10	1	9	9	9	6	B	F	K	J	H	G	...	...	...	...	...	...	fe early *a* : m 9^h : ⊕ 14^h 30^m–15^h 30^m.
20	St-Cu : St : A-St.	Fr-Cu : Ci.	A-Cu : Ci.	9	9	4	8	9	9	G	i	K	K	K	J	...	...	...	...	...	...	⌓ early *a* : p ●^{0} 9^h 10^m : ⊕ 17^h.
21	St-Cu : A-St.	St-Cu.	Cu : Ci : Ci-St.	9	5	10	9	3	2	K	J	J	J	J	J	...	...	...	...	...	...	⌓ early *a* : ●^{0} *p*, *n*.
22	St : St-Cu.	Cu : St-Cu : Ci-St.	Cu : Nb : A-Cu : A-St.	9	9	7	–	8	9	J	i	l	–	G	i	...	...	...	–	●^{0}	●^{0}	●^{0} early *a* : z *a*, *p*.
23	St.	St : A-Cu.	Cu : St-Cu : Ci.	10	10	9	6	8	0	F	F	F	F	F	G	...	...	...	...	...	...	●^{0} *a*, *p*.
24	St-Cu : St : A-Cu.	St-Cu.	St-Cu : St.	9	10	10	10	10	10	i	i	i	H	G	i	...	●^{0}	...	...	...	...	z *a*, *p*.
25	St.	—	—	10	10	0	0	0	5	G	F	F	G	F	G	...	...	...	...	...	...	
26	A-St.	—	—	10	10	0	0	0	0	G	F	G	G	F	F	...	...	...	...	...	...	z *a*, *p*.
27	St.	Ci.	Ci.	10	10	1	7	7	9	B	C	G	i	H	G	...	...	...	...	...	...	f ⊔ early *a*.
28	Ci : Ci-St.	A-Cu : A-St.	St.	9	5	9	10	10	10	G	F	G	F	G	i	...	...	...	...	...	...	⌓ ⊕ early *a* : m 9^h : z 15^h.
29	Cu : A-St : A-Cu.	A-St.	St : St-Cu : A-St.	9	10	10	–	10	10	l	i	i	–	G	G	...	...	...	–	...	...	
30	A-St : A-Cu.	A-St : A-Cu.	St : St-Cu : A-Cu.	10	10	10	9	9	7	i	H	J	H	G	G	...	...	...	...	...	...	
31	St-Cu : A-Cu : Ci-St.	Ci.	Ci.	7	3	4	0	6	1	G	J	J	G	G	G	...	...	...	...	...	...	⊍ *n*.
Mean Cloud Am'nt.				8·4	6·8	7·0	*6·4	6·6	4·8													

531. Richmond (Kew Observatory). **April, 1931.**

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	Ci.	Ci : Ci-St : Ci-Cu.	A-St.	5	5	9	9	10	10	G	i	J	H	G	G	...	...	...	...	...	...	⊔ early *a* : ⊕ 11^h–12^h 30^m : ●^{0} *n*.
2	Nb : Fr-Nb : A-St.	A-St.	Nb.	10	10	10	10	10	10	G	F	G	F	E	D	...	...	●^{0}	...	●^{0}	●	● early *a* : m d ●^{0} *a* : ●^{0} *p n* : z *p* : f ● *n*.
3	Nb.	Nb.	Nb.	10	10	10	–	10	10	G	G	G	–	G	G	●^{0}	...	●^{0}	–	●^{0}	●	●^{0} ● early *a*, *a*, *p*, *n*.
4	A-Cu.	Cu : Ci.	St-Cu : Ci : Ci-St.	1	1	2	3	7	1	i	H	J	J	i	i	...	...	...	...	...	...	
5	Fr-Nb : A-St : Ci-St.	Nb : Cu : St-Cu.	St-Cu : Mm-Cu : A-Cu.	9	10	10	–	9	4	l	J	i	–	G	G	●^{0}	●^{0}	●^{0}	–	...	...	●^{0} *a*, *p*.
6	Nb.	St.	Nb.	10	10	10	10	10	10	E	F	F	H	H	J	●^{0}	...	...	●^{0}	●^{0}	...	● ●^{0} early *a* : m z *a* : ●^{0} *p*.
7	St.	St.	St : St-Cu.	10	10	10	10	10	10	G	F	G	G	G	F	...	...	...	...	...	...	m 9^h, 21^h.
8	St-Cu.	Cu : Fr-Cu : A-Cu.	St-Cu : A-Cu : Ci-Cu.	7	9	7	7	8	5	G	G	i	K	K	J	...	...	...	...	...	...	
9	St.	Nb : St-Cu : A-St.	St-Cu : Nb : A-St.	10	10	10	10	10	10	F	H	K	K	H	G	...	...	●^{0}	...	...	●^{0}	⌓ m early *a* : ●^{0} *a* : ●^{0} d *n*.
10	St.	St-Cu.	Ci.	10	2	1	7	9	2	G	H	i	J	J	G	...	...	...	...	...	...	⌓ early *a*.
11	St.	Ci.	Ci.	10	5	5	2	3	0	B	G	i	J	J	J	...	...	...	...	...	...	f ⌓ early *a*.
12	A-Cu : Ci-Cu.	A-Cu : Ci : Ci-Cu.	Nb : A-St.	2	1	3	–	10	7	i	J	K	–	G	J	...	...	...	–	●^{0}	...	⊔ early *a* : p ●^{0} *p*.
13	Cu : St-Cu.	Cu : Fr-Cu : Ci.	Cu : Ci-St : Ci.	2	2	8	8	6	0	J	J	K	J	i	J	...	...	...	...	...	...	⌓ early *a*.
14	St-Cu : St.	St-Cu.	St-Cu : A-Cu : Ci-St.	10	10	10	9	8	9	J	i	i	i	H	G	...	...	...	...	...	...	⌓ early *a*.
15	St : St-Cu.	Fr-Cu : St-Cu.	Cu-Nb : St-Cu.	10	10	10	10	10	7	i	H	i	i	G	i	...	...	...	...	●^{0}	...	●^{0} ● *n*.
16	Fr-St : Nb : A-St.	St-Cu.	St-Cu : A-St.	10	9	10	9	10	10	i	H	H	H	i	i	●^{0}	...	...	...	...	...	⊕ 16^h 30^m–17^h.
17	Nb : A-St.	Nb : Cu-Nb : Cu.	Cu : St-Cu : Nb.	10	7	8	6	9	10	K	K	K	K	K	J	●^{0}	...	●	...	●	...	● ●^{0} early *a* : Ш (gusts) *a p* : p ● q *a p* : ● ✱ *n*.
18	St-Cu.	Cu-Nb : Cu.	Nb : Fr-Nb : A-St.	9	10	8	7	10	10	J	i	i	G	G	i	...	...	...	...	●^{0}	●^{0}	✱ ● early *a* : p ● ▲ Ш (gusts) *p* : ●^{0} *n*.
19	St : St-Cu.	Nb : Cu : A-St.	Nb.	6	10	10	–	10	10	i	G	G	–	G	i	...	●	●	–	●	●^{0}	● ●^{0} early *a* : Ш (gusts) *a* : ● ●^{0} *a p n*.
20	Nb.	Nb : St : St-Cu.	Cu : Nb : A-Cu.	10	10	10	10	8	3	i	i	i	G	G	G	●^{0}	●^{0}	●^{0}	●^{0}	● ▲^{0}	...	●^{0} early *a*, *a*, *p* : Ш (gusts) *a* : p ● ▲ 18^h.
21	St : St-Cu : A-Cu.	St-Cu.	St-Cu.	9	9	9	9	9	10	G	i	i	i	i	G	...	...	...	...	...	...	
22	—	Cu : St-Cu.	St-Cu : Cu-Nb : A-Cu.	0	0	8	6	7	6	G	i	K	K	i	G	...	...	...	...	...	...	⌓ early *a* : p ●^{0} *p*.
23	St-Cu.	Cu : Ci.	Cu : St-Cu : Ci.	8	9	8	6	8	10	G	K	K	K	l	J	...	...	...	...	...	●^{0}	● *a* : p ● ▲ *a* : ⊕ *p*.
24	St-Cu : Ci : Ci-St.	Cu : Fr-Cu.	Nb : A-St.	8	9	9	9	10	10	j	K	K	J	H	i	...	...	...	●^{0}	●^{0}	...	p ●^{0} early *a*, *p* : ●^{0} *p*, *n*.
25	St : St-Cu.	Nb : St-Cu.	Nb : St-Cu : A-Cu : Ci.	10	10	9	10	9	4	J	H	K	J	J	J	...	●	●^{0}	...	●^{0}	...	●^{0} early *a*, *a* : p ●^{0} *p* : ⌒ 18^h p ● *n*.
26	Cu : St-Cu.	Nb : Cu : A-St.	Cu : St-Cu : A-St.	9	8	10	–	9	9	K	K	J	–	J	J	...	...	●	–	...	●^{0}	p ●^{0} early *a* : p ● ●^{2} *a* : p ● ●^{0} *p*, *n* : ⌒ 18^h 30^m.
27	St : St-Cu.	Fr-Nb : Fr-Cu : St-Cu.	Cu-Nb : St-Cu : Ci-St.	10	9	10	10	3	2	i	i	K	K	J	J	...	...	●^{0}	...	...	...	p ●^{0} ● early *a*, *p*.
28	St-Cu : A-Cu : Ci-St.	Cu : St-Cu : A-St.	St-Cu : A-St : Ci-St.	9	9	10	10	9	9	i	K	J	i	i	i	...	...	...	●^{0}	...	...	⊕ 7^h, p ●^{0} *p*.
29	St.	St-Cu.	St-Cu : St : A-Cu.	10	10	10	7	7	8	G	H	i	i	i	F	...	...	...	...	...	...	⌓ early *a* : m *n*.
30	A-Cu.	Cu : St-Cu.	Ci.	2	0	8	9	1	1	F	H	J	K	K	J	...	...	...	...	...	...	f ⊔ early *a*.
Mean Cloud Am'nt.				7·9	7·5	8·4	†8·1	8·3	6·9													

* Mean of 26 days. † Mean of 25 days.

532. Richmond (Kew Observatory). May, 1931.

Day.	Cloud Forms. 7^h	Cloud Forms. 13^h	Cloud Forms. 18^h	Cloud Amount (All Forms). 7^h	9^h	13^h	15^h	18^h	21^h	Visibility. 7^h	9^h	13^h	15^h	18^h	21^h	Precipitation. 7^h	9^h	13^h	15^h	18^h	21^h	Remarks on the Weather of the Day.
1	St-Cu : A-St.	Cu : St-Cu : Ci : Ci-St.	St-Cu : A-Cu.	10	9	9	9	10	10	G	H	K	J	i	i	…	…	…	…	…	●^{0}	⌓ early *a*.
2	—	St-Cu.	St-Cu : A-Cu : Ci.	0	1	9	9	9	9	E	G	H	G	G	G	…	…	…	…	…	…	f ⌓ early *a*.
3	St-Cu : A-St : Ci-St.	Nb : A-St.	Nb.	9	10	10	–	10	10	i	i	i	–	G	i	…	…	●^{0}	–	●	●	⊕ ⌓ early *a* : ● *a, p, n*.
4	Ci : Ci-St.	Cu : Ci-St.	Cu : St-Cu : A-Cu.	6	8	9	9	7	6	G	J	K	K	K	J	…	…	…	…	…	…	⊕ 9^h, 13^h : ш (gust) *p* : p ●^{0} *n*.
5	St-Cu : A-Cu.	Cu : St-Cu : A-Cu.	Cu.	7	6	9	8	3	1	i	K	l	l	l	i	…	…	…	…	…	…	●^{0} ● early *a* : ш (gusts) *a, p* : p ●^{0} *p* : ⌓ *n*.
6	Ci : Ci-St.	Cu : Ci-St.	Cu : Ci : Ci-St.	6	9	9	8	5	4	H	K	K	K	G	G	…	…	…	…	…	…	p ●^{0} early *a* : ⊕ 7^h–15^h 30^m.
7	Fr-Cu : A-St.	Cu : St-Cu.	Cu : St-Cu.	1	6	9	9	3	1	K	K	l	K	K	J	…	…	…	…	…	…	⌓ early *a*.
8	Nb.	Cu : St-Cu.	St-Cu : Ci.	10	10	9	9	8	7	G	F	K	i	i	i	●^{0}	●^{0}	…	…	…	…	●^{0} ● early *a* : d ●^{0} *a*.
9	Cu : St-Cu : A-Cu.	—	Ci.	3	4	0	1	1	0	i	J	K	J	J	G	…	…	…	…	…	…	
10	A-Cu : Ci-St : Ci-Cu.	A-St : A-Cu : Ci-St.	A-St.	9	7	10	–	10	10	J	J	J	–	J	J	…	…	…	–	…	…	⌓ early *a, n*.
11	St-Cu : A-St : A-Cu.	Cu : St-Cu : Ci.	Cu : Nb : A-St : A-Cu.	9	9	9	9	9	7	i	J	K	K	K	J	…	…	…	…	…	…	p ●^{0} early *a, p*.
12	Cu : St-Cu : A-Cu.	Cu : St-Cu.	Cu : St-Cu : Ci.	7	9	9	7	3	1	K	K	K	K	K	K	…	…	…	…	…	…	p ●^{0} early *a*.
13	St-Cu : Cu : A-Cu : Ci.	Fr-Cu : Ci-Cu.	Cu : A-Cu : Ci-St : Ci.	7	9	4	9	8	4	J	J	K	K	K	J	…	…	…	…	…	…	⌓ early *a* : ⊕ *p*.
14	Cu : St-Cu : A-Cu.	Cu : Ci : Ci-St.	St-Cu : A-St.	4	9	9	8	10	9	K	K	l	l	K	K	…	…	…	…	…	…	⊕ *a, p*.
15	St : St-Cu : A-St : Ci-St.	St-Cu : Nb : A-St.	St-Cu : Nb.	9	10	10	10	9	10	J	J	K	H	i	J	…	●^{0}	●^{0}	●	…	●^{0}	●^{0} *a* : ●^{0} ● *p* : d ●^{0} *n*.
16	St : St-Cu.	Fr-Nb : A-St.	A-St.	10	10	10	10	10	10	J	K	i	H	G	F	…	…	●^{0}	●^{0}	●^{0}	●^{0}	●^{0} *p, n* : m *n*.
17	Nb.	St : St-Cu.	St : Nb : A-St.	10	10	10	–	10	10	G	G	G	–	G	i	●^{0}	●^{0}	…	–	…	…	●^{0} early *a, a* : g 13^h : p ● *p* : d ● *n*.
18	Nb.	St : Cu : St-Cu.	St-Cu : St : A-St.	10	10	9	10	10	9	G	H	i	H	G	G	●^{0}	…	…	…	…	…	u 15^h.
19	St : St-Cu : A-Cu.	St-Cu.	St-Cu.	8	10	9	10	10	9	J	i	J	i	i	i	…	…	…	…	…	…	
20	Cu : A-St.	St.-Cu.	St-Cu.	10	10	10	9	9	8	i	i	i	J	J	i	…	…	…	…	…	…	
21	Cu : Fr-Cu.	St-Cu : A-Cu.	St : St-Cu.	4	2	7	10	10	10	G	i	i	H	G	G	…	…	…	…	…	●^{0}	●^{0} ● *n*.
22	St : A-St.	Cu : St-Cu.	Cu : St-Cu : Ci.	10	10	9	7	6	1	G	i	K	K	l	i	…	…	…	…	…	…	● ●^{0} early *a* : ●^{0} 10^h : ⌓ *n*.
23	A-St : Ci-St.	Nb : A-St.	St : St-Cu : A-St.	9	9	10	10	10	8	i	K	G	G	G	G	…	…	●^{0}	●	…	…	⌓ early *a* : ● *p* : K 17^h 15^m : ⋓ 21^h.
24	St.	Cu : St-Cu : A-Cu.	Cu : St-Cu.	10	10	7	–	9	4	D	G	K	–	K	K	…	…	…	–	…	…	f ⌓ early *a* : ● ●^{0} *a* : ⋓ 21^h.
25	Cu : St-Cu : A-Cu.	Fr-Cu.	A-Cu : Ci-Cu.	1	4	1	1	6	9	J	K	l	m	m	l	…	…	…	…	…	…	⌓ early *a* : () *p* : ● *n*.
26	Cu : St-Cu.	Cu : Ci.	Cu : A-Cu.	5	1	6	8	8	9	G	i	K	K	J	G	…	…	…	…	…	…	●^{0} early *a*.
27	A-Cu.	Ci.	A-Cu : Ci : Ci-St.	9	0	8	8	8	10	G	G	J	K	J	i	…	…	…	…	…	…	⌓ early *a* : ⊕ 10^h 30^m–12^h.
28	Nb.	St-Cu.	Fr-Cu.	10	10	10	6	1	0	F	G	K	K	m	K	●^{2}	…	…	…	…	…	●^{0} ● K early *a* : K ●^{2} m 7^h : () 18^h.
29	St-Cu : A-Cu : Ci-St.	Nb : A-St.	Cu : A-Cu.	5	9	10	8	1	2	G	K	K	l	m	J	…	…	●	…	…	…	⌓ early *a* : p ●^{2} *a p* : () 18^h.
30	St-Cu : Ci.	Cu : Fr-Cu : St-Cu.	St-Cu : A-Cu.	5	5	10	10	9	8	K	K	K	J	K	J	…	…	…	●^{0}	…	…	p ●^{0} *p*.
31	St-Cu : Ci : Ci-St.	Cu : St-Cu : Ci.	Cu : St-Cu : Ci-St.	2	8	9	–	7	3	K	K	K	–	K	K	…	…	…	–	…	…	⌓ early *a*.
Mean Cloud Am'nt.				6·9	7·5	8·4	8·2*	7·4	6·4													

533. Richmond (Kew Observatory). June, 1931.

Day.	Cloud Forms. 7^h	Cloud Forms. 13^h	Cloud Forms. 18^h	Cloud Amount (All Forms). 7^h	9^h	13^h	15^h	18^h	21^h	Visibility. 7^h	9^h	13^h	15^h	18^h	21^h	Precipitation. 7^h	9^h	13^h	15^h	18^h	21^h	Remarks on the Weather of the Day.
1	Cu : Nb.	Nb : Cu : St-Cu.	Cu : Nb : A-Cu : Ci.	9	9	9	7	7	6	J	i	J	K	J	i	…	…	●	…	…	…	●^{0} early *a* : ⌒ 7^h : p ● ●^{0} *a, p* : ⊤ ⌒ *p*.
2	Cu : St-Cu : Ci : Ci-St.	Cu : Fr-Cu : Ci-Cu.	Cu : St-Cu : A-St.	6	9	7	7	10	9	G	H	J	K	J	K	…	…	…	…	…	…	⌓ early *a*.
3	St-Cu.	St-Cu.	Cu : Ci : Ci-St.	10	9	9	5	2	6	K	K	K	K	K	G	…	…	…	…	…	…	
4	St : A-Cu : A-St.	Fr-Cu.	Ci.	8	1	3	1	1	3	G	H	i	i	J	G	…	…	…	…	…	…	
5	St : A-St.	St-Cu : A-Cu : Ci.	Nb.	10	8	8	10	10	10	i	i	J	i	G	i	…	…	…	●	●	…	ш (gusts) *a, p* : ●^{2} K *p* : ●^{0} *n*.
6	St-Cu : Ci-St.	Cu : A-Cu : Ci.	Cu : A-Cu : Ci : Ci-St.	9	9	7	2	8	9	J	l	m	l	K	K	…	…	…	…	…	…	●^{0} ● early *a* : () 13^h.
7	Cu : St-Cu : Ci.	Cu : Cu-Nb : Ci-St.	St : St-Cu : Nb.	9	10	9	–	10	10	K	J	K	–	J	G	…	…	…	–	…	●^{0}	⌓ early *a* : ⊕ 7^h : p ● *a* : d ●^{0} *n*.
8	St-Cu : St.	Cu : St-Cu.	Cu : A-Cu : Ci-St.	10	9	9	8	7	7	K	K	l	K	K	K	…	…	…	…	…	…	
9	Nb.	St-Cu.	St-Cu : Fr-Cu : Ci.	10	10	9	9	9	10	G	i	K	K	K	J	●	●^{0}	…	…	…	…	● ●^{0} early *a*.
10	St-Cu : A-St.	St.	Fr-Nb : A-St.	10	10	10	10	10	9	J	i	J	J	J	J	…	…	…	…	●^{0}	…	●^{0} ш (gusts) *a* : p ●^{0} *p*.
11	Cu : A-Cu : Ci.	St-Cu : A-Cu.	St : St-Cu : A-St.	8	10	9	10	10	10	J	J	K	K	K	K	…	…	…	…	…	…	
12	St : St-Cu : A-St.	Cu : St-Cu.	Cu : St-Cu.	10	9	8	6	2	1	J	J	K	l	l	K	…	…	…	…	…	…	
13	A-Cu : Ci.	Cu : Ci.	St-Cu : A-St.	6	8	3	3	10	10	i	J	J	J	J	K	…	…	…	…	…	…	⌓ early *a*.
14	Ci : Ci-St.	A-St : A-Cu.	Cu : Fr-Cu : A-Cu.	7	10	8	–	3	6	G	G	G	–	l	l	…	●^{0}	…	–	…	…	⊤ 12^h : k q 13^h 50^m : ш (gusts) *p*.
15	Cu : Ci.	Cu : St-Cu.	Cu : Ci : Ci-St.	1	6	7	9	4	8	l	K	m	K	K	K	…	…	…	…	…	…	() 13^h.
16	Cu : A-Cu : Ci-St.	Cu : A-Cu : Ci-St.	Cu : St-Cu : Ci : Ci-Cu	7	9	9	10	5	9	K	K	l	l	l	K	…	…	…	…	…	…	
17	Nb.	Cu : Cu-Nb : Ci : Ci-St.	Cu : St-Cu : Ci-St.	10	10	7	9	10	4	G	K	l	m	l	K	●	…	…	…	…	…	● early *a* : p ● *a* : () 15^h.
18	Cu : St-Cu.	Nb : St-Cu : Cu.	Cu : St-Cu : Ci.	9	9	10	9	6	9	K	K	K	K	K	K	…	…	…	…	…	…	⌓ early *a* : p ● *p*.
19	St-Cu : Cu : A-Cu.	Cu : St-Cu : A-Cu.	Cu-Nb : Cu : A-St.	9	9	9	8	9	5	K	J	l	m	i	G	…	●	…	…	●	…	p ● early *a* : ⊤ 9^h : ● ●^{2} *a* : () 15^h : K p ● *p*.
20	St : St-Cu.	Cu : St-Cu : A-Cu.	Cu : A-Cu.	9	10	9	7	7	1	i	J	J	K	K	G	…	…	…	…	…	…	⌓ early *a, n*.
21	A-Cu : Ci-St.	Cu : St-Cu.	Cu : A-Cu : Ci.	9	9	9	–	7	9	K	K	K	–	K	K	…	…	…	–	…	…	⌓ early *a*.
22	St.	Cu : Fr-Cu : Ci.	St-Cu : Cu.	10	2	7	9	3	9	i	J	K	K	K	i	…	…	…	…	…	…	⌓ early *a*.
23	A-Cu : A-St.	Cu : A-Cu.	Cu : St-Cu : A-Cu.	9	10	9	7	9	9	i	J	J	K	K	i	…	…	…	…	…	…	⌓ early *a*.
24	St-Cu : A-St : A-Cu.	St.	St-Cu.	9	10	10	10	9	7	i	i	J	J	J	J	…	●^{0}	…	…	…	…	● ●^{0} early *a, a*.
25	A-Cu.	St-Cu.	St-Cu : Cu.	9	9	10	10	8	9	i	J	K	J	J	K	…	…	…	…	…	…	⌓ early *a* : g *n*.
26	—	Cu.	St-Cu : Fr-Cu.	0	2	5	5	2	1	G	H	J	K	K	i	…	…	…	…	…	…	⌓^{2} early *a*.
27	Ci.	—	—	1	0	0	0	0	0	i	J	J	J	J	J	…	…	…	…	…	…	⌓ early *a, n*.
28	St.	St-Cu : Cu.	Cu.	10	9	6	–	0	0	G	J	K	–	l	K	…	…	…	–	…	…	⌓ early *a*.
29	A-Cu.	Fr-Cu : St-Cu.	Cu.	1	1	5	3	3	6	J	J	K	K	J	i	…	…	…	…	…	…	
30	A-Cu.	Fr-Cu : Ci.	Cu : St-Cu.	8	2	7	8	9	4	G	H	J	H	i	J	…	…	…	…	…	…	
Mean Cloud Am'nt.				7·8	7·6	7·6	7·0†	6·3	6·5													

* Mean of 27 days. † Mean of 25 days.

534. Richmond (Kew Observatory). July, 1931.

Day.	Cloud Forms. 7^h	Cloud Forms. 13^h	Cloud Forms. 18^h	Cloud Amount (All Forms). 7^h	9^h	13^h	15^h	18^h	21^h	Visibility. 7^h	9^h	13^h	15^h	18^h	21^h	Precipitation. 7^h	9^h	13^h	15^h	18^h	21^h	Remarks on the Weather of the Day.
1	—	Cu : Fr-Cu.	Cu.	0	0	6	8	8	1	G	H	i	i	i	H	...	...	...	...	...	...	⌓ early *a*.
2	A-St : A-Cu.	St-Cu.	St-Cu : Ci.	9	10	10	10	7	1	l	K	K	K	K	J	...	...	...	...	...	...	p ●^{0} *a*.
3	St-Cu : Ci.	Ci.	Ci.	1	8	1	1	1	1	K	K	K	K	K	J	...	...	...	...	...	...	⌓ early *a*.
4	St : St-Cu.	St-Cu.	St : St-Cu.	10	9	10	10	10	9	J	K	K	K	K	K	...	...	...	...	...	...	
5	Fr-St : St-Cu.	Cu : St-Cu : A-Cu.	Fr-Cu : St-Cu : A-St.	9	10	9	–	9	9	K	i	m	–	K	K	...	●^{0}	...	–	●^{0}	...	d ●^{0} ● *a* : () 13^h.
6	Nb : A-St : A-Cu.	Cu : St-Cu : A-Cu.	Cu.	9	9	7	5	2	1	i	i	K	m	m	K	●^{0}	...	...	...	...	...	● early *a* : () *p*.
7	St-Cu : A-Cu : Ci.	Cu : St-Cu : A-Cu.	Cu : Ci-St.	7	7	6	5	6	9	i	K	K	l	l	J	...	...	...	...	...	...	
8	A-Cu : Ci-St.	Cu : St-Cu : A-Cu.	Cu : St-Cu : A-Cu.	5	8	9	9	9	10	i	J	l	K	K	J	...	...	...	...	...	...	u *p*.
9	Cu : A-Cu : Ci-Cu.	Cu : A-Cu : Ci.	Cu : St-Cu : A-Cu.	3	6	7	9	7	2	l	l	l	l	l	K	...	...	...	...	...	...	p ●^{0} *p*.
10	St : Nb : A-St.	Nb : St-Cu.	St-Cu : A-Cu.	10	9	10	9	3	2	K	J	K	K	l	K	...	...	●^{0}	...	...	...	p ●^{0} early *a*, *a*, *p*.
11	St-Cu : A-St.	Cu : Ci.	Cu : Ci.	9	9	6	7	3	2	K	K	l	K	K	K	...	...	...	...	...	...	⊕ 12^h.
12	St-Cu : A-St.	Cu : St-Cu : A-Cu.	Cu : A-Cu : Ci-Cu.	10	10	9	–	5	3	K	K	K	–	m	m	...	...	...	–	...	...	●^{0} *a* : () *p*, *n*.
13	St-Cu : A-Cu.	Nb : Cu : Ci.	St-Cu : Ci : Ci-St.	4	8	9	9	7	6	K	J	K	l	l	K	...	...	●^{0}	...	...	...	p ●^{0} early *a*, *a*, *p* : ⊕ 18^h.
14	Cu : Ci : C-St.	Cu : St-Cu : Ci : Ci-St.	Fr-Nb : A-St.	7	9	9	9	10	10	K	J	K	K	J	i	...	●^{0}	...	...	●	●	p ●^{0} *a*, *p* : ⊕ 12^h 30^m : ● ●^{2} *p*, *n*
15	Nb : A-St.	Fr-Nb : A-St.	Cu-Nb : A-St : Ci-St.	10	9	9	10	10	10	i	i	J	J	i	G	●^{0}	●^{0}	●^{0}	●^{0}	...	●^{0}	●^{0} ● ●^{2} early *a* : ● ●^{0} *a*, *p*, *n*.
16	St : Fr-St : A-St.	Cu : St-Cu : A-Cu.	Cu : St-Cu.	10	9	9	7	9	9	i	J	K	l	l	K	...	...	...	...	...	...	
17	Fr-Cu : A-St : Ci-St.	St-Cu : A-St.	Nb.	9	9	10	10	10	10	K	K	K	J	J	J	...	...	...	●	●	●^{0}	p ●^{0} *a* : ● *p* : p ●^{0} *n*.
18	St-Cu : St.	Nb : St-Cu : A-St.	Cu : St-Cu : A-Cu : Ci.	10	10	10	10	8	3	l	K	K	l	l	K	...	...	●^{0}	...	...	...	p ● *p*.
19	St : St-Cu : A-St.	Cu : St-Cu : A-St.	Cu-Nb : Nb : A-Cu.	10	9	9	–	9	6	K	J	K	–	K	J	...	●	...	–	●^{0}	...	p ● *a* : T 10^h 40^m : KQ 11^h 33^m : [p ● *p*, *n* : ∩ 18^h 30^m.
20	St-Cu.	Cu : St-Cu : A-Cu.	Nb : A-St : A-Cu.	9	9	9	8	10	9	J	J	J	J	G	G	...	...	...	...	●^{0}	...	●^{0} ● *p*.
21	Cu.	Cu : A-Cu.	Cu : A-Cu : Ci.	1	6	8	9	9	9	i	K	l	l	l	J	...	...	...	...	...	...	
22	St.	Cu : St-Cu.	Cu : St-Cu.	10	10	8	4	4	1	K	K	K	K	K	K	...	...	...	...	...	...	
23	Cu : A-Cu : Ci.	Fr-Cu : A-Cu : Ci.	Cu : A-Cu : Ci : Ci-St.	7	7	7	5	9	9	J	K	K	K	K	K	...	...	...	...	...	...	
24	Cu : A-Cu : Ci.	Fr-Cu : Ci-Cu : Ci.	Fr-Cu : A-Cu : Ci.	8	7	7	4	4	6	G	J	K	K	K	K	...	...	...	...	...	...	⌓ early *a*.
25	Nb.	Cu-Nb : St-Cu : A-Cu.	Fr-Nb : A-St.	10	10	9	10	10	10	i	K	l	J	i	i	●	●^{0}	...	●	●^{0}	●	● ●^{0} early *a*, *a*, *p* : ●^{2} ☈ 14^h 30^m. [● *n*
26	St : St-Cu : A-Cu.	Nb : St-Cu : A-St.	Nb.	9	9	10	–	10	10	K	l	J	–	i	K	...	...	●^{0}	–	●	●^{0}	● ●^{0} *p*, *n*.
27	A-Cu.	Cu : St-Cu : Ci.	Cu : Nb : A-Cu : Ci.	3	9	8	9	5	2	K	K	K	K	K	K	...	...	...	...	...	...	● ●^{0} early *a* : p ● *a* : p ●^{2} 15^h 35^m : [p ●^{0} ∩ *p*.
28	St-Cu : A-Cu.	Cu : St-Cu : A-Cu.	Cu : St-Cu : A-Cu.	8	9	9	9	9	9	K	K	l	K	K	K	...	...	...	...	...	...	
29	St-Cu : A-Cu : Ci.	Fr-Cu : Fr-Nb : Ci.	Cu : St-Cu : A-Cu.	7	7	10	9	8	7	i	K	K	K	K	K	...	...	●^{0}	...	...	●^{0}	⌓ early *a* : p ●^{0} *a*, *p*.
30	St : Fr-St.	Cu : St-Cu.	Cu : St-Cu : A-Cu.	10	10	10	9	9	9	J	J	l	K	l	K	...	...	...	...	...	...	● ●^{0} early *a* : p ● u *n*.
31	St.	Cu : St-Cu.	Cu : St-Cu : A-Cu.	10	10	10	9	6	9	G	i	K	K	K	i	...	...	...	...	...	...	
Mean Cloud Am'nt.				7·5	8·4	8·4	*7·9	7·3	6·3													

535. Richmond (Kew Observatory). August, 1931.

Day.	Cloud Forms. 7^h	Cloud Forms. 13^h	Cloud Forms. 18^h	Cloud Amount (All Forms). 7^h	9^h	13^h	15^h	18^h	21^h	Visibility. 7^h	9^h	13^h	15^h	18^h	21^h	Precipitation. 7^h	9^h	13^h	15^h	18^h	21^h	Remarks on the Weather of the Day.
1	Cu : A-Cu : Ci-Cu.	Cu.	Cu : A-Cu.	7	6	9	6	9	7	F	i	J	J	J	J	...	...	...	...	...	...	⌓ m early *a*.
2	Nb : A-Cu : Ci-St.	Nb.	St-Cu : A-Cu.	10	10	10	–	8	10	J	H	H	–	J	J	●^{0}	●^{0}	●^{0}	–	...	...	● ●^{0} early *a*, *a*.
3	Fr-St : A-Cu : Ci-Cu.	Fr-Cu : St-Cu.	St-Cu.	7	7	5	9	9	10	J	J	K	K	J	J	...	...	...	...	...	...	☈ ● *n*.
4	St.	Cu.	Fr-St : Cu : A-Cu.	10	10	9	9	2	10	G	H	i	J	i	H	...	...	...	...	...	●^{0}	●^{0} early *a* : p ●^{0} T *p* : ● ●^{0} *n*.
5	St : A-St.	St.	St : Nb : A-St : Ci-St.	10	10	10	6	9	6	G	H	H	i	G	G	...	...	...	...	...	...	☈ ● *n* : ☈^{2} 19^h 15^m–20^h 15^m : ●^{2} [19^h 18^m–20^h.
6	St : A-St.	St.	St : Nb.	10	10	10	9	10	10	G	H	i	i	G	F	...	...	...	...	...	...	u 18^h : m n.
7	St-Cu : A-Cu.	Cu : A-Cu : Ci.	Cu : St-Cu : A-Cu.	8	7	6	9	8	8	i	K	K	K	K	K	...	...	...	...	...	...	⌓ early *a*.
8	Nb : Fr-Nb : A-St.	St : St-Cu.	St : St-Cu.	10	9	10	7	10	10	i	J	J	K	J	J	●^{0}	●	...	...	...	●^{0}	●^{0} ● early *a*, *a*, *n* : T *a*.
9	Cu : A-Cu : Ci.	Cu : St-Cu.	Cu. : St-Cu.	4	3	8	–	7	4	K	K	K	–	K	i	...	...	...	–	...	...	
10	St-Cu : A-Cu.	Nb : A-St.	Nb : St-Cu : A-St.	8	10	10	10	10	10	G	i	i	J	J	J	...	●^{0}	●^{0}	...	●	●^{0}	⌓ early *a* : ● ●^{0} *a*, *p*, *n*.
11	A-Cu : Ci : Ci-St.	Fr-Cu : Ci-St.	Cu : St-Cu : A-Cu.	7	7	9	10	8	10	G	J	l	K	J	J	...	...	...	...	...	...	⌓ early *a*.
12	St-Cu : A-Cu.	Cu : A-Cu : Ci.	Cu : A-Cu.	8	8	8	9	7	9	i	K	l	K	K	K	...	...	...	...	...	...	⌓ early *a* : p ● *n*.
13	St.	Cu.	Fr-Nb : A-St.	10	10	9	10	10	10	i	i	i	G	G	G	●^{0}	...	...	...	●^{0}	...	● *a* : ●^{0} *n*.
14	St : Fr-St : A-St.	Nb.	St-Cu : Nb : Cu.	10	10	10	10	9	7	G	G	G	H	i	i	●^{0}	...	●	●	...	...	●^{0} early *a* : T *a*, *p* : ● *a*, *p*, *n* : p ●^{2} [14^h 55^m, 18^h 35
15	Cu : A-St : Ci.	Cu : Cu-Nb : Ci.	Cu : Ci.	7	7	3	9	7	3	H	K	l	l	m	J	...	...	...	...	...	...	● early *a* : () 18^h.
16	Cu : St-Cu : A-Cu : Ci.	Cu-Nb : Cu : A-Cu.	Cu : Cu-Nb : St-Cu : Ci.	9	9	9	–	7	1	J	J	K	–	K	J	...	●	...	–	...	...	● ●^{0} early *a*, *a* : ⥾ (gusts) *a* : p ● *p*.
17	St-Cu.	Cu : St-Cu.	Cu : Fr-Cu.	9	9	6	4	1	0	K	K	K	K	K	K	...	...	...	...	...	...	⥾ (gusts) early *a* : p ● *a*.
18	St-Cu.	Cu.	Cu : A-Cu : Ci-St.	9	3	3	8	9	10	H	i	l	l	K	J	...	...	...	...	...	...	⌓ early a : ⊕ 18^h.
19	Nb.	St-Cu : Ci : Ci-St.	Cu : St-Cu : A-Cu.	10	10	9	9	9	9	G	G	K	K	K	K	●	●^{0}	...	●^{0}	...	...	● early *a* : ⥾ (gusts) *p* : p ●^{0} *n*.
20	Cu : St-Cu : Fr-Cu.	St-Cu : A-St.	Fr-St : St-Cu : A-Cu : Ci-St.	1	9	10	10	9	9	K	K	J	J	K	K	...	●^{0}	...	●	...	...	p ● *a*, *p* : ⥾ (gusts) *a*, *p*.
21	St-Cu : A-Cu.	St-Cu.	St-Cu : A-Cu.	9	10	9	9	9	10	K	K	l	K	K	K	...	...	...	...	...	●^{0}	p ●^{0} early *a*, *p*.
22	A-Cu.	St-Cu : A-Cu.	St-Cu : A-St : A-Cu.	9	8	9	9	10	7	i	i	J	J	J	J	...	...	...	...	...	...	⌓ early *a*.
23	A-Cu.	A-St.	A-Cu : Ci-Cu.	2	9	10	–	7	10	i	i	J	–	i	i	...	...	...	–	...	...	⌓ early *a*.
24	St-Cu : A-Cu : Ci-St.	Cu : St-Cu : A-St.	Nb : A-St.	10	10	10	10	10	9	G	G	J	i	i	J	...	...	...	...	●^{0}	...	⌓ early *a* : ⊕ 7^h : ⥾ (gusts) p, *n*.
25	Cu : A-St : Ci.	Cu : St-Cu : A-Cu.	Cu : St-Cu : A-Cu.	9	5	9	5	9	0	J	J	l	l	K	J	...	...	...	...	...	...	⊕ 7^h : ⥾ (gusts) *a* : ⌓ *n*.
26	—	Cu.	Cu : A-Cu : Ci.	0	0	5	6	4	2	F	G	J	J	i	H	...	...	...	...	...	...	⌓ m early *a*.
27	A-Cu.	Cu : St-Cu : Ci.	Fr-Cu : Ci-St : Ci.	1	5	9	8	8	3	E	i	K	K	K	i	...	...	...	...	...	...	⌓ f early *a*.
28	St-Cu : Ci : Ci-St.	Cu : St-Cu : Ci : Ci-St.	Fr-Cu : Ci-St : Ci.	8	9	9	9	9	8	G	i	J	J	J	J	...	...	...	...	...	...	⌓ early *a* : ⊕ *a*, *p*.
29	Ci : Ci-St.	Ci : Ci-St.	Ci-Cu.	9	6	4	4	6	3	G	i	K	K	K	K	...	...	...	...	...	...	⌓ early *a* : ⥾ (gusts) *a*.
30	St.	Cu : St-Cu : A-St.	Nb : St-Cu.	10	9	9	–	10	10	J	i	K	–	J	G	...	...	...	–	●^{0}	●^{0}	p ●^{0} *a*, *p* : d ●^{0} *n*.
31	St.	St.	Fr-St : A-Cu.	10	10	10	10	9	9	i	H	H	H	i	i	...	...	...	...	...	...	●^{0} early *a* : ⌓ *n*.
Mean Cloud Am'nt.				7·8	7·9	8·3	†8·2	8·0	7·2													

* Mean of 27 days. †Mean of 26 days.

536. Richmond (Kew Observatory). **September, 1931.**

Day.	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the Weather of the Day.
	7^h	13^h	18^h	7^h	9^h	13^h	15^h	18^h	21^h	7^h	9^h	13^h	15^h	18^h	21^h	7^h	9^h	13^h	15^h	18^h	21^h	
1	St.	Fr-St : St.	Nb : St-Cu : A-St.	10	9	10	9	9	10	E	F	H	J	J	J	…	…	…	…	●^{0}	…	f ⌓ early *a*.
2	Nb : St-Cu : Ci-St.	Nb.	St-Cu : Cu-Nb.	9	10	10	9	4	1	K	H	i	K	K	i	●^{0}	●	●	…	…	…	● ●^{0} early *a* : ● *a*, p.
3	St-Cu : Cu : A-Cu : Ci.	Cu-Nb : St-Cu : Ci.	Cu : St-Cu.	5	9	8	6	4	2	G	K	K	l	K	J	…	…	…	…	…	…	●^{2} ●^{0} early *a* : p ● *a*, *p* : T 13^h : ⌓ 21^h : [● *n*.
4	Fr-Nb : St-Cu : A-St.	Fr-Cu : St-Cu.	Nb : Cu : A-St.	9	10	9	9	10	10	J	J	K	K	J	J	●^{0}	●^{0}	…	…	…	…	●^{0} ● early *a* : ● *n*.
5	St : St-Cu.	St-Cu.	St-Cu.	9	10	10	10	10	9	J	i	i	H	i	J	…	…	…	…	…	…	● ●^{0} early *a* : p ●^{0} *p*.
6	—	Cu : St-Cu.	Cu : St-Cu : A-Cu.	0	1	7	–	4	7	i	J	l	–	K	i	…	…	…	–	…	…	⌓ early *a*, *n*.
7	A-Cu.	Cu-Nb : St-Cu.	Cu : Fr-Cu.	9	8	8	1	1	0	G	H	K	i	J	F	…	…	…	…	…	…	⌓ early *a*, *n* : m *n*.
8	St.	Fr-Cu.	St-Cu : Ci.	0	0	2	4	1	0	c	E	J	J	i	F	…	…	…	…	…	…	f ⌓ early *a* : m ⌓ *n*.
9	—	Cu : St-Cu : Ci.	Cu : Ci : Ci-St.	0	1	7	8	8	1	F	H	K	J	i	G	…	…	…	…	…	…	f ⌓ early *a*.
10	A-St.	Cu : St-Cu : A-Cu.	St-Cu : A-Cu : A-St.	10	10	7	9	9	0	i	H	J	i	i	G	…	●^{0}	…	…	…	…	p ● early *a*.
11	A-Cu.	Cu : St-Cu : A-St.	Fr-Cu.	9	9	9	5	1	0	G	i	J	J	G	F	…	…	…	…	…	…	⌓ early *a* : m ⌓ *n*.
12	Nb.	Nb : A-St.	Nb : A-St.	10	10	10	10	10	2	G	i	H	E	F	i	●^{0}	…	●	●	●^{0}	…	●^{0} early *a* : ● a *p* : f *p*.
13	Ci.	Cu : Ci.	St-Cu : A-Cu.	3	1	4	–	9	7	i	i	J	–	i	i	…	…	…	–	…	…	⌓ early *a*.
14	A-Cu.	Cu.	A-Cu : Ci.	9	5	4	1	9	10	F	F	J	J	i	i	…	…	…	…	…	…	m ⌓ early *a*.
15	St-Cu.	Cu.	Cu : A-Cu : A-St.	9	4	8	8	2	0	G	i	J	J	i	D	…	…	…	…	…	…	⌓ early *a* : f ⌓ *n*.
16	St.	Cu.	Cu : Ci.	10	10	1	1	1	0	C	C	i	i	i	H	…	…	…	…	…	…	f ⌓ early *a* : ⌓ *n*.
17	A-St.	Cu : St-Cu.	St.	10	10	9	10	10	10	G	F	i	J	H	G	…	●	…	…	…	…	⌓ early *a*.
18	St.	St.	St.	10	10	10	10	10	10	E	H	H	H	F	G	●^{0}	…	…	…	…	…	f d ●^{0} early *a*.
19	A-Cu.	Cu : A-Cu.	St-Cu.	1	1	2	5	9	9	F	G	i	i	G	i	…	…	…	…	…	…	m ⌓ early *a* : ● *n*.
20	St-Cu : A-Cu : Ci.	Cu : St-Cu.	Cu : Ci.	1	3	3	–	9	7	i	i	J	–	J	J	…	…	…	–	…	…	● early *a*.
21	Ci.	St-Cu : Cu : A-Cu.	St-Cu : A-Cu : Ci.	1	6	9	9	9	9	H	J	K	J	i	i	…	…	…	…	…	●^{0}	⌓ early *a* : p ●^{0} *p*.
22	A-Cu.	Cu : St-Cu : A-Cu.	A-Cu : A-St.	3	4	5	4	8	10	i	i	J	J	H	i	…	…	…	…	…	…	⌓ early *a*.
23	St-Cu : A-St.	Nb.	Cu-Nb : St-Cu.	10	9	9	10	6	3	i	i	H	i	i	H	…	…	●^{0}	●^{0}	…	…	●^{0} early *a* : ● *a*, *p*.
24	St-Cu : A-Cu : Ci.	St-Cu : A-Cu.	St-Cu.	5	9	10	10	9	9	G	H	i	i	H	i	…	…	…	…	…	…	⌓ early *a*.
25	St : St-Cu.	St-Cu : A-St.	St-Cu : St : A-St.	10	10	10	10	10	10	J	i	i	H	G	G	…	…	…	…	…	…	⌓ early *a*.
26	St-Cu : A-St.	St-Cu.	St-Cu.	10	10	10	10	10	10	G	i	i	i	H	i	…	…	…	…	…	●^{0}	⌓ early *a*.
27	St-Cu.	St : St-Cu.	St : St-Cu.	9	9	9	–	9	9	F	G	i	–	G	G	…	…	…	–	…	…	⌓ m early *a*.
28	A-St.	Fr-Cu : A-Cu.	St : A-Cu : Ci-St.	10	10	7	9	6	0	F	H	J	i	G	F	…	…	…	…	…	…	⌓ m early *a*, *n*.
29	St-Cu.	Cu : St-Cu.	A-Cu.	9	9	8	4	5	1	F	F	i	H	H	F	…	…	…	…	…	…	⌓ m early *a*, *n*.
30	A-Cu.	Cu : Cu-Nb : Ci.	St-Cu : A-Cu : A-St.	6	3	9	10	10	9	G	G	J	H	H	G	…	…	…	…	…	…	⌓ early *a* : ●^{0} *n*.
Mean Cloud Am'nt.				6·9	7·0	7·5	7·3*	7·1	5·5													

537. Richmond (Kew Observatory). **October, 1931.**

Day.	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the Weather of the Day.
	7^h	13^h	18^h	7^h	9^h	13^h	15^h	18^h	21^h	7^h	9^h	13^h	15^h	18^h	21^h	7^h	9^h	13^h	15^h	18^h	21^h	
1	St-Cu.	Cu : Ci : Ci-Cu.	Ci : Ci-St.	9	9	7	8	10	10	F	H	J	J	G	i	…	…	…	…	…	…	⌓ m early *a*.
2	St : St-Cu.	St-Cu.	Nb : A-St.	10	10	10	7	10	7	K	J	J	K	G	J	…	…	…	…	●	…	●^{0} early *a*.
3	Ci.	Fr-Cu.	A-St : Ci.	8	9	3	3	1	3	G	i	K	K	G	F	…	…	…	…	…	…	⌓^{2} early *a* : ⌓ m *n*.
4	St-Cu.	St-Cu : Nb.	St-Cu.	9	10	10	–	9	10	J	i	i	–	G	G	…	…	●^{0}	–	…	…	⌓ early *a*.
5	St : St-Cu.	St : St-Cu.	St-Cu.	9	9	10	10	10	1	i	J	J	K	G	G	…	…	…	…	…	…	
6	Ci.	St-Cu : A-St : Ci-St.	Nb : St-Cu.	9	3	9	10	10	10	B	E	J	K	H	i	…	…	…	…	…	●	⌓ f early *a* : ● ●^{0} *n*.
7	Cu : St-Cu : A-St.	Cu : Cu-Nb : A-Cu.	St-Cu.	9	4	1	6	1	1	i	J	K	K	i	J	…	…	…	…	…	…	● ●^{0} early *a* : p ●^{0} *p*.
8	St : A-St : Ci-St.	St-Cu.	St-Cu.	9	10	9	7	8	9	K	i	l	K	G	J	…	…	…	…	…	…	⌓ early *a* : ●^{0} *a*.
9	St-Cu : A-St : A-Cu.	Cu : Ci : Ci-St.	A-St : A-Cu.	9	9	9	9	9	6	J	J	K	K	i	J	…	…	…	…	…	…	⌓ early *a n* : ⊕ *p*.
10	St-Cu : Ci-Cu.	St-Cu : Cu : A-Cu.	A-Cu.	7	9	9	10	9	9	i	i	i	i	F	E	…	…	…	…	…	…	⌓ early *a* : f ⌓ *n*.
11	St.	St.	Ci-St.	10	10	10	–	1	10	C	D	F	–	C	B	…	…	…	–	…	…	⌓ f early *a*, *a*, *n* : m *p*.
12	St.	Ci.	—	10	10	1	1	0	0	B	C	E	G	E	B	…	…	…	…	…	…	⌓ f early *a*, *n*.
13	St.	St.	Fr-St.	10	9	10	10	6	0	F	G	G	G	G	F	…	…	…	…	…	…	f early *a* : m ⌓ *n*.
14	St : St-Cu : Ci : Ci-Cu.	Cu : St-Cu : Ci.	St : St-Cu : Ci : Ci-St.	5	9	6	6	6	0	G	H	J	J	G	í	…	…	…	…	…	…	m ⌓ early *a*.
15	A-Cu.	—	—	6	9	0	0	0	2	D	E	G	G	E	F	…	…	…	…	…	…	f ⌓ early *a* : f 18^h : m *n*.
16	St : St-Cu : A-Cu.	St-Cu.	St : St-Cu : A-St.	5	9	10	9	10	10	G	F	G	G	G	i	…	…	…	…	…	…	z 9^h.
17	St-Cu.	St : A-St.	St : St-Cu.	10	10	10	10	10	10	i	G	G	G	G	J	…	…	…	…	…	…	
18	St.	St.	St : A-St.	10	10	10	–	10	8	i	G	F	–	F	G	…	…	…	–	…	…	z m *p*.
19	St-Cu.	St-Cu.	St-Cu : St : A-Cu.	9	4	7	9	8	9	E	E	i	H	F	G	…	…	…	…	…	…	f ⌓ early *a* : m 18^h.
20	St-Cu : A-St.	Nb : St.	Ci.	9	9	10	8	1	0	i	H	G	i	F	G	…	…	●^{0}	…	…	…	d ●^{0} 13^h : m 18^h.
21	A-St : Ci-Cu : Ci.	Fr-Cu : Ci.	—	6	8	7	2	0	0	G	G	i	i	H	G	…	…	…	…	…	…	⊔ early *a* : ⊕ 9^h – 11^h.
22	St.	St-Cu : Ci-Cu.	A-Cu.	10	10	9	9	9	4	B	A	E	G	F	E	…	…	…	…	…	…	f ⊔ early *a* : f *a*, *n*.
23	St : A-Cu : Ci-St.	A-Cu.	A-Cu.	8	7	9	9	9	4	G	F	F	G	G	F	…	…	…	…	…	…	f ⊔ early *a*.
24	St-Cu : A-St.	Cu.	St-Cu.	9	2	1	8	1	1	F	G	i	H	G	G	…	…	…	…	●^{0}	…	⌓ m early *a* : p ●^{0} 18^h.
25	St-Cu.	Cu : St-Cu.	—	1	1	2	–	0	0	J	G	i	–	G	G	…	…	…	–	…	…	⊔ early *a* : p ●^{0} *p*.
26	—	Cu : St-Cu.	St.	0	0	4	1	9	0	H	F	i	G	F	E	…	…	…	…	…	…	⊔ early *a* : f *n*.
27	St.	—	St.	10	10	0	4	10	0	B	A	D	E	D	A	…	…	…	…	…	…	f ⊔ early *a* : f *a*, *p* : f ⊔ *n*.
28	St-Cu.	Nb : A-St.	—	9	9	10	4	0	0	E	E	G	H	G	F	…	…	…	…	…	…	f ⊔ early *a* : p ● *a* : m *n*.
29	St-Cu : A-Cu : Ci-St.	A-St.	Nb.	8	3	10	10	10	10	G	G	i	G	G	G	…	…	…	●^{0}	●	●	● *p*, *n*.
30	St : Fr-St : A-St.	Cu : St-Cu.	St-Cu : Ci.	9	5	5	7	9	0	J	i	i	H	H	E	…	…	…	…	…	…	● ●^{0} early *a* : f ⌓ *n*.
31	A-Cu.	Cu : St-Cu.	St-Cu : St.	9	9	3	10	9	8	D	D	G	G	G	G	…	…	…	…	…	…	f ⊔ early *a*.
Mean Cloud Am'nt.				8·1	7·6	6·8	6·9†	6·3	4·6													
	7^h	13^h	18^h	7^h	9^h	13^h	15^h	18^h	21^h	7^h	9^h	13^h	15^h	18^h	21^h	7^h	9^h	13^h	15^h	18^h	21^h	
Day.	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						Remarks on the Weather of the Day.

* Mean of 26 days. †Mean of 27 days.

538. Richmond (Kew Observatory). November, 1931.

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	St-Cu.	Ci.	St-Cu : Ci-St.	10	1	1	–	1	1	H	i	i	–	G	F	...	...	...	–	...	...	⌓ early *a* : ⌓ m *n*.
2	Ci.	Ci.	A-St : Ci-St.	9	9	6	6	1	1	C	E	J	K	i	K	...	...	...	...	...	...	⊔ f early *a* : ⌓ *n*.
3	Nb : Fr-Nb.	St-Cu.	St-Cu : Nb.	10	9	10	10	10	8	J	K	J	J	J	K	●^{0}	...	...	...	●^{0}	...	d ●^{0} u early *a* : ╨ (gusts) *a*, *p*, *n*.
4	Nb : A-St.	St-Cu : Ci : Ci-St.	Ci.	10	10	9	7	1	0	J	i	J	J	J	J	●^{0}	●^{0}	...	...	...	...	●^{0} ╨ (gusts) early *a*, *a*.
5	St-Cu : Nb : Ci-St.	Cu:St-Cu:Ci:Ci-Cu.	Cu : A-Cu.	9	9	9	4	2	0	i	G	J	K	G	F	...	...	...	...	...	...	p ●^{0} early *a* : ⌓ m *n*.
6	St : St-Cu : A-Cu.	St-Cu.	St-Cu.	8	10	7	6	9	10	G	H	i	i	i	G	...	...	...	...	...	...	⌓ early *a*.
7	St : A-St.	Cu : St-Cu.	A-St : A-Cu.	10	9	6	4	7	10	G	F	J	J	J	J	...	...	...	...	...	●^{0}	●^{0} ● early *a* : m 9h : p ●^{0} *p* : ⊛^{0} ● *n*.
8	Nb : A-St.	St : A-St.	St.	10	10	10	–	10	10	G	G	E	–	F	F	●^{0}	●^{0}	...	–	...	...	● ⊛^{0} early *a*, *a* : f 13h : ●^{0} m *p* : m *n*.
9	St-Cu:A-Cu:Ci:Ci-St.	St-Cu : A-St.	Cu-Nb : St-Cu.	8	10	10	10	7	0	i	G	i	i	i	J	...	●	●	●^{0}	...	...	● ⊛^{0} *a*, *p* : ╨ (gusts) *p*.
10	St : Nb : A-Cu : Ci.	St : Nb : Ci.	Nb : A-St.	8	10	9	8	9	4	J	i	J	J	J	J	...	●	...	...	●^{0}	...	● ⊛^{0} early *a*, *a* : p ●^{0} *p*, *n* : ╨ (gusts) *n*.
11	St-Cu : Ci.	Cu : A-St : Ci.	St-Cu : Nb.	9	2	9	8	7	9	K	J	J	J	J	i	...	...	●^{0}	●^{0}	●	...	● ╨ (gusts) early *a* : p ●^{0} ╨ (gusts) *p* : [● *n*.
12	Cu : St-Cu.	Cu : Fr-Cu.	A-Cu.	1	0	1	1	6	9	G	i	J	i	J	J	...	...	...	...	...	...	⌓⌓ early *a*.
13	Cu : St-Cu : A-Cu.	—	—	2	1	0	1	0	0	G	F	H	H	E	D	...	...	...	...	...	...	⌓⌓ early *a* : m 9h : f ⌓ *n*.
14	St-Cu : Ci : Ci-St.	Cu : St-Cu : Ci.	St-Cu : Ci : Ci-St.	8	9	9	9	10	10	i	G	J	H	H	J	...	...	...	...	...	●^{0}	
15	St.	St.	St.	10	10	10	–	10	10	l	i	G	–	F	G	...	...	...	–	...	...	d ●^{0} *p*, *n*.
16	A-Cu.	St : St-Cu.	St.	9	9	10	9	10	0	i	F	E	E	G	F	...	...	...	...	...	...	⌓ early *a* : m f *a*, *p* : m *n*.
17	St.	A-Cu : Ci-Cu.	St.	10	10	9	9	10	9	C	E	E	E	D	F	...	...	...	...	...	...	f ⊔ early *a* : f *a*, *p*, *n*.
18	St.	Nb.	Nb.	10	10	10	10	10	10	i	H	F	F	G	i	...	...	●^{0}	●^{0}	●^{0}	●^{0}	
19	St:St-Cu:A-St:Ci-St.	A-St : Ci-Cu.	Ci : Ci-St.	10	10	9	9	9	1	F	E	G	G	E	D	...	...	...	...	...	...	⊛ early *a* : f *a* : Ⓣ 18h : f ⊔ *n*.
20	St : A-St.	St-Cu.	St.	10	9	10	10	10	1	C	H	G	G	G	G	...	...	...	...	...	...	f ⊔ early *a*.
21	St-Cu : A-St : A-Cu.	—	—	4	9	0	1	0	9	J	G	i	i	E	B	...	...	...	...	...	...	⌓ early *a* : f ⌓ *n*.
22	St.	St.	St.	10	10	10	–	10	10	A	A	X	–	D	G	...	...	...	–	...	...	f ⊔ early *a* : f e *a*, *p*.
23	St-Cu : St : A-St.	St-Cu.	St : St-Cu : A-St.	10	10	10	9	10	10	i	G	i	G	G	G	...	●^{0}	...	...	...	●^{0}	⌓ early *a* : ⊛ ⊛^{0} *n*.
24	St-Cu:Cu-Nb:A-Cu.	St-Cu.	—	9	1	6	0	0	9	i	H	i	i	G	G	...	...	...	...	...	...	● ⊛^{0} early *a* : ⌓ Ⓣ *n*.
25	St-Cu : A-Cu : Ci.	St-Cu : Ci.	St : A-St.	8	9	9	10	10	10	i	H	i	H	H	G	...	...	...	...	...	...	⌓ early *a*.
26	St-Cu : St : A-St.	St-Cu.	St-Cu.	10	9	9	9	10	10	i	H	J	J	J	i	...	...	...	...	...	●^{0}	⊛^{0} early *a* : ● *p* : ⊛ *n* : ●^{2} KQ 19h 25m.
27	Cu : St-Cu : A-Cu.	St-Cu : A-St.	St-Cu : A-St.	3	8	10	9	9	9	J	G	J	G	i	G	...	...	...	...	...	...	⊛ early *a* : p ● *p*.
28	St-Cu : A-Cu : Ci-St.	St.	St-Cu.	9	10	9	10	9	8	E	E	F	E	F	F	...	...	...	...	...	...	f ⌓ early *a* : p ● 8h : f m *a*, *p*, *n*.
29	St.	St.	St.	10	10	10	–	10	10	B	B	A	–	B	B	...	...	...	–	...	...	f e *a*, *p*, *n*.
30	St.	St.	St.	10	10	10	10	10	10	D	E	E	D	F	F	...	...	...	...	...	...	f e early *a* : f *a*, *p* : m ⌓ *n*.
Mean Cloud Am'nt.				8·5	8·1	7·9	7·2*	7·2	6·6													

539. Richmond (Kew Observatory). December, 1931.

Day.	Cloud Forms. 7h	Cloud Forms. 13h	Cloud Forms. 18h	Cloud Amount (All Forms). 7h	9h	13h	15h	18h	21h	Visibility. 7h	9h	13h	15h	18h	21h	Precipitation. 7h	9h	13h	15h	18h	21h	Remarks on the Weather of the Day.
1	St.	St.	St : St-Cu.	10	10	10	10	10	10	F	C	E	F	F	G	...	...	...	...	...	...	m ⌓ early *a* : f *a* : m *p*.
2	—	A-Cu.	St-Cu.	0	10	1	5	9	10	C	C	D	G	J	J	...	...	...	...	...	...	f ⊔ early *a* : f *a* : ⌓ *n*.
3	Cu : St-Cu : A-St.	Nb.	St : St-Cu.	10	10	10	10	10	1	J	i	i	i	i	J	...	●	●^{0}	...	...	...	╨ (gusts) early *a* : ● *a* : ●^{0} ╨ (gusts) *p*.
4	Cu-Nb : St-Cu.	St-Cu : Ci.	St-Cu.	9	8	9	9	1	1	K	J	J	J	J	K	●^{0}	...	...	●^{0}	...	...	╨ (gusts) ⊛^{0} early *a*, *a*, *p* : ╨ (gusts) *n*.
5	A-Cu : Ci.	St : St-Cu : A-Cu.	Nb : A-St.	9	9	9	10	10	9	J	H	G	G	H	J	...	...	...	●^{0}	●^{0}	●^{0}	⊛^{0} *p* *n* : ╨ (gusts) *n*.
6	A-St : Ci.	Ci : Ci-St.	St : A-Cu.	1	9	6	–	7	10	J	i	G	–	E	F	...	...	...	–	...	...	╨ (gusts) early *a* . f ⊛^{0} m *n*.
7	—	Ci.	—	0	0	2	6	0	1	i	G	H	G	G	G	...	...	...	...	...	...	⊔ early *a* : ⌓ *n*.
8	Nb : A-St : A-Cu.	St.	St.	10	10	10	10	5	6	i	H	G	G	E	E	●^{0}	●	...	...	...	...	● early *a* : d ● *a* : f *n*.
9	A-Cu : Ci.	A-Cu.	St-Cu.	9	9	7	9	9	7	i	G	i	H	J	J	...	...	...	...	...	...	f early *a*.
10	St : St-Cu : A-Cu.	St-Cu : Ci.	St-Cu.	7	10	2	3	7	9	G	H	i	i	H	i	...	...	...	...	...	...	p ⊛^{0} early *a* : d ⊛^{0} *a*.
11	St : St-Cu.	St-Cu : Cu.	St-Cu : Cu.	9	10	9	9	9	10	H	G	H	H	G	E	...	...	...	...	...	...	⌓ early *a* : f *n*.
12	St-Cu.	St-Cu : A-St.	St-Cu.	10	10	10	9	9	10	F	H	H	H	H	G	...	...	...	...	...	...	f early *a*.
13	Nb.	St : St-Cu : A-St.	St : St-Cu.	10	10	10	–	10	10	G	F	G	–	G	i	●^{0}	...	...	–	...	...	m f *a*.
14	St : St-Cu.	St-Cu : Cu.	St : A-St.	10	9	9	10	10	10	i	H	i	G	i	i	...	...	...	...	...	...	
15	St-Cu : A-St.	St : St-Cu.	Nb.	10	10	10	10	10	10	i	H	H	H	E	F	...	...	...	●^{0}	●	...	f m *n*.
16	St-Cu : A-St.	A-Cu.	St : A-Cu.	10	9	9	8	9	9	i	F	G	G	G	G	...	...	...	...	...	...	m early *a*.
17	St-Cu.	St-Cu.	St-Cu : St.	1	9	10	9	10	0	G	E	E	F	F	F	...	...	...	...	...	...	⊔ early *a* : f *a* : m *p* : m ⊔ *n*.
18	St.	St.	St.	10	10	10	10	10	10	B	B	B	B	B	B	...	...	...	...	...	...	f ⊔ early *a* : f *a*, *p*, *n*.
19	St.	St-Cu.	St.	10	10	9	9	10	10	C	D	D	D	C	B	...	...	...	...	...	...	f ⊔ early *a* : f *a*, *p* : f ⊔ *n*.
20	St-Cu : A-St.	St-Cu.	St.	10	9	9	–	10	9	F	E	E	–	F	F	...	...	...	–	...	...	f ⊔ early *a* : f *a* : m *p*, *n*.
21	St-Cu.	St.	St.	9	10	10	10	10	9	i	F	G	F	G	G	...	...	...	...	...	...	z g *a*, *p*.
22	St : St-Cu.	St.	St.	10	10	10	10	10	10	i	F	G	G	G	G	...	...	...	...	...	...	
23	St : St-Cu.	St.	St : A-St.	10	10	10	10	10	9	i	G	G	G	G	i	...	...	...	...	...	...	
24	Nb.	A-St : A-Cu.	St-Cu.	10	10	9	9	9	10	J	G	H	H	i	i	●	...	...	...	...	...	● ⊛^{0} early *a*.
25	St : St-Cu.	St.	St.	10	10	10	–	10	0	i	G	G	–	G	G	...	...	...	–	...	...	d ●^{0} *a* : ⌓ *n*.
26	St : St-Cu : A-St.	St-Cu : A-Cu.	A-Cu : Ci.	10	9	9	9	2	9	i	G	G	i	G	G	...	...	...	...	...	...	⌓ early *a*, *a*.
27	St-Cu.	St-Cu.	St-Cu.	9	1	10	–	9	7	J	i	i	–	i	i	...	...	...	–	...	...	⌓⌓ early *a*.
28	St-Cu : A-St.	Nb : A-St.	St-Cu.	10	10	10	9	8	2	J	i	H	H	J	J	...	...	●^{0}	...	...	...	⊛^{0} *a* : p ● ⌒ *p*.
29	St-Cu : Cu : A-Cu.	A-Cu.	St-Cu.	3	10	1	2	10	0	J	i	i	G	G	H	...	✱	...	...	...	...	✱ *a* : p ● *n*.
30	Cu : St-Cu.	—	Cu : St-Cu.	3	9	0	1	4	0	i	H	i	G	i	J	...	...	...	...	...	...	
31	St.	—	—	1	2	0	2	0	0	H	D	G	G	E	D	...	...	...	...	...	...	⊔ early *a* : f ⊔ *a*, *n*.
Mean Cloud Am'nt.				7·7	8·8	7·7	8·0†	8·0	6·7													
Mean Annual Cloud Am'nt.				7·8	7·8	7·8	7·5	7·2	6·1													
	Cloud Forms.			Cloud Amount (All Forms).						Visibility.						Precipitation.						

* Mean of 25 days. † Mean of 26 days.

540. Richmond (Kew Observatory). **1931.**

Month.	JANUARY.		FEBRUARY.		MARCH.		APRIL.		MAY.		JUNE.	
Day.	$\lambda_+ \times 10^{18}$	$i \times 10^{18}$	$\lambda_+ \times 10^{18}$	$i \times 10^{18}$	$\lambda_+ \times 10^{18}$	$i \times 10^{18}$	$\lambda_+ \times 10^{18}$	$i \times 10^{18}$	$\lambda_+ \times 10^{18}$	$i \times 10^{18}$	$\lambda_+ + 10^{18}$	$i \times 10^{18}$
	ohm.$^{-1}$ cm.$^{-1}$	amp. cm.$^{-2}$	ohm.$^{-1}$ cm.$^{-1}$	amp. cm.$^{-2}$	ohm.$^{-1}$ cm.$^{-1}$	amp. cm.$^{-2}$	ohm.$^{-1}$ cm.$^{-1}$	amp. cm.$^{-2}$	ohm.$^{-1}$ cm.$^{-1}$	amp. cm.$^{-2}$	ohm.$^{-1}$ cm.$^{-1}$	amp. cm.$^{-2}$
1	...	...	...	...	...	...	22	62	57	91	...	...
2	...	...	29	139	26	85	12	60	...	...	46	53
3	...	...	...	...	17	64	...	...	...	...	49	101
4	...	...	...	...	15	93	...	...	27	60	...	...
5	11	61	12	74	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	42	78	...	...
7	10	66	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	34	75	36	95	...	...
9	13	92	...	...	...	...	...	...	...	...	...	...
10	...	...	27	80	...	...	23	93	...	...	...	...
11	...	...	...	...	20	47	...	...	40	92	36	42
12	17	77	32	65	30	78	...	...	54	87	42	56
13	...	...	27	105	28	57	32	59	70	129	...	...
14	16	104	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	33	54	...	...	46	53
16	27	70	...	...	16	107	31	73	...	...	50	93
17	...	...	8	61	12	78	35	99	...	...	...	...
18	...	...	...	...	32	109	...	...	31	151	...	...
19	18	64	19	73	33	95	...	...	...	...	...	...
20	...	...	...	...	56	120	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	50	80
23	...	...	...	...	...	...	36	60	...	...	50	93
24	...	...	23	62	...	...	...	...	...	...	...	...
25	...	...	22	60	11	75	...	...	...	...	...	...
26	25	70	19	38	12	87	...	...	21	81	...	...
27	19	54	...	...	...	...	...	...	25	116	...	...
28	...	...	...	...	...	...	...	...	...	...	43	54
29	...	...	—	—	...	...	30	86	...	...	...	...
30	...	...	—	—	...	...	36	59	...	...	31	77
31	...	...	—	—	17	95	—	—	...	...	—	—
Mean... ...	17	73	22	76	23	85	29	71	40	98	44	70
No. of Days used.	9	9	10	10	14	14	11	11	10	10	10	10

Month.	JULY.		AUGUST.		SEPTEMBER.		OCTOBER.		NOVEMBER.		DECEMBER.	
Day.	$\lambda_+ \times 10^{18}$	$i \times 10^{18}$	$\lambda_+ \times 10^{18}$	$i \times 10^{18}$	$\lambda_+ \times 10^{18}$	$i \times 10^{18}$	$\lambda_+ \times 10^{18}$	$i \times 10^{18}$	$\lambda_+ \times 10^{18}$	$i \times 10^{18}$	$\lambda_+ \times 10^{18}$	$i \times 10^{18}$
	ohm.$^{-1}$ cm.$^{-1}$	amp. cm.$^{-2}$	ohm.$^{-1}$ cm.$^{-1}$	amp. cm.$^{-2}$	ohm.$^{-1}$ cm.$^{-1}$	amp. cm.$^{-2}$	ohm.$^{-1}$ cm.$^{-1}$	amp. cm.$^{-2}$	ohm.$^{-1}$ cm.$^{-1}$	amp. cm.$^{-2}$	ohm.$^{-1}$ cm.$^{-1}$	amp. cm.$^{-2}$
1	...	...	...	...	48	90	53	128	...	...	15	81
2	...	...	...	...	...	...	35	118	36	102	7	34
3	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	58	135	...	...	39	108	...	...
5	...	...	28	72	...	...	37	113	29	109	...	...
6	86	125	...	...	...	...	45	103	30	102	...	...
7	54	79	38	74	29	108	...	...	...	...	9	46
8	...	...	...	...	35	90	...	...	...	...	...	...
9	57	77	...	...	38	84	31	102	...	...	11	40
10	...	...	...	...	...	...	...	...	...	...	21	64
11	...	...	34	39	38	69	...	...	...	...	11	57
12	...	...	...	...	...	...	27	84	...	...	...	...
13	...	...	...	...	...	...	25	65	...	...	...	...
14	...	...	...	...	43	105	30	95	...	...	...	...
15	...	...	...	...	37	93	...	...	...	...	...	...
16	41	60	...	...	...	...	15	48	...	...	12	81
17	...	...	...	...	...	...	...	...	7	51	...	...
18	...	...	71	123	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	26	68	11	80	...	...
20	50	173	...	...	...	...	...	...	11	55	...	...
21	44	72	24	60	...	...	29	125	...	...	8	69
22	52	118	...	...	...	...	24	115	...	...	11	58
23	57	94	...	...	...	...	...	...	15	75	17	69
24	55	98	...	...	...	...	...	...	22	85	...	...
25	...	...	39	130	...	...	...	...	17	80	...	...
26	...	...	39	95	...	...	21	120	23	61	...	...
27	...	...	35	128	...	...	11	57	...	...	...	...
28	38	68	...	...	...	...	21	57	...	...	...	...
29	48	135	...	...	...	...	...	...	...	...	26	111
30	39	79	...	...	...	...	...	...	7	30	24	109
31	41	111	...	...	—	—	...	...	—	—	...	...
Mean... ...	51	99	39	90	41	97	29	93	21	78	14	68
No. of Days used.	13	13	8	8	8	8	15	15	12	12	12	12

		λ_+	i
THE YEAR	Mean ...	30	83
	No. of days used	132	132

* Conductivity measurements refer to the test-plate of the underground laboratory and not, as in 1930 and in earlier years, to the Wilson apparatus on a tripod. *See* Introduction p. 351.

541. Richmond (Kew Observatory). ELECTRICAL CHARACTER OF EACH DAY, AND APPROXIMATE DURATION OF NEGATIVE POTENTIAL GRADIENT.

Month.	January.		February.		March.		April.		May.		June.	
Day.	Character	Duration Negative Pot. Grad.	Character	Duration Negative Pot. Grad.	Character	Duration Negative Pot. Grad.	Character	Duration Negative Pot. Grad.	Character	Duration Negative Pot. Grad.	Character	Duration. Negative Pot. Grad.
		hours.		hours.		hours.		hours.		hours.		hours.
1	0	...	1	2·7	1	0·4	0	...	0	...	2	3·2
2	1	0·1	1	1·1	0	...	2	4·1	1	0·3	0	...
3	2	5·3	1	1·3	2	4·1	2	10·8	2	10·3	0	...
4	1	0·1	0	...	0	...	0	...	1	2·1	0	...
5	0	...	0	...	0	...	2	3·6	1	1·0	1	2·6
6	0	...	0	...	1	0·2	2	5·2	1	0·1	1	1·5
7	0	...	1	2·5	1	0·1	0	...	0	...	1	2·7
8	0	...	1	0·5	0	...	0	...	1	0·2	0	...
9	0	...	0	...	1	1·8	0	...	0	...	1	2·0
10	0	...	1	1·3	1	0·7	0	...	0	...	1	0·1
11	0	...	2	6·5	0	...	0	...	0	...	0	...
12	1	2·4	1	0·1	1	0·1	1	0·1	0	...	1	0·1
13	1	0·3	1	0·2	0	...	0	...	0	...	0	...
14	0	...	0	...	0	...	0	...	0	...	2	3·2
15	1	0·7	1	2·6	0	...	1	1·4	2	3·8	0	...
16	0	...	1	2·8	0	...	1	0·1	2	6·8	0	...
17	1	1·2	0	...	0	...	2	3·2	1	1·1	1	0·4
18	1	0·5	1	0·3	0	...	2	10·2	1	1·7	1	1·9
19	0	...	1	0·1	0	...	2	18·5	0	...	2	4·9
20	0	...	0	...	0	...	2	9·0	0	...	0	...
21	0	...	0	...	0	...	0	...	1	1·0	0	...
22	0	...	0	...	0	...	1	2·0	1	1·8	0	...
23	2	8·6	1	0·6	1	0·1	1	1·1	2	4·1	0	...
24	1	0·3	0	...	1	0·1	2	4·7	1	0·9	1	0·1
25	1	0·3	0	...	0	...	2	9·6	1	0·5	0	...
26	1	0·2	1	0·5	0	...	2	4·7	1	0·4	0	...
27	1	0·8	2	5·8	0	...	1	0·9	0	...	0	...
28	1	0·2	2	3·2	0	...	2	3·6	1	2·0	0	...
29	1	2·3	—	—	0	...	0	...	1	1·0	0	...
30	1	2·8	—	—	0	...	0	...	1	1·2	0	...
31	2	6·6	—	—	0	...	—	—	0	...	—	—
Total	—	32·7	—	32·1	—	7·6	—	92·8	—	40·3	—	22·7
No. of days used	—	31	—	28	—	31	—	30	—	31	—	30
Mean	—	1·1	—	1·1	—	0·3	—	3·1	—	1·3	—	0·8

Month.	July.		August.		September.		October.		November.		December.	
Day.	Character	Duration Negative Pot. Grad.	Character	Duration Negative Pot. Grad.	Character	Duration Negative Pot. Grad.	Character	Duration Negative Pot. Grad.	Character	Duration Negative Pot. Grad.	Character	Duration Negative Pot.Grad.
		hours.		hours.		hours.		hours.		hours.		hours.
1	1	0·1	1	0·2	0	...	0	...	0	...	0	...
2	0	...	1	1·1	1	2·5	0	...	0	...	0	...
3	0	...	1	0·9	1	2·0	0	...	0	...	1	2·5
4	0	...	1	1·7	2	3·0	0	...	1	1·5	0	...
5	0	...	1	2·3	1	0·6	0	...	1	0·4	1	0·9
6	1	1·5	1	0·2	0	...	1	0·6	0	...	0	...
7	1	0·2	0	...	0	...	1	2·0	2	6·8	0	...
8	0	...	2	6·8	0	...	1	0·1	2	5·2	0	...
9	0	...	0	...	0	...	0	...	1	2·9	0	...
10	0	...	1	2·7	1	0·2	1	1·0	1	1·7	0	...
11	0	...	0	...	0	...	1	0·6	2	3·1	0	...
12	1	0·4	1	0·3	1	0·4	1	0·1	0	...	0	...
13	1	0·6	1	0·6	0	...	0	...	0	...	0	...
14	2	4·1	2	5·1	0	...	0	...	0	...	0	...
15	2	6·3	1	0·7	0	...	0	...	1	1·2	0	...
16	2	3·7	1	1·7	0	...	0	...	0	...	0	...
17	1	1·2	0	...	1	0·4	0	...	0	...	0	...
18	1	0·1	0	...	1	0·9	0	...	2	7·8	0	...
19	2	3·2	2	4·1	0	...	0	...	2	3·4	0	...
20	1	0·7	1	2·9	0	...	0	...	0	...	1	0·1
21	0	...	0	...	1	0·2	0	...	0	...	0	...
22	0	...	0	...	0	...	0	...	0	...	0	...
23	0	...	0	...	0	...	0	...	1	0·1	0	...
24	0	...	1	1·4	0	...	0	...	1	0·4	0	...
25	2	4·0	1	0·2	0	...	0	...	0	...	0	...
26	1	1·1	0	...	0	...	0	...	2	3·8	0	...
27	1	2·4	0	...	0	...	1	0·5	1	0·8	0	...
28	0	...	0	...	0	...	1	0·7	1	0·5	1	1·9
29	1	0·3	0	...	0	...	2	5·6	0	...	1	0·4
30	1	0·1	1	0·5	0	...	0	...	0	...	0	...
31	0	...	1	0·3	—	—	0	...	—	—	1	0·1
Total	—	30·0	—	33·7	—	10·2	—	11·2	—	39·6	—	5·9
No. of days used	—	31	—	31	—	30	—	31	—	30	—	31
Mean	—	1·0	—	1·1	—	0·3	—	0·4	—	1·3	—	0·2

Annual Values :— Character frequency 0: 198, 1: 125, 2: 42. Duration: Total 358·8 hrs., No. of days 365, Mean 0·98 hrs.

Mean Values for periods of sixty minutes, centred at the exact hours, Greenwich Mean Time.

542. Richmond (Kew Observatory). 1931.

Month.	January. Factor 2·19.				February. Factor 2·22				March. Factor 2·22.			
Hour. G.M.T.	3h.	9h.	15h.	21h.	3h.	9h.	15h.	21h.	3h.	9h.	15h.	21h.
Day.												
1	615	525	1055	695	70	635	z±	215	360	375	270	315
2	650	570	470	730	445	565	475	385	340	520	330	520
3	−480	495	270	300	125	270	395	565	540	870	385	−1200
4	290	200	540	550	270	455	490	430	475	575	620	555
5	450	650	540	450	340	500	635	590	395	665	725	555
6	580	650	685	805	135	195	430	410	340	665	495	590
7	605	670	660	625	160	350	385	590	215	565	540	510
8	625	495	705	1345	1215	340	260	160	235	305	385	800
9	965	480	730	860	45	330	285	350	305	495	495	655
10	560	695	640	740	160	−70	295	500	—	—	z±	385
11	650	715	505	495	320	455	−705	205	145	375	235	395
12	90	695	450	580	115	260	205	420	215	700	260	315
13	335	670	135	560	240	430	395	430	620	495	205	465
14	235	560	625	640	350	490	320	445	350	430	205	440
15	390	505	55	515	410	135	305	520	295	565	215	485
16	290	425	260	135	10	−55	180	365	285	440	680	495
17	110	390	325	450	430	545	785	670	405	655	665	645
18	190	180	125	380	215	z+	260	90	610	710	340	350
19	325	215	370	405	125	465	375	490	385	360	285	555
20	200	550	390	595	430	410	320	375	575	405	215	395
21	840	550	335	280	260	545	395	795	160	260	295	405
22	135	260	315	615	600	660	270	555	135	250	225	350
23	110	−200	155	225	455	535	320	615	115	440	385	420
24	90	200	215	315	305	465	270	520	190	205	270	235
25	155	370	245	325	125	135	270	305	180	340	680	540
26	110	450	280	215	100	225	205	340	270	450	700	635
27	270	625	290	−45	320	615	260	−305	80	250	295	340
28	135	300	155	450	205	475	365	z±	250	340	565	340
29	z−	425	145	280					170	190	305	250
30	90	225	110	480					55	315	260	440
31	495	515	345	80					225	270	565	475
Means (a)	365	475	391	504	285	419	352	436	297	449	403	462
Means (b)	337	454	399	493	300	370	313	429	297	449	403	409
Mean for day.	(a) 434		(b) 421		(a) 373		(b) 353		(a) 403		(b) 389	

Month.	April. Factor 2·25.				May. Factor 2·21.				June. Factor 2·21.			
Hour. G.M.T.	3h.	9h.	15h.	21h.	3h.	9h.	15h.	21h.	3h.	9h.	15h.	21h.
Day.												
1	245	305	280	420	345	605	160	410	125	330	250	230
2	70	305	490	−340	185	525	505	550	185	240	115	310
3	70	0	140	−650	205	160	z±	−790	115	205	205	320
4	140	375	245	515	135	435	220	355	265	470	435	345
5	185	150	−270	490	230	310	220	685	230	470	z±	480
6	150	395	80	350	380	355	185	605	45	230	205	220
7	280	480	325	420	220	265	220	300	205	55	150	300
8	165	385	220	615	230	560	265	425	90	220	205	285
9	515	455	175	325	185	310	230	265	−755	185	205	250
10	165	410	410	465	185	205	185	330	70	70	115	185
11	585	375	245	515	205	310	230	300	90	160	115	150
12	270	315	175	315	105	205	160	310	170	170	135	265
13	245	350	185	420	125	240	185	310	240	240	205	410
14	200	270	235	375	185	195	205	285	135	−665	55	230
15	70	245	165	z+	240	−220	z±	195	80	205	115	265
16	165	185	235	445	115	240	−300	410	—	185	185	265
17	140	305	280	490	115	150	160	160	230	185	135	250
18	350	−220	z±	−550	80	170	480	435	170	170	125	205
19	−525	z±	z−	z−	125	445	400	330	70	z±	z±	365
20	z−	−990	465	350	185	390	320	410	185	205	195	220
21	165	445	235	465	250	525	460	150	185	170	135	170
22	200	385	0	385	z±	220	205	365	185	230	160	205
23	375	z+	165	130	220	310	z±	345	195	240	185	125
24	150	270	95	z+	—	—	150	365	135	185	320	460
25	−140	z−	−465	z+	250	230	170	300	320	480	310	265
26	130	200	175	10	135	445	390	425	135	320	150	115
27	140	375	z+	420	205	595	470	390	230	250	125	170
28	245	410	−130	385	125	0	195	330	185	170	125	170
29	270	140	290	685	425	320	220	425	—	285	170	195
30	290	430	165	525	185	250	−25	400	195	320	250	135
31					380	185	150	205				
Means (a)	221	318	228	414	205	316	259	359	165	237	181	252
Means (b)	222	321	190	347	203	326	233	365	131	194	182	241
Mean for day.	(a) 295		(b) 270		(a) 285		(b) 282		(a) 209		(b) 187	

NOTE.—The Potential Gradient is reckoned as positive if the potential increases upwards. For indeterminate potential gradient the following notation is used :—z+, Indeterminate, positive value ; z−, Indeterminate, negative value ; z±, Indeterminate in magnitude and sign.

(a) Mean from all positive readings.
(b) Mean from all complete days using both positive and negative readings.

Mean Values for periods of sixty minutes, centred at the exact hours, Mean Greenwich Time.

542. Richmond (Kew Observatory). 1931.

Month.	July. Factor 2·16				August. Factor 2·24.				September. Factor 2·26			
Hour. G.M.T.	3h.	9h.	15h.	21h.	3h.	9h.	15h.	21h.	3h.	9h.	15h.	21h.
Day.												
1	80	310	100	210	325	575	370	475	140	115	185	210
2	155	135	125	310	80	160	185	45	70	− 45	210	480
3	200	235	255	265	90	140	90	140	305	220	270	445
4	125	200	90	200	45	325	300	z±	z±	70	235	490
5	65	135	110	210	105	335	255	z±	45	245	150	410
6	80	180	145	210	90	210	210	300	330	375	185	410
7	180	210	145	135	310	300	195	275	340	550	375	505
8	90	155	65	155	z±	325	210	−695	280	420	255	350
9	165	180	135	180	245	325	160	230	245	455	220	490
10	110	180	180	280	275	335	255	245	165	375	490	610
11	145	210	135	310	230	405	115	370	270	455	185	420
12	65	155	155	200	140	265	210	185	70	365	330	610
13	145	270	10	270	160	195	310	90	410	540	255	350
14	155	225	210	45	185	z±	z±	610	185	470	245	410
15	− 20	210	65	45	345	255	195	395	375	435	255	340
16	− 55	255	145	310	115	z±	z±	195	210	365	255	350
17	180	235	155	z±	105	150	185	370	235	150	165	400
18	55	245	45	310	415	290	175	380	185	235	315	435
19	165	135	135	515	255	345	160	185	255	445	295	295
20	270	310	345	310	160	z±	−335	275	45	350	200	220
21	155	370	165	245	125	220	245	175	270	400	255	305
22	135	190	225	455	185	380	245	370	350	505	340	490
23	255	235	165	280	210	265	160	300	130	470	455	585
24	290	280	180	310	210	520	380	325	455	700	315	505
25	165	300	z±	z±	175	345	325	380	210	410	330	470
26	80	270	100	165	255	370	245	175	220	350	375	480
27	45	400	225	355	140	450	370	415	330	540	235	315
28	235	290	180	435	230	395	440	300	245	400	340	305
29	290	335	280	345	255	415	380	275	220	400	245	305
30	125	370	200	145	175	195	230	150	165	350	280	280
31	225	235	270	445	25	210	220	345				
Means (a)	153	240	158	264	189	311	244	285	233	385	275	409
Means (b)	138	238	158	264	202	309	242	276	233	381	276	406
Mean for day.	(a) 204		(b) 199		(a) 256		(b) 257		(a) 325		(b) 324	

Month.	October. Factor 2·22				November. Factor 2·22.				December. Factor 2·00.			
Hour. G.M.T.	3h.	9h.	15h.	21h.	3h.	9h.	15h.	21h.	3h.	9h.	15h.	21h.
Day.												
1	285	370	240	355	355	285	300	445	350	395	540	495
2	70	140	335	370	365	435	285	320	310	620	455	395
3	275	435	240	435	125	150	205	115	135	− 50	310	330
4	310	320	205	345	45	45	275	445	125	240	195	250
5	150	275	310	795	240	275	380	355	205	550	195	30
6	450	575	230	− 25	355	—	345	435	85	405	735	660
7	− 80	300	240	390	0	445	300	−170	475	650	520	550
8	230	240	265	425	0	0	240	605	495	425	475	415
9	230	320	335	450	435	45	−630	665	415	600	360	475
10	285	370	220	− 10	365	− 25	595	285	330	385	310	445
11	370	565	265	415	185	345	z+	265	185	465	520	330
12	470	690	310	470	320	435	275	400	260	455	465	375
13	205	265	255	405	300	435	310	355	175	415	330	405
14	460	435	320	550	435	435	400	105	145	425	465	465
15	415	460	505	405	105	160	220	390	280	445	270	495
16	265	—	320	335	300	560	640	605	145	850	695	805
17	285	450	345	335	585	505	685	745	560	415	715	505
18	255	345	370	425	250	300	35	z−	830	850	940	1450
19	355	405	265	450	z−	540	720	640	1410	975	620	610
20	150	255	355	495	685	490	505	575	660	580	660	185
21	370	600	435	635	240	540	365	490	165	455	910	560
22	355	575	470	530	700	595	640	390	610	540	540	415
23	415	585	585	735	45	320	490	185	290	330	415	375
24	320	540	300	655	70	540	390	765	240	310	360	395
25	405	470	335	530	330	380	460	380	125	205	105	415
26	370	635	565	530	125	150	265	10	340	465	290	395
27	965	1435	495	10	115	675	355	685	—	—	415	445
28	830	760	265	635	425	585	575	675	135	185	z±	310
29	240	690	255	−470	470	870	525	—	205	z+	425	375
30	80	370	345	655	1030	515	460	410	310	425	455	650
31	320	550	275	530					540	725	630	385
Means (a)	339	481	331	475	310	395	401	434	351	492	477	464
Means (b)	328	481	331	415	310	359	359	409	364	484	481	474
Mean for day	(a) 407		(b) 389		(a) 385		(b) 359		(a) 446		(b) 451	
Annual Means (a)									260	377	311	396
Annual Means (b)									258	368	301	380
									(a) 336		(b) 327	

NOTE.—The Potential Gradient is reckoned as positive if the potential increases upwards. For indeterminate potential gradient the following notation is used :—$z+$, Indeterminate, positive value ; $z-$, Indeterminate, negative value ; $z\pm$, Indeterminate in magnitude and sign.

(a) Mean from all positive readings.

(b) Mean from all complete days, using both positive and negative readings.

POTENTIAL GRADIENT (reduced to level surface): DIURNAL INEQUALITIES (in volts per metre).

The departures from the mean of the day are adjusted for non-cyclic change.

SELECTED QUIET DAYS.

543. Richmond (Kew Observatory). 1931.

Month and Season	Hour. 1	G.M.T 2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Midt.	Non-cyclic change.	Mean values.
	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m	v/m
Jan.	− 30	− 24	− **56**	− 56	− 45	− 43	− 44	− 37	+ 11	+ 37	+ 35	+ 43	+ 22	+ 33	− 2	− 16	+ 16	+ 43	+ **52**	+ 28	+ 50	+ 9	− 19	− 9	− 66	469
Feb.	− 57	− 66	−111	−131	−**136**	−113	− 91	− 26	+ 30	+ 53	+ 36	+ 26	+ 32	+ 7	− 8	− 19	+ 43	+ 91	+120	+**140**	+111	+ 69	+ 27	− 26	− 42	382
Mar.	− 46	− 51	−100	−**121**	− 94	− 43	+ 10	+ 49	+ 37	+ 24	+ 21	− 2	− 30	− 31	+ 8	+ 27	+ 32	+ 59	+ **83**	+ 82	+ 79	+ 40	− 3	− 32	+ 29	366
April	− 40	− 72	− 55	− 74	− 59	− 9	+ 21	+ 48	+ 36	− 4	− 35	− 32	− 56	− 70	− **85**	− 72	− 47	− 18	+107	+138	+**153**	+138	+ 76	+ 15	− 17	335
May	− 14	− 50	− 58	− **77**	− 61	− 19	+ 37	+ 65	+ 76	+ 43	+ 5	− 25	− 35	− 37	− 25	− 10	− 18	− 10	+ 12	+ **76**	+ 65	+ 37	+ 25	+ 1	+ 19	259
June	− 35	− **47**	− 32	− 40	− 43	− 14	+ 29	+ 49	+ **50**	+ 17	0	− 17	− 27	− 24	− 9	+ 23	+ 8	− 2	+ 9	+ 17	+ 39	+ 26	+ 26	− 5	+ 18	224
July	− 10	− 36	− 41	− 46	− 18	+ 8	+ 43	+ 43	+ 29	− 4	− 11	− 41	− 49	− 47	− **51**	− 41	− 34	− 25	+ 9	+ 39	+ 84	+**100**	+ 79	+ 21	+ 17	199
Aug.	− 34	− 39	− 44	− **52**	− 42	+ 17	+ 57	+ **72**	+ 54	+ 23	+ 3	− 20	− 30	− 25	− 30	− 13	− 27	− 5	+ 9	+ 48	+ 35	+ 42	+ 18	− 19	+ 32	277
Sept.	− 50	− 62	− 72	− **92**	− 79	− 45	+ 25	+ 76	+ 95	+ 72	− 8	− 29	− 68	− 47	− 66	− 18	− 1	+ 68	+**118**	+113	+ 70	+ 23	− 0	− 24	+ 9	353
Oct.	− 45	− 43	− 51	− 65	− 73	− 72	− 26	+ 27	+ 61	+ 47	+ 17	− 18	− 59	−**100**	− 58	− 33	+ 26	+ 61	+106	+**110**	+105	+ 72	+ 30	− 23	+ 2	376
Nov.	− 38	− 74	− 59	− 19	− 66	− **76**	− 55	+ 17	+ 19	+ 5	+ 10	+ 1	− 23	− 10	− 15	+ 50	+ **88**	+ 63	+ 65	+ 53	+ 63	+ 28	+ 2	− 29	..	461
Dec.	− 65	− 77	− 96	−**110**	− 84	− **68**	− 42	+ 20	+ 30	+ 43	+ 55	+ 37	+ 43	+ 2	− 27	− 16	+ 22	+ 63	+ 98	+**110**	+ 73	+ 16	+ 4	− 33	+ 33	352
Year	− 39	− 53	− 65	− **74**	− 67	− 40	− 3	+ 34	+ 44	+ 30	+ 11	− 6	− 23	− 29	− 31	− 11	+ 9	+ 32	+ 66	+ **79**	+ 77	+ 50	+ 22	− 14	..	338
Winter	− 47	− 60	− 81	− 79	− **83**	− 75	− 58	− 7	+ 23	+ 35	+ 34	+ 27	+ 19	+ 8	− 13	0	+ 42	+ 65	+ **84**	+ 83	+ 74	+ 41	+ 3	− 24	..	416
Eqnx.	− 45	− 57	− 69	− **88**	− 76	− 42	+ 7	+ 50	+ 57	+ 35	− 1	− 20	− 53	− 62	− 50	− 24	+ 3	+ 43	+103	+**111**	+102	+ 68	+ 26	− 16	..	357
Sumr.	− 23	− 43	− 44	− **54**	− 41	− 2	+ 41	+ **57**	+ 52	+ 20	− 1	− 26	− 35	− 33	− 29	− 10	− 18	− 11	+ 10	+ 45	+ 56	+ 51	+ 37	− 1	..	240

AIR POLLUTION: HOURLY MEANS FOR EACH MONTH (milligrams per cubic metre).

COMPLETE DAYS ONLY.

544. Richmond (Kew Observatory). 1931.

Month and Season.	Hour. 1	G.M.T. 2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Midt.	Mean.	No. of days used.
	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	
Jan.	·19	·17	·18	·16	**·15**	·15	·22	·32	·44	**·48**	·42	·35	·33	·30	·26	·26	·27	·30	·35	·36	·38	·32	·30	·21	·29	28
Feb.	·14	·13	**·10**	**·10**	·11	·12	·15	·21	**·27**	·23	·23	·23	·20	·18	·19	·19	·20	·23	·24	·25	·27	·26	·23	·16	·19	28
Mar.	·17	·16	**·13**	**·13**	·16	·17	·19	·28	**·31**	·23	·19	·17	·16	·14	·14	·16	·17	·21	·24	·26	·28	·28	·23	·20	·20	30
April	·09	·08	**·07**	·08	·08	·09	·11	·13	·11	·11	·11	·10	·10	·10	·10	·10	·10	·11	·15	**·19**	·19	·18	·14	·12	·11	30
May	·06	·07	·06	·07	·09	·09	**·11**	·11	·08	·06	·06	·05	**·03**	·04	·05	·06	·07	·06	·08	·10	·10	·07	·07	·05	·07	30
June	·06	·05	·05	·06	·07	·08	·09	**·09**	·07	·06	·05	·04	·03	**·03**	·04	·04	·04	·05	·04	·05	·06	·06	·06	·06	·05	30
July	·04	·03	**·03**	·04	·05	**·07**	·07	·07	·05	·05	·05	·03	·03	·03	·03	·03	·03	·04	·03	·03	·04	·04	·05	·05	**·04**	31
Aug.	·09	·09	·10	·10	·11	·14	**·17**	·17	·12	·10	·10	·09	·08	**·08**	·08	**·08**	·10	·11	·11	·12	·14	·13	·12	·10	·11	31
Sept.	·15	·14	·13	·13	·13	·16	·21	**·26**	·21	·18	·14	·13	·10	**·09**	·11	·13	·14	·19	·21	·24	·24	·23	·19	·17	·17	27
Oct.	·33	·30	·24	·24	·24	·27	·28	·35	·39	·38	·37	·31	·24	·22	**·21**	·22	·28	·34	·41	·45	**·49**	·49	·45	·40	**·33**	30
Nov.	·23	·22	·18	·16	**·15**	·16	·19	·30	·37	·33	·28	·30	·34	·35	·36	·40	·47	·47	·48	**·51**	·47	·45	·38	·31	·33	30
Dec.	·17	·13	**·12**	·13	·13	·14	·15	·28	·34	·47	·46	·38	·34	·34	·33	·33	·40	·42	·48	**·52**	·50	·43	·37	·25	·32	30
Year	·14	·13	**·12**	·12	·12	·14	·16	·21	·23	·22	·21	·18	·17	·16	·16	·17	·19	·21	·24	·26	**·26**	·24	·21	·17	·18	355
Winter	·18	·16	·15	·14	**·13**	·14	·18	·28	·35	·38	·35	·31	·30	·29	·28	·29	·33	·35	·39	**·41**	·40	·36	·32	·23	·28	116
Eqnx.																										
Spring	·13	·12	**·10**	·11	·12	·13	·15	·21	·21	·17	·15	·14	·13	·12	·12	·13	·14	·16	·19	·23	**·23**	·23	·19	·16	·16	60
Autm.	·24	·22	·19	·19	·19	·21	·25	·31	·30	·28	·26	·22	·17	**·16**	·16	·17	·21	·26	·31	·35	**·37**	·36	·32	·29	·25	57
Sumr.	·06	·06	·06	·07	·08	·10	**·11**	·11	·08	·07	·07	·05	·05	**·04**	·05	·05	·06	·07	·07	·07	·09	·07	·07	·07	·07	122

AIR POLLUTION: DIURNAL INEQUALITIES (milligrams per cubic metre).

The departures from the mean of the day are adjusted for non-cyclic change.

545. Richmond (Kew Observatory). 1931.

Month and Season.	Hour. 1	G.M.T. 2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Midt.	Non-cyclic change.	Range
	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³	mg/m³
Jan.	− ·10	− ·11	− ·11	− ·12	− **·14**	− ·14	− ·07	+ ·03	+ ·15	+ **·20**	+ ·13	+ ·07	+ ·05	+ ·01	− ·03	− ·03	− ·02	+ ·01	+ ·07	+ ·08	+ ·09	+ ·03	+ ·01	− ·07	·00	·34
Feb.	− ·06	− ·06	− **·09**	− **·09**	− ·08	− ·07	− ·04	+ ·01	+ **·08**	+ ·04	+ ·03	+ ·03	+ ·01	− ·01	− ·01	− ·01	+ ·01	+ ·04	+ ·05	+ ·06	+ ·08	+ ·07	+ ·03	− ·03	·00	·17
Mar.	− ·03	− ·03	− **·07**	− **·07**	− ·04	− ·03	− ·01	+ ·08	+ **·11**	+ ·03	− ·01	− ·03	− ·04	− ·06	− ·06	− ·04	− ·03	+ ·01	+ ·04	+ ·06	+ ·08	+ ·08	+ ·03	·00	·00	·18
April	− ·02	− ·03	− **·04**	− ·04	− ·04	− ·02	·00	+ ·02	·00	·00	− ·01	− ·01	− ·01	− ·01	− ·01	− ·02	− ·01	·00	+ ·04	+ **·08**	+ ·07	+ ·06	+ ·03	·00	·00	·12
May	− ·01	− ·01	− ·01	·00	+ ·02	+ ·02	+ **·04**	+ ·04	+ ·01	− ·01	− ·01	− ·02	− **·04**	− ·03	− ·02	− ·01	·00	− ·01	+ ·01	+ ·03	+ ·03	·00	·00	− ·01	·00	·08
June	·00	·00	·00	·00	+ ·01	+ ·02	+ ·03	+ **·03**	+ ·02	+ ·01	− ·01	− ·02	− ·02	− **·03**	− ·02	− ·01	− ·01	− ·01	− ·02	− ·01	+ ·01	·00	·00	+ ·01	·00	·06
July	·00	− ·01	− **·01**	·00	+ ·01	+ **·03**	+ ·03	+ ·03	·00	·00	+ ·01	− ·01	− ·01	− ·01	− ·01	− ·01	− ·01	·00	− ·01	− ·01	·00	·00	·00	·00	·00	**·04**
Aug.	− ·02	− ·02	− ·01	− ·01	·00	+ ·03	+ **·06**	+ ·06	+ ·01	− ·01	− ·01	− ·02	− ·03	− **·03**	− ·03	− **·03**	− ·01	·00	·00	+ ·01	+ ·03	+ ·02	+ ·01	− ·01	·00	·09
Sept.	− ·02	− ·03	− ·04	− ·04	− ·03	− ·01	+ ·05	+ **·09**	+ ·05	+ ·01	− ·02	− ·04	− ·07	− **·07**	− ·05	− ·04	− ·03	+ ·02	+ ·05	+ ·07	+ ·07	+ ·06	+ ·02	·00	·00	·16
Oct.	+ ·03	− ·01	− ·07	− ·07	− ·07	− ·05	− ·04	+ ·03	+ ·07	+ ·06	+ ·05	− ·01	− ·09	− ·11	− **·13**	− ·12	− ·06	·00	+ ·06	+ ·10	+ **·15**	+ ·14	+ ·10	+ ·05	+ ·05	·28
Nov.	− ·10	− ·11	− ·15	− ·16	− **·17**	− ·17	− ·14	− ·03	+ ·04	+ ·01	− ·05	− ·03	+ ·01	+ ·03	+ ·04	+ ·08	+ ·14	+ ·14	+ ·15	+ **·18**	+ ·14	+ ·12	+ ·05	− ·02	·00	·35
Dec.	− ·14	− ·19	− **·19**	− ·18	− ·18	− ·17	− ·16	− ·03	+ ·03	+ ·15	+ ·15	+ ·07	+ ·02	+ ·02	+ ·01	+ ·01	+ ·08	+ ·10	+ ·16	+ **·20**	+ ·17	+ ·11	+ ·04	− ·07	+ ·01	**·39**
Year	− ·04	− ·05	− **·07**	− ·06	− ·06	− ·05	− ·02	+ ·03	+ ·05	+ ·04	+ ·02	·00	− ·02	− ·03	− ·03	− ·02	·00	+ ·03	+ ·05	+ ·07	+ **·08**	+ ·06	+ ·03	− ·01	+ ·01	·15
Winter	− ·10	− ·12	− ·13	− ·14	− **·15**	− ·14	− ·10	·00	+ ·07	+ ·10	+ ·07	+ ·03	+ ·02	+ ·01	·00	+ ·01	+ ·05	+ ·07	+ ·11	+ **·13**	+ ·12	+ ·08	+ ·03	− ·05	·00	·28
Eqnx.	− ·01	− ·03	− ·05	− ·05	− ·05	− ·03	·00	+ ·06	+ ·06	+ ·03	·00	− ·02	− ·05	− **·06**	− **·06**	− ·05	− ·03	+ ·01	+ ·05	+ ·08	+ **·09**	+ ·09	+ ·05	+ ·01	+ ·01	·15
Sumr.	− ·01	− ·01	− ·01	·00	+ ·01	+ ·03	+ **·04**	+ ·04	+ ·01	·00	− ·01	− ·02	− ·02	− **·03**	− ·02	− ·01	− ·01	− ·01	·00	+ ·01	+ ·02	+ ·01	·00	·00	·00	·07

SEISMOLOGICAL DIARY.

Galitzin Seismographs, three components.

546. Richmond (Kew Observatory). Lat. 51° 28′ N. Long. 0° 19′ W. Height above M.S.L. 5 metres. **1931.**

Date.	Phase.	Time. G.M.T.	Period	Amplitudes. A_N.	A_E.	A_Z.	△	Remarks.
Jan.		h. m. s.	s.	μ	μ	μ	km.	
2	L	0 36	...	...	...	...	...	
	M	49	...	...	...	...	...	
	F	1 30	...	...	...	...	...	
2	iPz	10 1 44	...	...	...	...	9540	Dilatation.
	ScPcS	12 10	...	...	...	...	...	Pacific Ocean near
	iS_{NE}	12 21	...	...	...	...	...	Mexico.
	SR_1	17 54	...	...	...	...	...	15°N., 109°W. (J.S.A.)
	L	26·7	...	...	...	...	...	
	M_1	31 41	26	+47	...	...	...	
	M_2	32 17	27	...	−51	...	...	
	L_2	11 50	...	...	...	...	...	} Via Antipodes.
	M	54	...	...	...	...	...	
	F	12 50	...	...	...	...	...	
3	—	— — —	...	...	...	...	...	No records. 3^h 50^m to 7^h 20^m.
4	$e(S)_N$	0 9 36	...	...	...	...	...	Felt in Corinth and Athens.
	iL_{NE}	12 8	...	...	...	...	...	
	M	12 53	17	−29	...	...	...	
	F	30	...	...	...	...	...	
7	eL	2 38	...	...	...	...	...	
	F	50	...	...	...	...	...	
11	e	19 29	...	...	...	...	...	
	F	35	...	...	...	...	...	
12	iS_{EZ}	15 16 29	...	...	...	...	...	
	iz	20 20	...	...	...	...	...	
	F	30	...	...	...	...	...	
12	e	16 5	...	...	...	...	...	
	F	15	...	...	...	...	...	
12	e(P)z	20 45·7	...	...	...	...	...	
	L	21 9	...	...	...	...	...	
	F	22 20	...	...	...	...	...	
15	iPz	2 3 0	...	...	...	...	9010	Dilatation.
	iP_{NE}	3 2	...	...	...	...	...	Amplitudes of iP as read in mm.
	iPRz	6 22	...	...	...	...	...	N E Z
	iPR_E	6 37	...	...	...	...	...	+1·75 −4·15 −10·0
	iS	13 11	...	...	...	...	...	Azimuth = 291°.
	iSR_{1E}	18 24	...	...	...	...	...	Destructive in Mexico.
	L_N	24·5	...	...	...	...	...	16° N., 96° W. (J.S.A.)
	L_E	28 13	...	...	...	...	...	
	Lz	29·3	...	...	...	...	...	
	M_1	31 35	30	...	+470*	...	...	
	M_2	31 43	32	...	...	+470	...	
	M_3	31 56	32	+330	...	...	...	
	M_4	34 29	24	...	...	−370	...	
	M_5	34 29	(29)	>410†	...	...	...	
	M_6	35 40	23	...	...	+350	...	*Negative maxima off chart.
	M_7	35 56	24	...	+490*	...	...	
	M_8	37 12	22	...	...	−370	...	†Positive and Negative maxima off chart.
	M_9	40 18	(26)	>360†	...	...	...	
	M_{10}	40 25	18	...	...	−320	...	
	M_{11}	42 23	16	...	...	+320	...	
	F	6 30	...	...	...	...	...	
15	ez	21 36	...	...	...	...	...	Gulf of Tehuantepec.
	L	46	...	...	...	...	...	14·5° N., 96° W.
	M	58 51	15	+35	...	...	...	(J.S.A.).
	F	22 30	...	...	...	...	...	
15/16	e_N	23 34·0	...	...	...	...	...	
	L	42	...	...	...	...	...	
	F	1 20	...	...	...	...	...	
16‡	e(P)z	19 32·2	...	...	...	...	...	Felt in Mexico.
	L	59	...	...	...	...	...	16°N., 96° W.
	F	20 40	...	...	...	...	...	(U.S.C.G.S.)
17‡	L	3 23	...	...	...	...	...	Gulf of California.
	M_1	33 35	20	−53	...	...	...	25° N., 110° W.
	M_2	37 41	16	...	−40	...	...	(J.S.A.).
	M_3	37 44	14	...	...	−39	...	
	F	4 30	...	...	...	...	...	
19‡	eL	17 22	...	...	...	...	...	
	F	50	...	...	...	...	...	
24‡	e	14 38	...	...	...	...	...	
	F	15 30	...	...	...	...	...	

Date.	Phase.	Time. G.M.T.	Period	Amplitudes. A_N.	A_E.	A_Z.	△	Remarks.
Jan.		h. m. s.	s.	μ	μ	μ	km.	
27	eP	20 20 59	...	...	...	...	8200	Amplitudes of P as read in mm.
	i	21 5	...	...	...	...	...	N. E. Z.
	$iPcP_E$	21 31	...	...	...	...	...	(+1·4) (+3·7) −4·0
	iPR_1	23 45	...	...	...	...	...	Azimuth about 70°.
	ePR_2	25 37	...	...	...	...	...	North Burma.
	iS_{NE}	30 29	...	...	...	...	...	26° N., 97° E. (Strasbourg).
	L	45	...	...	...	...	...	
	M_1	46 22	42	+520	...	...	...	*Several maxima off the chart.
	M	50–57	(23)	>400*	...	...	...	
	M	53 36	23	...	+400	...	...	
	F	23 50	...	...	...	...	...	
28	iPz	5 59 27	...	...	...	...	2010	Destructive at Koritza, Albania. 40·5° N., 20·5° E. (Strasbourg).
	iS	6 2 51	...	...	...	...	...	
	iL_{NE}	4 54	...	...	...	...	...	
	M	5 33	15	−44	...	...	...	
	F	20	...	...	...	...	...	
28/29	iPR_1z	21 43 16	...	...	...	...	(12500)	Pacific Ocean, north of New Guinea. 15° N., 144° E. (U.S.C.G.S.).
	eScPcS	50 38	...	...	...	...	...	
	e(S)	51 7	...	...	...	...	...	
	iPS	53 0	...	...	...	...	...	
	ePPS	54 (2)	...	...	...	...	...	
	iSR_1	58 57	...	...	...	...	...	
	L_{NE}	22 11	...	...	...	...	...	
	Lz	17	...	...	...	...	...	
	M_1	20 19	32	...	−180	...	...	
	M_2	22 37	30	...	+155	...	...	
	M_3	25 4	28	...	−145	...	...	
	M_4	28 43	22	...	...	−100	...	
	M_5	28 50	22	−120	...	...	...	
	F	0 50	...	...	...	...	...	
29	eL	1 31	...	...	...	...	...	
	F	50	...	...	...	...	...	
29	eL	17 50	...	...	...	...	...	
	F	18 10	...	...	...	...	...	
Feb. 2/3	iP^1z	23 6 53	...	...	...	...	(18900)	Dilatation.
	iP^1_2z	8 5	...	...	...	...	...	P^1_2 by path of greater deviation.
	$iPcPcS_N$	9 57	...	...	...	...	...	
	iPR_{1NZ}	11 51	...	...	...	...	...	
	$eScPcS_{EZ}$	14 7	...	...	...	...	...	Destructive in New Zealand (Napier & Hastings, etc.).
	ePR_{2NE}	15 50	...	...	...	...	...	
	$iScPcPcS_N$	18 32	...	...	...	...	...	
	iScPcSP	22 6	...	...	...	...	...	39° 20′ S., 177° 0′ E. (Wellington).
	iSR_{1E}	32 27	...	...	...	...	...	
	i_N	34 58	...	...	...	...	...	By path corresponding to △ > 180°.
	iSR_{1E}	36 50	...	...	...	...	...	
	i_N	38 44	...	...	...	...	...	
	iSR_{2E}	39 58	...	...	...	...	...	Ditto.
	iSR_{2E}	43 38	...	...	...	...	...	
	iL_E	57 24	...	...	...	...	...	
	L_{NZ}	0 7	...	...	...	...	...	
	M_1	16 48	24	...	+150	...	...	
	M_2	20 7	23	−165	...	...	...	
	M_3	21 22	21	...	...	−220	...	
	M_4	22 41	23	...	−200	...	...	
	M_5	24 17	22	−180	...	...	...	
	M_6	24 34	20	...	...	+220	...	
	M_7	25 4	21	...	+150	...	...	
	M_8	26 2	19	...	...	+220	...	
	M_9	26 20	21	−175	...	...	...	
	M_{10}	28 27	21	...	+125	...	...	
	F	3 55	...	...	...	...	...	
7	eL	4 14	...	...	...	...	...	
	F	25	...	...	...	...	...	
8	L	3 14	...	...	...	...	...	
	F	50	...	...	...	...	...	
9	ez	3 0	...	...	...	...	...	
	F	10	...	...	...	...	...	
10	eL	2 4	...	...	...	...	...	
	F	15	...	...	...	...	...	
10	ePz	6 48 32	...	...	...	...	(10800)	South of Sumatra, 5° S., 102° E. (J.S.A.).
	e_E	59 32	...	...	...	...	...	
	$e(S)_N$	7 0 4	...	...	...	...	...	
	e_E	2 13	...	...	...	...	...	

‡ Confused by wind and microseisms.

Galitzin Seismographs, three components.

546. Richmond (Kew Observatory). Lat. 51° 28′ N. Long. 0° 19′ W. Height above M.S.L. 5 metres. **1931.**

Date.	Phase.	Time. G.M.T.	Period	Amplitudes. A_N.	A_E.	A_Z.	△	Remarks.
Feb.		h. m. s.	s.	μ	μ	μ	km.	
10	e(SR$_1$)$_E$	8 39	...	...	...	...	...	Record badly distur-
cont.	e$_E$	14·7	...	...	...	...	...	bed by wind and
	e$_E$	20·1	...	...	...	...	...	microseisms.
	L$_E$	26	...	...	...	...	...	
	L$_Z$	39	...	...	...	...	...	
	M$_1$	40 0	22	...	+46	...	...	
	M$_2$	46 25	18	−37	...	...	...	
	M$_3$	50 20	16	...	...	+34	...	
	M$_4$	51 13	18	...	−47	...	...	
	F	9 45	...	...	...	...	...	
13	iP^1$_Z$	1 47 38	...	...	...	...	(19000)	Felt in New Zealand.
	eScPcPcS$_N$	59·2	...	...	...	...	...	39·8° S., 177·8° E.
	iSR$_1$$_E$	2 13 14	...	...	...	...	...	(Wellington).
	iSR$_1$$_N$	13 49	...	...	...	...	...	Record disturbed by
	i$_N$	14 16	...	...	...	...	...	wind and microseisms.
	i$_N$	18 46	...	...	...	...	...	
	L$_{NE}$	41	...	...	...	...	...	
	L$_Z$	52·1	...	...	...	...	...	
	M$_1$	3 6 43	21	...	...	+87	...	
	M$_2$	6 52	23	−105	...	...	...	
	M$_3$	11 7	19	...	...	+73	...	
	M$_4$	15 39	18	...	−61	...	...	
	M$_5$	18 25	18	...	+61	...	...	
	M$_6$	18 47	17	...	...	+67	...	
	F	4 30	...	...	...	...	...	
14	i$_E$	14 23 48	...	...	...	...	...	No Z record.
	L	53	...	...	...	...	...	
	M	15 7	...	...	...	...	...	
	F	16 10	...	...	...	...	...	
16	eL	19 30	...	...	...	...	...	
	F	20 0	...	...	...	...	...	
18	eL	21 25	...	...	...	...	...	
	F	35	...	...	...	...	...	
19	e$_Z$	18 4·0	...	...	...	...	...	
	e$_{NE}$	6·1	...	...	...	...	...	
	L	28	...	...	...	...	...	
	F	20 30	...	...	...	...	...	
20	i$_Z$	5 44 40	...	...	...	...	8550	Dilatation.
	iP	44 42	...	...	...	...	...	Amplitudes of iP as
	ipP§	46 1	...	...	...	...	...	read in mm.
	esP§	46 44	...	...	...	...	...	N E Z
	e(PR$_1$)$_{NZ}$	47 47	...	...	...	...	...	+1·2 +0·9 −5·5
	e(PR$_2$)$_{NZ}$	50 35	...	...	...	...	...	Azimuth=39°±5°.
	iS	54 1	...	...	...	...	...	Deep focus (+0·06).
	iSP	54 41	...	...	...	...	...	Epicentre 44·3° N.,
	isS$_E$§	56 27	...	...	...	...	...	135·5° E.
	isS$_N$§	56 31	...	...	...	...	...	Eastern Coast of Si-
	L	6 4·4	...	...	...	...	...	beria.
	M$_1$	5 28	20	−24	...	...	...	§The notation used for
	M$_2$	5 54	22	...	...	+27	...	these reflected waves
	M$_3$	8 6	23	...	+12	...	...	is that given by
	F	7 25	...	...	...	...	...	F. J. Scrase, London, Proc. Royal Soc., A. 132 (1931).
25	eL	18 34	...	...	...	...	...	
	F	50	...	...	...	...	...	
27	e$_E$	10 2 44	...	...	...	...	...	East Indies, near 2° N.,
	e	6 1	...	...	...	...	...	126° E. (Manila).
	L$_{NE}$	30	...	...	...	...	...	
	M$_N$	44	...	...	...	...	...	
	F	11 30	...	...	...	...	...	
Mar. 2	e(P^1)$_Z$	2 38 6	...	...	...	...	...	Near New Caledonia.
	i$_Z$	38 11	...	...	...	...	...	24° S., 167° E. (Wel-
	i$_Z$	38 15	...	...	...	...	...	lington).
	(PR$_1$)$_{NZ}$	41 45	...	...	...	...	...	
	e$_N$	52 7	...	...	...	...	...	
	e(PSS)$_Z$	3 1 1	...	...	...	...	...	
	e$_E$	21 38	...	...	...	...	...	
	L$_{NE}$	24	...	...	...	...	...	
	M$_N$	36	...	...	...	...	...	
	F	4 25	...	...	...	...	...	
5	eL	18 54	...	...	...	...	...	Felt at Reykjavik.
	F	19 5	...	...	...	...	...	

Date.	Phase.	Time. G.M.T.	Period	Amplitudes. A_N.	A_E.	A_Z.	△	Remarks.
Mar.		h. m. s.	s.	μ	μ	μ	km.	
7	iP	0 21 7	...	...	...	...	2070	Compression.
	iS$_{NE}$	24 36	...	...	...	...	...	Destructive in the Bal-
	iS$_Z$	24 38	...	...	...	...	...	kans.
	iL$_Z$	26 11	...	...	...	...	...	Amplitudes of iP as
	iL$_N$	26 32	...	...	...	...	...	read in mm.
	iL$_E$	26 45	...	...	...	...	...	N. E. Z.
	M$_1$	27 42	11	+54	...	...	...	+1·3 −3·4 +3·5
	M$_2$	28 42	14	...	+42	...	...	Azimuth about 110°.
	M$_3$	29 5	8	...	...	−49	...	
	F	50	...	...	...	...	...	Epicentre 41·5° N., 22° E. (Athens).
8	iP	1 54 41	...	...	...	...	2070	Destructive in the Bal-
	iS	58 10	...	...	...	...	...	kans.
	L$_N$	59 19	...	...	...	...	...	Amplitudes of iP as
	L$_E$	59 33	...	...	...	...	...	read in mm.
	M$_1$	2 0–1	13	(260)	...	...	...	N. E. Z.
	M$_2$	0 25	8	...	...	+98	...	+10·6 −18·7 +29·7
	M$_3$	1 25	18	...	...	+310	...	Azimuth about 118°.
	M$_4$	1 58	15	...	+170	...	...	
	M$_5$	2 32	10	...	...	+175	...	Epicentre near 41° N.,
	F	3 50	...	...	...	...	...	21° E.
8	eL	13 21	...	...	...	...	...	
	F	14 0	...	...	...	...	...	
9	iP	4 1 22	...	...	...	...	9130	Compression.
	iPR$_1$	4 31	...	...	...	...	...	Felt in Japan.
	iS	11 39	...	...	...	...	...	
	PS$_N$	12 46	...	...	...	...	...	Epicentre 42° N.,
	SR$_1$$_E$	17 17	...	...	...	...	...	141° E. (Strasbourg).
	e$_N$	17·9	...	...	...	...	...	
	L$_{NE}$	26	...	...	...	...	...	
	L$_Z$	31	...	...	...	...	...	
	M$_1$	32 49	32	+270	...	...	...	
	M$_2$	34 29	28	...>	+470†	...	...	
	M$_3$	39—42	22	>300*	...	+540	...	†Negative maximum
	M$_4$	41 8	21	...	...	...	...	off chart.
	F	6 45	...	...	...	...	...	*Positive and negative maxima off chart.
11	eP$_Z$	12 40(43)	...	...	...	...	(10330)	Near Marianne Islands.
	eS$_{EN}$	51 56	...	...	...	...	...	19° N., 145° E. (J.S.A.).
	L$_{NE}$	13 14	...	...	...	...	...	
	M$_1$	16 22	32	...	−16	...	...	
	L$_Z$	20	...	...	...	...	...	
	M$_2$	29 53	19	...	+19	...	...	
	M$_3$	30 36	17	+18	...	...	...	
	M$_4$	30 49	17	...	...	+19	...	
	M$_5$	37 30	17	...	+18	...	...	
	F	15 10	...	...	...	...	...	
12	e$_Z$	11 7	...	...	...	...	...	Near Marianne Islands.
	L$_{NE}$	27	...	...	...	...	...	23° N., 147° E.
	L$_Z$	33	...	...	...	...	...	(Manila).
	F	12 25	...	...	...	...	...	
12	eL	20 1	...	...	...	...	...	
	F	30	...	...	...	...	...	
12	e	21 58	...	...	...	...	...	Very small.
	F	22 10	...	...	...	...	...	
15	eL	17 18	...	...	...	...	...	Confused by micro-
	F	40	...	...	...	...	...	seisms.
18	eP	8 16 37	...	...	...	...	(11750)	Chile.
	PR$_1$	20 51	...	...	...	...	...	34° S., 72° W.
	ScPcS	27 13	...	...	...	...	...	(U.S.C.G.S.).
	PPS	30 19	...	...	...	...	...	
	i$_Z$	33 23	...	...	...	...	...	
	SR$_1$	36 7	...	...	...	...	...	
	L	51	...	...	...	...	...	
	M$_1$	9 0 35	18	...	...	+87	...	
	M$_2$	2 19	19	−52	−57	...	...	
	M$_3$	2 27	19	...	+59	...	...	
	M$_4$	5 29	17	...	...	+77	...	
	M$_5$	7 24	18	...	−54	...	...	
	M$_6$	8 53	18	−37	...	...	...	
	M$_7$	13 51	25	−28	−64	...	...	
	F	11 30	...	...	...	...	...	
18	e(P)$_Z$	20 28	...	...	...	...	(12000)	Destructive in the
	e	35 23	...	...	...	...	...	Philippines.

SEISMOLOGICAL DIARY.—*continued.*

Galitzin Seismographs, three components.

545. Richmond (Kew Observatory). Lat. 51° 28′ N. Long. 0° 19′ W. Height above M.S.L. 5 metres. **1931.**

Date.	Phase.	Time. G.M.T.	Period	Amplitudes. A_N.	A_E.	A_Z.	△	Remarks.
		h. m. s.	s.	μ	μ	μ	km.	
Mar. 18 cont.	eScPcS	38 27	...	...	...	...	...	
	e	51 17	...	...	...	...	...	
	L_{NE}	21 1	...	...	...	...	...	
	L_Z	6	...	...	...	...	...	6° N., 128° E. (Strasbourg).
	M_1	7 10	39	−75	...	...	...	
	M_2	9 29	33	...	+32	...	...	
	M_3	16 0	23	...	+33	...	...	
	M_4	16 20	23	−39	...	...	...	
	M_5	24 16	17	...	...	−14	...	
	F	23 0	...	...	...	...	...	
19	iP	6 38 31	...	...	...	...	9730	Compression. North of Formosa.
	iPR_1	42 4	...	...	...	...	...	23° N., 123° E. (Strasbourg).
	iScPcS	48 48	...	...	...	...	...	
	S	49 17	...	...	...	...	...	
	PS	50 34	...	...	...	...	...	
	SR_{1NE}	55 35	...	...	...	...	...	
	L_{NE}	7 10	...	...	...	...	...	
	L_Z	14	...	...	...	...	...	
	M_1	19 46	24	...	−36	...	...	
	M_2	22 33	23	+43	...	...	...	
	M_3	24 35	18	...	+31	...	...	
	M_4	24 38	16	...	...	−36	...	
	M_5	24 49	15	+30	...	...	...	
	M_6	26 31	18	...	...	−31	...	
	F	8 55	...	...	...	...	...	
22	e	4 0	...	...	...	...	...	
	F	5	...	...	...	...	...	
22	eL	15 58	...	...	...	...	...	
	F	16 15	...	...	...	...	...	
24	eL	13 17	...	...	...	...	...	
	F	30	...	...	...	...	...	
28	eP^1_{NZ}	12 57 22	...	...	...	...	(14000)	Felt in Northern Australia.
	ePR_{1NZ}	58 47	...	...	...	...	...	7° S., 138° E. (J.S.A.).
	i_N	13 5 19	...	...	...	...	...	
	iPS_N	8 55	...	...	...	...	...	
	ePR_{2NZ}	14 58	...	...	...	...	...	No record of E–W component.
	e_Z	15 43	...	...	...	...	...	
	i_N	16 11	...	...	...	...	...	
	eSR_N	20 51	...	...	...	...	...	
	L_N	28·8	...	...	...	...	...	
	L_Z	36	...	...	...	...	...	
	M_1	39 9	38	−55	...	...	...	
	M_2	42 34	31	−37	...	...	...	
	M_3	51 54	17	...	...	−20	...	
	M_4	54 14	18	...	...	+27	...	
	M_5	14 49 32	19	...	...	+15	...	
	F	15 35	...	...	...	...	...	
29	e(P)	18 4 19	...	...	...	...	...	
	eL	13	...	...	...	...	...	
	F	55	...	...	...	...	...	
30	e	14 33	...	...	...	...	...	
	F	50	...	...	...	...	...	
31	e_Z	16 17	...	...	...	...	...	Destructive in Managua, Nicaragua.
	L_N	36	...	...	...	...	...	12° N., 86° W. (U.S.C.G.S.).
	L_{EZ}	40	...	...	...	...	...	
	M	51	...	...	...	...	...	
	F	17 20	...	...	...	...	...	
April 1	e	13 55	...	...	...	...	...	Small; record disturbed by wind and microseisms.
	F	14 5	...	...	...	...	...	
1–2	—	— — —	...	...	...	...	...	No records :—22ʰ 59ᵐ to 9ʰ 16ᵐ.
3	eP_{EZ}	2 9 19	...	...	...	...	9970	
	$eScPcS_E$	19 47	...	...	...	...	...	
	eS_N	20 13	...	...	...	...	...	
	ePS_E	21 24	...	...	...	...	...	
	L	40	...	...	...	...	...	
	F	3 25	...	...	...	...	...	
3	e	6 10	...	...	...	...	...	
	F	40	...	...	...	...	...	

Date.	Phase.	Time. G.M.T.	Period	Amplitudes. A_N.	A_E.	A_Z.	△	Remarks.
		h. m. s.	s.	μ	μ	μ	km.	
April 3	e_Z	22 5	...	...	...	...	...	Felt in New Zealand-40° S., 174° E. (Wellington).
	L	14	...	...	...	...	...	
	M	14 54	21	...	− 8	...	...	
	F	45	...	...	...	...	...	
3/4	iP_{ZN}	23 37 54	...	...	...	...	...	Probably deep focus.
	e_Z	40 29	...	...	...	...	...	
	e_{NE}	40 33	...	...	...	...	...	
	L	57	...	...	...	...	...	Badly developed.
	F	1 0	...	...	...	...	...	
5	e_{NE}	22 35	...	...	...	...	...	
	F	40	...	...	...	...	...	
6	iP^1_Z	7 8 51	...	...	...	...	14500	Solomon Islands.
	ePR_1	11 8	...	...	...	...	...	8° S., 154° E. (Wellington).
	$iPcPcS_{NE}$	12 16	...	...	...	...	...	
	L_{NE}	48	...	...	...	...	...	
	L_Z	54	...	...	...	...	...	
	M_1	58 3	25	...	−10	...	...	
	M_2	58 38	27	−22	...	...	...	
	M_3	8 1 7	26	...	...	+20	...	
	F	9 40	...	...	...	...	...	
6	e	13 5	...	...	...	...	...	
	F	15	...	...	...	...	...	
7	e	0 56	...	...	...	...	...	
	F	1 7	...	...	...	...	...	
7	eL	8 35	...	...	...	...	...	
	F	55	...	...	...	...	...	
8	e	19 33 19	...	...	...	...	...	
	e_E	39 (10)	...	...	...	...	...	
	L_{NE}	20 4	...	...	...	...	...	
	L_Z	12	...	...	...	...	...	
	F	35	...	...	...	...	...	
9/10	iP	23 13 29	...	...	...	...	9310	Compression.
	iScPcS	23 35	...	...	...	...	...	
	iS	23 55	...	...	...	...	...	
	L_E	43	...	...	...	...	...	
	L_{NZ}	45	...	...	...	...	...	
	M	48 0	27	− 9	− 6	...	...	
	F	0 25	...	...	...	...	...	
11	e	1 31·5	...	...	...	...	...	Felt in Italy.
	F	36	...	...	...	...	...	
11	e	16 12	...	...	...	...	...	Felt in Italy.
	eL	18	...	...	...	...	...	
	F	40	...	...	...	...	...	
12	$e(P^1)$	2 21 17	...	...	...	...	...	Near Loyalty Islands. 22° S., 171° E. (Wellington).
	e(ScPcP)	24·3	...	...	...	...	...	
	e_{NE}	43·9	...	...	...	...	...	
	L_{NE}	3 23	...	...	...	...	...	
	L_Z	29	...	...	...	...	...	
	M	29 27	20	− 5	...	...	...	
	F	4 25	...	...	...	...	...	
13/14	—	— — —	...	...	...	...	...	No records :—23ʰ 13ᵐ to 9ʰ 8ᵐ.
15	iP_{ZE}	17 3 9	...	...	...	...	2100	Compression.
	eS_{NE}	6 41	...	...	...	...	...	Amplitudes of iP as read in mm. :—
	L	7·7	...	...	...	...	...	N. E. Z.
	M_1	8 39	19	...	−25	...	...	0·0 +1·6 +1·0
	M_2	8 40	13	+19				Azimuth about West.
	M_3	8 44	18	...	...	−29	...	Epicentre :—46° N., 28° W. (J.S.A.).
	M_4	9 16	13	+20	...	...	...	Atlantic Ocean North of the Azores.
	F	18 15	...	...	...	...	...	
19	e	2 23	...	...	...	...	...	Pacific Ocean off Mexico.
	eL	41	...	...	...	...	...	21° N., 110° W. (J.S.A.).
	F	3 40	...	...	...	...	...	
20	e	20 43	...	...	...	...	...	
	eL	47	...	...	...	...	...	
	F	21 5	...	...	...	...	...	

SEISMOLOGICAL DIARY.—*continued.*

Galitzin Seismographs, three components.

545. Richmond (Kew Observatory). Lat. 51° 28′ N. Long. 0° 19′ W. Height above M.S.L. 5 metres. **1931.**

Date.	Phase.	Time. G.M.T.	Period	Amplitudes. A_N.	A_E.	A_Z.	△	Remarks.
April		h. m. s.	s.	μ	μ	μ	km.	
21	e	14 24·6	...	...	...	...	...	Felt in Italy.
	F	30	...	...	...	...	...	
22	eP^{1}z	0 8·2	...	...	...	...	(19000)	Felt in Hawkes Bay,
	eScPcSN	15·2	...	...	...	...	...	New Zealand.
	ez	22·5	...	...	...	...	...	39° S., 178° E. (Wel-
	eLE	1 9	...	...	...	...	...	lington).
	eLNZ	12	...	...	...	...	...	
	M_1	27 19	20	−4	...	...	...	
	M_2	30 10	19	...	+5	...	...	
	F	2 40	...	...	...	...	...	
24	iP^{1}z	17 41 26	...	...	...	...	(14000)	Solomon Islands.
	iPR$_1$	43 44	...	...	...	...	...	4·5° S., 158·5° E.
	iScPcP	44 49	...	...	...	...	...	(Manila).
	LNE	16	...	...	...	...	...	
	M_1	24 9	35	...	−42	...	...	
	Lz	26	...	...	...	...	...	
	M_2	31 11	29	−65	...	...	...	
	M_3	31 46	27	...	+34	...	...	
	M_4	32 58	27	...	...	−51	...	
	M_5	38 46	23	...	...	+42	...	
	M_6	38 51	24	+39	...	...	...	
	F	20 40	...	...	...	...	...	
26	e	5 10	...	...	...	...	...	
	F	30	...	...	...	...	...	
26	e	16 38	...	...	...	...	...	
	F	50	...	...	...	...	...	
27	iPz	16 57 29	...	...	...	...	3660	Dilatation.
	iPE	57 30	...	...	...	...	...	Amplitudes of iP as
	ePR	58 45	...	...	...	...	...	read in mm. :—
	iS	17 2 56	...	...	...	...	...	N. E. Z.
	ez	5 27	...	...	...	...	...	0·0 +1·0 −2·3
	iLN	5·6	...	...	...	...	...	Azimuth about East,
	LE	7	...	...	...	...	...	giving epicentre near
	Lz	12	...	...	...	...	...	41° N., 45° E. (Cau-
	M_1	14 51	19	+41	...	...	...	casia).
	M_2	15 17	15	...	+27	...	...	
	M_3	15 19	15	...	...	−32	...	
	F	19 0	...	...	...	...	...	
May 1	ePz	22 48 12	...	...	...	...	...	Venezuela. 8° N.,
	eNE	23 5·9	...	...	...	...	...	70° W. (U.S.C.G.S.).
	eL	13	...	...	...	...	...	
	F	55	...	...	...	...	...	
6	eL	16 23	...	...	...	...	...	
	F	17 15	...	...	...	...	...	
6	e	17 57	...	...	...	...	...	
	F	18 6	...	...	...	...	...	
6	e	20 35	...	...	...	...	...	
	F	51	...	...	...	...	...	
7	e	1 14	...	...	...	...	...	
	F	27	...	...	...	...	...	
7	e	6 35	...	...	...	...	...	
	F	55	...	...	...	...	...	
8	e	18 2	...	...	...	...	...	Very small.
	F	15	...	...	...	...	...	
9	ez	11 8	...	...	...	...	...	Gulf of California.
	eLNE	11	...	...	...	...	...	24° N., 109° W.
	eLz	16	...	...	...	...	...	(J.S.A.).
	F	50	...	...	...	...	...	
10	e	10 57	...	...	...	...	...	Felt in Italy.
	F	11 2	...	...	...	...	...	
10	eNE	20 6	...	...	...	...	...	
	L	24	...	...	...	...	...	
	F	55	...	...	...	...	...	
12	iPz	1 48 46	...	...	...	...	8290	Kamtchatka.
	iSN	58 20	...	...	...	...	...	54° N., 161° E.
	eSE	58 21	...	...	...	...	...	(J.S.A.).
	eNE	58 53	...	...	...	...	...	

Date.	Phase.	Time. G.M.T.	Period	Amplitudes. A_N.	A_E.	A_Z.	△	Remarks.
May.		h. m. s.	s.	μ	μ	μ	km.	
12 cont.	LNE	2 7·9	...	...	...	...	...	
	Lz	15						
	F	3 0	...	...	...	...	...	
12	e	10 41	...	...	...	...	...	
	F	11 0	...	...	...	...	...	
13/14	eL	23 52	...	...	...	...	...	
	F	0 10	...	...	...	...	...	
16	e	15 57	...	...	...	...	...	Very small.
	F	16 5	...	...	...	...	...	Felt in Italy.
16	iPEZ	20 59 53	...	...	...	...	9050	Southern Mexico.
	iz	21 0 5	...	...	...	...	...	16° N., 96° W.
	eS	10 6	...	...	...	...	...	(U.S.C.G.S.).
	LNE	23	...	...	...	...	...	
	Lz	26	...	...	...	...	...	
	M_1	32 23	24	...	+7	...	...	
	M_2	35 19	20	...	...	−5	...	
	M_3	36 42	22	+4	...	...	...	
	F	22 45	...	...	...	...	...	
17	e	10 15	...	...	...	...	...	
	F	35	...	...	...	...	...	
17	e	13 31	...	...	...	...	...	
	F	14 10	...	...	...	...	...	Very small.
17	e	15 45	...	...	...	...	...	
	F	16 0	...	...	...	...	...	
18	e	11 32	...	...	...	...	...	
	F	40	...	...	...	...	...	
20	iPz	2 27 0	...	...	...	...	1900	Amplitudes of iP as
	iPNE	27 1	...	...	...	...	...	read in mm. :—
	iN	27 54	...	...	...	...	...	N. E. Z.
	i	29 52	...	...	...	...	...	+30·6 +25·0 +35·2
	iN	30 2	...	...	...	...	...	Azimuth=221°.
	iSN	30 12	...	...	...	...	...	Eastern Atlantic Ocean.
	iSE	30 13	...	...	...	...	...	37° N., 16° W.
	iSz	30 18	...	...	...	...	...	(U.S.C.G.S.).
	iE	30 22	...	...	...	...	...	Large movements of
	iz	30 35	...	...	...	...	...	horizontal compon-
	iLz	31 52	...	...	...	...	...	ents, 30·5^m to 34^m;
	M_1	33 26	...	...	...	...	...	trace too faint for
	M_2	37 34	13	...	...	>+250†		these to be followed.
	M_3	38 5	12	−260	...	...	...	
	M_4	39 31	12	...>	+190†	...	...	†Negative maxima off
	M_5	40 2	12	+230	...	...	...	chart.
	M_6	40 55	11	...	...<	−250†	...	
	eL$_2$	5 27	15	...>	+195†	...	...	Via Antipodes.
	M_7	31 48	25	...	+5	...	...	
	F	6 30	...	...	...	...	...	
20	eP^{1}z	22 12·6	...	...	...	...	(11500)	Pacific Ocean off Chile.
	eScPcSE	18·5	...	...	...	...	...	28° S., 74° W.
	LNE	41	...	...	...	...	...	(U.S.C.G.S.).
	Lz	48	...	...	...	...	...	
	F	23 25	...	...	...	...	...	
24	e	0 38	...	...	...	...	...	Felt in Northern Min-
	eLNE	1 2	...	...	...	...	...	danao.
	eLz	9	...	...	...	...	...	
	MN	10 23	23	+4	...	...	...	
	F	45	...	...	...	...	...	
27	e	1 24	...	...	...	...	...	
	F	35	...	...	...	...	...	
27	e	6 45	...	...	...	...	...	
	F	7 10	...	...	...	...	...	
27	e	7 32	...	...	...	...	...	
	L	44	...	...	...	...	...	
	F	8 5	...	...	...	...	...	
27	e	11 7	...	...	...	...	...	
	F	30	...	...	...	...	...	
28	e	5 28	...	...	...	...	...	
	F	40	...	...	...	...	...	

SEISMOLOGICAL DIARY.—*continued.*

Galitzin Seismographs, three components.

546. Richmond (Kew Observatory). Lat. 51° 28′ N. Long. 0° 19′ W. Height above M.S.L. 5 metres. **1931.**

Date.	Phase.	Time. G.M.T.	Period	A_N.	A_E.	A_Z.	△	Remarks.
		h. m. s.	s.	μ	μ	μ	km.	
May 28	e(P)EZ	18 45 54	...	...	...	...	...	
	eL	19 20	...	...	...	...	...	
	F	20 15	...	...	...	...	...	
June 1	e(P^1)Z	12 17 12	...	...	...	...	...	Solomon Islands (Manila).
	eZ	26 4	...	...	...	...	...	
	eNE	31 54	...	...	...	...	...	
	LNE	53	...	...	...	...	...	
	LZ	13 1	...	...	...	...	...	
	M_1	11 5	22	+ 4	...	...	...	
	M_2	11 19	22	...	...	+ 3	...	
	M_3	12 8	24	...	+ 5	...	...	
	F	14 10	...	...	...	...	...	
2	e	3 2	...	...	...	...	...	
	LNE	22	...	...	...	...	...	
	M	25 1	22	...	− 3	...	...	
	LZ	28	...	...	...	...	...	
	F	45	...	...	...	...	...	
2	eLE	5 1	...	...	...	...	...	
	eLNZ	6	...	...	...	...	...	
	F	15	...	...	...	...	...	
7	iP	0 26 0	...	−1·7*	−0·7*	+2·7*	270	Azimuth=22° ±2°, giving epicentre 53·8° N., 1·2° E. (South Dogger Bank).
	iPG	26 8	...	−4·7*	−1·7*	+8·0*	...	
	iSEZ	26 30	...	...	...	...	...	
	iSN	26 32	...	...	...	...	...	
	i	26 34	...	...	...	...	...	Widely felt in Britain and Western Europe.
	iSG	26 42	...	...	...	...	...	
	M	27	...>	135*	>100*	>120*	...	Traces too faint for accurate measurement 0^h $26{\cdot}7^m$ to $27{\cdot}4^m$.
	F	1 5	...	...	...	...	...	*Ranges as measured im mm.
9	e	5 56	...	...	...	...	...	
	eL	6 1	...	...	...	...	...	
	F	20	...	...	...	...	...	
9‡	e	13 0	...	...	...	...	...	
	F	35	...	...	...	...	...	
9‡	eP^1Z	14 11 53	...	...	...	...	...	North East of New Zealand.
	eNE	18·4	...	...	...	...	...	36° S., 177° W. (Wellington).
	LNE	15 5	...	...	...	...	...	
	LZ	12·7	...	...	...	...	...	
	M	16 33	19	...	...	+ 7	...	
	F	Overlapped by following shock.						
9‡	eP^1Z	16 18 (31)	...	...	...	...	...	New Zealand.
	eNE	41·9	...	...	...	...	...	38° S., 174° W. (Wellington).
	L	17 21	...	...	...	...	...	
	M_1	27 6	20	...	− 7	...	...	
	M_2	29 24	19	...	...	+ 7	...	
	F	18 40	...	...	...	...	...	
10	e	17 7	...	...	...	...	...	Felt in Italy.
	F	10	...	...	...	...	...	
13	eZ	15 53 46	...	...	...	...	...	
	eNE	57 16	...	...	...	...	...	
	eZ	57 35	...	...	...	...	...	
	L	16 56	...	...	...	...	...	
	M_1	17 5 23	19	...	...	+ 3	...	
	M_2	5 38	19	...	+ 2	...	...	
	M_3	8 59	18	− 3	...	...	...	
	F	18 5	...	...	...	...	...	
15	e	11 37	...	...	...	...	...	Disturbed by wind and microseisms.
	L	12 8	...	...	...	...	...	
	F	50	...	...	...	...	...	
17	ePZ	12 22 21	...	...	...	...	8420	Felt in Tokyo.
	eSNE	32 2	...	...	...	...	...	
	eE	33 51	...	...	...	...	...	
	L	54	...	...	...	...	...	
	M_1	56 23	30	...	+ 8	...	...	
	M_2	58 30	29	+ 9	...	− 7	...	
	M_3	13 2 4	25	...	...	...	...	
	F	35	...	...	...	...	...	
June 17	e	17 33	...	...	...	...	...	
	eLNE	18 2	...	...	...	...	...	
	eLZ	7	...	...	...	...	...	
	F	30	...	...	...	...	...	
18	iP	13 9 4	...	...	...	...	...	
	eZ	24 38	...	...	...	...	...	
	LNE	33	...	...	...	...	...	
	M_1	34 41	21	+10	...	...	...	
	LZ	35	...	...	...	...	...	
	M_2	39 55	15	...	...	− 5	...	
	M_3	39 59	15	...	− 4	...	...	
	F	14 5	...	...	...	...	...	
20	e	15 18·5	...	...	...	...	...	
	eL	23	...	...	...	...	...	
	F	40	...	...	...	...	...	
21	eL	13 6	...	...	...	...	...	
	F	45	...	...	...	...	...	
22	eL	16 57	...	...	...	...	...	
	F	17 40	...	...	...	...	...	
23	iPZ	6 27 40	...	...	...	...	(9300)	
	e(PR_1)ZN	31·0	...	...	...	...	...	
	e(S)NE	38·1	...	...	...	...	...	
	LNE	55	...	...	...	...	...	
	LZ	59	...	...	...	...	...	
	M_1	7 9 45	19	...	...	−15	...	
	M_2	9 58	19	...	+10	...	...	
	M_3	10 11	18	−13	...	...	...	
	F	8 5	...	...	...	...	...	
25	e	0 20	...	...	...	...	...	
	F	50	...	...	...	...	...	
27	eL	19 7	...	...	...	...	...	
	F	45	...	...	...	...	...	
28	e	17 16	...	...	...	...	...	
	F	45	...	...	...	...	...	
29	eP^1Z	20 42·2	...	...	...	...	(12000)	Pacific Ocean off Chile.
	eScPcSNE	49·0	...	...	...	...	...	29° S., 72° W. (U.S.C.G.S.).
	eL	21 17	...	...	...	...	...	
	M	25 21	25	...	− 4	...	...	
	F	50	...	...	...	...	...	
July 2	e	4 27	...	...	...	...	...	
	F	55	...	...	...	...	...	
5	eL	4 40	...	...	...	...	...	
	F	45	...	...	...	...	...	
5	e	7 12	...	...	...	...	...	
	eZN	20 58	...	...	...	...	...	
	L	25·6	...	...	...	...	...	
	M_1	26 37	22	+ 5	...	...	...	
	M_2	26 51	18	...	+ 5	...	...	
	M_3	27 3	17	...	...	− 6	...	
	F	?	...	...	...	...	...	Overlapped by following shock.
5	eZE	7 44 54	...	...	...	...	...	
	eL	49	...	...	...	...	...	
	M_1	50 34	19	+ 3	...	...	...	
	M_2	51 24	16	...	...	+ 4	...	
	F	8 10	...	...	...	...	...	
7	ePZE	4 6 42	...	...	...	...	9060	Pacific Ocean off Guatemala.
	eSNE	16 56	...	...	...	...	...	13° N., 94° W. (J.S.A.).
	eL	39	...	...	...	...	...	
	F	5 15	...	...	...	...	...	
9	ePZE	12 5 21	...	...	...	...	2550	Atlantic Ocean North of the Azores.
	e(PR_1)	5 43	...	...	...	...	...	47° N., 28° W. (J.S.A.).
	eS	9 30	...	...	...	...	...	
	L	11·7	...	...	...	...	...	
	M_1	12 29	13	+ 4	...	...	...	
	M_2	13 19	12	...	...	− 2	...	
	F	45	...	...	...	...	...	

‡ Horizontal Components disturbed by wind.

SEISMOLOGICAL DIARY.—*continued.*

Galitzin Seismographs, three components.

546. Richmond (Kew Observatory). Lat. 51° 28′ N. Long. 0° 19′ W. Height above M.S.L. 5 metres. **1931.**

Date.	Phase.	Time. G.M.T.	Period	Amplitudes.			△	Remarks.
				A_N.	A_E.	A_Z.		
July		h. m. s.	s.	μ	μ	μ	km.	
10	e	17 0	...	...	...	...	...	Felt in Germany.
	F	5	...	...	...	...	...	
10	ezE	21 25·8	...	...	...	...	...	
	eN	29·4	...	...	...	...	...	
	L	31	...	...	...	...	...	
	F	45	...	...	...	...	...	
11	eL	6 42	...	...	...	...	...	
	F	7 0	...	...	...	...	...	
12	ez	17 3 25	...	...	...	...	...	Felt in Southern Luzon.
	ezE	10 32	...	...	...	...	...	12·4° N., 123·8° E.
	ez	12 10	...	...	...	...	...	(Manila).
	eNE	17 49	...	...	...	...	...	
	eNE	20 14	...	...	...	...	...	
	LNE	35·1	...	...	...	...	...	
	Lz	38·2	...	...	...	...	...	
	M_1	41 5	23	+28	−21	...	...	
	M_2	43 58	19	...	+23	...	...	
	M_3	44 17	20	−23	...	...	...	
	M_4	45 5	20	−25	...	...	...	
	M_5	45 37	20	...	−20	...	...	
	M_6	49 11	18	...	...	+17	...	
	F	19 25	...	...	...	...	...	
12	iPzE	22 29 18	...	...	...	...	(2360)	Compression.
	e(S)	33 12	...	...	...	...	...	
	LNE	35·5	...	...	...	...	...	
	Lz	36·6	...	...	...	...	...	
	M_1	36 40	13	− 7	...	...	...	
	M_2	37 54	10	...	...	+ 4	...	
	F	55						
14	eLNE	16 45	...	...	...	...	...	
	F	50	...	...	...	...	...	
15	ezE	16 38·5	...	...	...	...	...	
	eNE	46 47	...	...	...	...	...	
	LN	17 6						
	iLE	6·5	...	...	...	...	...	
	M_1	6 52	20	...	− 4	...	...	
	M_2	8 52	16	+ 4	...	...	...	
	iLz	10·2	...	...	...	...	...	
	M_3	14 24	13	...	...	+ 2	...	
	F	18 40	...	...	...	...	...	
16	e	20 26	...	...	...	...	...	Very small.
	F	40	...	...	...	...	...	
17	ePz	9 26 12	...	...	...	...	(9000)	Pacific Ocean off
	ePR_1N	29 49	...	...	...	...	...	Tehuantepec.
	ePR_2N	31 43	...	...	...	...	...	14° N., 96° W.
	eN	37 10	...	...	...	...	...	(U.S.C.G.S.).
	eSR_1N	41 14	...	...	...	...	...	
	eL	52	...	...	...	...	...	
	M_1	57 42	26	...	+ 6	...	...	
	M_2	57 49	25	...	...	+ 7	...	
	F	10 35	...	...	...	...	...	
17	e	12 27	...	...	...	...	...	
	F	40	...	...	...	...	...	
17	—	— — —	...	...	...	...	...	Breaks in records:— 15^h 50^m to 16^h 47^m.
18	ez	5 52	...	...	...	...	...	Very small.
	F	6 0	...	...	...	...	...	
18	iPzN	11 35 19	...	...	...	...	8150	Compression.
	eSNE	44 46	...	...	...	...	...	Sea of Kamtchatka.
	ezN	45 48	...	...	...	...	...	53° N., 162° E.
	eLNE	54	...	...	...	...	...	(U.S.C.G.S.).
	eLz	12 0	...	...	...	...	...	
	M_1	10 56	20	...	+ 6	...	...	
	M_2	16 58	15	...	...	− 5	...	
	M_3	18 52	25	− 6	...	...	...	
	eL_2	13 50	...	...	...	...	...	Via Antipodes.
	F	14 0	...	...	...	...	...	
19	e	21 3	...	...	...	...	...	Very small.
	F	15	...	...	...	...	...	
20	eL	9 35	...	...	...	...	...	
	F	10 45	...	...	...	...	...	

Date.	Phase.	Time. G.M.T.	Period	Amplitudes.			△	Remarks.
				A_N.	A_E.	A_Z.		
July		h. m. s.	s.	μ	μ	μ	km.	
21	iP^1z	3 55 51	...	...	...	...	(16500)	
	iP^1z_2	56 37	...	...	...	...	...	By path of greater deviation.
	ez	57 27	...	...	...	...	...	Tonga Islands.
	ePR_1z	59 22	...	...	...	...	...	22° S., 174° W.
	ePcPcSN	59 30	...	...	...	...	...	(U.S.C.G.S.).
	ePR_3z	4 2 28	...	...	...	...	...	
	eScPcPcSN	6 3	...	...	...	...	...	
	eScPcSPN	9 37	...	...	...	...	...	
	eL	50						
	F	5 50	...	...	...	...	...	
23	e	3 16·4	...	...	...	...	...	
	F	25	...	...	...	...	...	
23	eP^1z	14 39 31	...	...	...	...	...	Solomon Islands,
	ez	41 54	...	...	...	...	...	1° S., 155° E.
	iz	42 18	...	...	...	...	...	(U.S.C.G.S.).
	iNE	42 57	...	...	...	...	...	
	eL	15 20	...	...	...	...	...	Badly developed.
	F	16 30	...	...	...	...	...	
25	e	13 23	...	...	...	...	...	
	F	35	...	...	...	...	...	
27	e	7 52	...	...	...	...	...	
	F	8 25	...	...	...	...	...	
27	eNE	16 48·4	...	...	...	...	...	
	eL	17 11	...	...	...	...	...	
	F	35	...	...	...	...	...	
29	e	12 17	...	...	...	...	...	
	F	30	...	...	...	...	...	
29	e	17 57	...	...	...	...	...	
	F	18 35	...	...	...	...	...	
31	e	0 37	...	...	...	...	...	Very small.
	F	1 0	...	...	...	...	...	
31	e	12 20	...	...	...	...	...	
	F	30	...	...	...	...	...	
31	e	22 57	...	...	...	...	...	
	F	23 30	...	...	...	...	...	
Aug. 1	e	19 35	...	...	...	...	...	
	eL	20 40	...	...	...	...	...	
	F	21 20	...	...	...	...	...	
5	e	8 23	...	...	...	...	...	
	F	35	...	...	...	...	...	
6	e	16 30	...	...	...	...	...	
	F	50	...	...	...	...	...	
6	ez	18 26 4	...	...	...	...	...	
	L	51	...	...	...	...	...	
	M_1	56 20	15	+ 4	...	...	...	
	M_2	58 36	15	...	...	+ 4	...	
	F	19 40	...	...	...	...	...	
7	eP^1z	2 30 38	...	...	...	...	(13500)	Near New Guinea.
	ePR_1	32 7	...	...	...	...	...	3° S.; 148° E. (Wellington).
	iPR_2	34 52	...	...	...	...	...	
	eScPcSNE	37 36	...	...	...	...	...	
	ePcPPcPNE	40 27	...	...	...	...	...	
	iPSNE	42 8	...	...	...	...	...	(?PR_2 by path >180°).
	iz	46 50	...	...	...	...	...	
	$i(SR)_1E$	49 35	...	...	...	...	...	...
	i(PSS)NE	52 8	...	...	...	...	...	
	$i(SR_2)E$	52 16	...	...	...	...	...	
	LNE	59	...	...	...	...	...	
	M_1	3 15 29	27	...	+60	...	...	
	M_2	17 24	24	−58	...	...	...	
	M_3	17 56	24	...	−64	...	...	
	Lz	19	...	...	...	...	...	
	M_4	23 29	22	−84	...	...	...	
	M_5	25 41	21	−84	−73	...	...	
	M_6	25 47	20	...	...	+77	...	
	M_7	28 17	19	...	...	+56	...	
	M_8	32 27	18	...	...	+48	...	
	F	5 50	...	...	...	...	...	

SEISMOLOGICAL DIARY.—*continued.*

Galitzin Seismographs, three components.

546. Richmond (Kew Observatory). Lat. 51° 28′ N. Long. 0° 19′ W. Height above M.S.L. 5 metres. **1931.**

Date.	Phase.	Time. G.M.T.	Period	Amplitudes. A_N.	A_E.	A_Z.	△	Remarks.
Aug.		h. m. s.	s.	μ	μ	μ	km.	
7	e	11 17	...	...	...	...	...	
	F	35	...	...	...	...	...	
8	e	1 51	...	...	...	...	...	Very small.
	F	2 15	...	...	...	...	...	
8	ez	4 19 49	...	...	...	...	...	
	eL	5 3	...	...	...	...	...	
	F	30	...	...	...	...	...	
8	e	9 19	...	...	...	...	...	
	eL	24	...	...	...	...	...	
	F	45	...	...	...	...	...	
10	e	11 10	...	...	...	...	...	
	F	40	...	...	...	...	...	
10/11	iP	21 28 21	...	−0·6*	−0·8*	+2·1*	6400	Azimuth = 53 ± 2°, giving epicentre near Great Altai Mountains, Mongolia.
	i	28 33	...	+4·3*	+5·7*	−14·8*	...	49° N., 92° E. (J.S.A.).
	iPcP	28 51	...	...	...	...	...	*Amplitudes as read in mm.
	iPR_1	30 37	...	...	...	...	...	
	iPR_{2N}	31 59	...	...	...	...	...	
	i(PcS)	32 45	...	...	...	...	...	
	iE	35 19	...	...	...	...	...	
	i	35 51	...	...	...	...	...	
	iS	36 19	...	...	...	...	...	
	L	(44)	...	...	...	...	...	
	M_1	46	13	...	...	230	...	Doubtful; traces very faint and confused by overlapping.
	M_2	50	22	...	>380	...	...	
	M_3	56	20	>240	...	...	...	
	M_4	58	(20)	>310	...	...	...	
	M_5	22 7	15	...	...	+290	...	
	M_6	9	17	...	>310	...	...	
	M_7	11	16	>290	...	...	...	
	F	2 40	...	...	...	...	...	
11	e	3 55	...	...	...	...	...	
	F	4 10	...	...	...	...	...	
11	e	7 31	...	...	...	...	...	
	L	35	...	...	...	...	...	
	M	38 39	11	...	...	+ 5	...	
	F	8 0	...	...	...	...	...	
11	e	13 8	...	...	...	...	...	
	F	20	...	...	...	...	...	
11	e	14 13	...	...	...	...	...	Very small.
	F	20	...	...	...	...	...	
11	e	18 24	...	...	...	...	...	
	F	35	...	...	...	...	...	
13/14	eP^1z	22 29 7	...	...	...	...	...	Near Kermadec Islands (Stuttgart).
	ePR_1z	33 21	...	...	...	...	...	
	ez	39 27	...	...	...	...	...	
	ezN	42 20	...	...	...	...	...	
	eNE	43 38	...	...	...	...	...	
	eNE	53·2	...	...	...	...	...	
	eL	23 30	...	...	...	...	...	
	M_1	41 15	20	...	...	+ 7	...	
	M_2	41 19	20	+ 6	+ 3	...	...	
	M_3	43 49	20	...	+ 4	...	...	
	F	0 40	...	...	...	...	...	
14	e	16 57	...	...	...	...	...	
	F	17 10	...	...	...	...	...	
15	e	14 0	...	...	...	...	...	Not very distant.
	F	8	...	...	...	...	...	
16	e	2 28	...	...	...	...	...	
	F	50	...	...	...	...	...	
16	ePz	11 52 4	...	...	...	...	8440	Dilatation.
	iPR_1EZ	54 53	...	...	...	...	...	Texas, 30·6° N., 103·8° W. (J.S.A.).
	eSNE	12 1 46	...	...	...	...	...	
	iSR_1E	6 39	...	...	...	...	...	
	iN	8 20	...	...	...	...	...	
	iSR_2z	10 25	...	...	...	...	...	
	iLNE	15 44	...	...	...	...	...	
	iLz	18 56	...	...	...	...	...	
	M_1	25 13	15	...	−19	...	...	
	M_2	25 15	15	...	...	−25	...	

Date.	Phase.	Time. G.M.T.	Period	Amplitudes. A_N.	A_E.	A_Z.	△	Remarks.
Aug.		h. m. s.	s.	μ	μ	μ	km.	
16 cont.	M_3	25 17	16	−17	...	...	...	
	F	13 35	...	...	...	...	...	
17	eLNE	18 33	...	...	...	...	...	
	eLz	40	...	...	...	...	...	
	F	55	...	...	...	...	...	
18	e	6 27	...	...	...	...	...	
	F	50	...	...	...	...	...	
18	ez	9 51 48	...	...	...	...	...	
	e	55 43	...	...	...	...	...	
	LNE	58·2	...	...	...	...	...	
	MN	58 48	12	− 4	...	...	...	
	Lz	58·9	...	...	...	...	...	
	F	10 10	...	...	...	...	...	
18	eP	14 30 40	...	...	...	...	6070	Azimuth = 52° ± 2°, giving epicentre near Great Altai Mountains, Mongolia.
	iP	30 44	...	−2·2*	−2·8*	+10·2	...	46° N., 89° E. (J.S.A.).
	ePR_1EZ	32 38	...	...	...	...	...	*Amplitudes as read in mm.
	iPR_2EZ	33 48	...	...	...	...	...	†Positive maximum off chart.
	iS	38 20	...	...	...	...	...	Z trace too faint for measurement 14^h $55·8^m$ to $57·0^m$.
	iScSNE	40 30	...	...	...	...	...	
	i	42 5	...	...	...	...	...	
	iSR_1	42 47	...	...	...	...	...	
	iNE	43 39	...	...	...	...	...	
	LNE	44 12	...	...	...	...	...	
	Lz	44 20	...	...	...	...	...	
	M_1	50 54	22	...	−190	...	...	
	M_2	51 21	19	+155	...	...	...	
	M_3	54 20	20	...	−210	...	...	
	M_4	56 24	15	>+180†	...	...	...	
	M_5	57 23	17	...	−170	...	...	
	M_6	57 28	16	...	...	+195	...	
	F	18 0	...	...	...	...	...	
18	e	18 15	...	...	...	...	...	
	F	55	...	...	...	...	...	
22/23	e	23 41	...	...	...	...	...	
	F	0 0	...	...	...	...	...	
23	eL	18 40	...	...	...	...	...	
	F	19 0	...	...	...	...	...	
24	e	3 29	...	...	...	...	...	
	LEZ	34·0	...	...	...	...	...	
	F	40	...	...	...	...	...	
24/25	iPZE	21 44 53	...	...	...	...	5970	Dilatation.
	iPR_1z	46 50	...	...	...	...	...	Destructive in Baluchistan.
	iS	52 27	...	...	...	...	...	30° N., 67° E. (J.S.A.).
	eN	54 22	...	...	...	...	...	Record disturbed by wind and microseisms.
	eSR_1N	56 13	...	...	...	...	...	
	eSR_1E	56 39	...	...	...	...	...	
	iN	58 23	...	...	...	...	...	
	iN	59 52	...	...	...	...	...	
	L	22 3	...	...	...	...	...	Indefinite.
	M_1	8 19	21	−48	...	...	...	
	M_2	8 42	24	...	+48	...	...	
	M_3	13 36	16	−78	−82	+110	...	
	L_2	0 7	...	...	...	...	...	Via Antipodes.
	F	25	...	...	...	...	...	
25	eL	3 43	...	...	...	...	...	
	F	50	...	...	...	...	...	
25	e	19 28	...	...	...	...	...	
	F	35	...	...	...	...	...	
26	e	11 16	...	...	...	...	...	
	Mz	25 19	10	...	...	− 3	...	
	F	45	...	...	...	...	...	
26	eL	20 4	...	...	...	...	...	
	F	15	...	...	...	...	...	
26	e	22 24	...	...	...	...	...	Very small.
	F	30	...	...	...	...	...	
27	iPz	15 36 42	...	...	...	...	5990	Compression.
	iPR_1z	39 24	...	...	...	...	...	Destructive in Baluchistan.
	iS	44 17	...	...	...	...	...	
	iSR_1NE	48 4	...	...	...	...	...	

SEISMOLOGICAL DIARY.—*continued.*

Galitzin Seismographs, three components.

546. Richmond (Kew Observatory). Lat. 51° 28′ N. Long. 0° 19′ W. Height above M.S.L. 5 metres. **1931.**

Date.	Phase.	Time. G.M.T.	Period	Amplitudes. A_N.	A_E.	A_Z.	△	Remarks.
Aug.		h. m. s.	s.	μ	μ	μ	km.	
27	iZE	48 29	...	...	...	...	...	30° N., 67° E. (J.S.A.).
cont.	iE	51 52	...	...	...	...	...	Bracketed times doubtful; traces very faint.
	L	54	...	...	...	...	...	†Positive maxima off chart.
	M_1	16 0 (13)	26	+210	−87	...	...	
	M_2	1 20	22	...	+130	...	...	
	M_3	5 (33)	16>	+230†	−220	...	...	
	M_4	7 (31)	15	...>	+230†	...	...	
	M_5	8 22	13	...	...	−76	...	
	F	19 30	...	...	...	...	...	
28	ez	0 51 51	...	...	...	...	...	
	eNE	59 32	...	...	...	...	...	
	eE	1 3 52	...	...	...	...	...	
	eLNE	15	...	...	...	...	...	
	eLZ	19	...	...	...	...	...	
	M_1	15 49	22	− 5	...	...	...	
	M_2	21 1	16	...	+ 3	...	...	
	M_3	21 11	15	...	...	+ 5	...	
	F	35	...	...	...	...	...	
28	e	20 12	...	...	...	...	...	
	F	25	...	...	...	...	...	
28	e	22 1	...	...	...	...	...	Very small.
	F	5	...	...	...	...	...	
31	e	7 48	...	...	...	...	...	
	F	8 5	...	...	...	...	...	
Sept. 3	e	17 47	...	...	...	...	...	
	F	55	...	...	...	...	...	
5	e	1 32	...	...	...	...	...	
	F	40	...	...	...	...	...	
6	e	7 23	...	...	...	...	...	Felt in Italy.
	F	30	...	...	...	...	...	
6	eP	8 7 1	...	...	...	...	2340	Compression.
	eSNE	10 53	...	...	...	...	...	
	iSNE	11 0	...	...	...	...	...	
	iLNE	11 55	...	...	...	...	...	
	LEZ	12·3	...	...	...	...	...	
	M_1	12 56	17	+32	...	...	...	
	M_2	14 48	13	...	...	−18	...	
	M_3	14 50	13	...	+26	...	...	
	F	9 10	...	...	...	...	...	
6	eL	15 4	...	...	...	...	...	
	F	25	...	...	...	...	...	
8	e	16 50	...	...	...	...	...	Very small.
	F	55	...	...	...	...	...	
8	ez	19 21 39	...	...	...	...	...	
	eL	57	...	...	...	...	...	
	M_1	20 0 5	22	...	+ 5	...	...	
	M_2	1 52	20	− 6	...	...	...	
	M_3	4 8	19	...	...	− 5	...	
	F	40	...	...	...	...	...	
9	eLNE	14 15	...	...	...	...	...	Pacific Ocean off California.
	eLZ	20	...	...	...	...	...	
	F	55	...	...	...	...	...	41° N., 127° W. (J.S.A.)
9	ePZ	20 52 9	...	...	...	...	10730	Dilatation.
	ePP	52 59	...	...	...	...	...	
	iPR$_1$	56 28	...	...	...	...	...	
	iZN	57 24	...	...	...	...	...	Marianne Islands.
	eZ	59 17	...	...	...	...	...	19° N., 146° E. (J.S.A.).
	ScPcSN	21 2 31	...	...	...	...	...	Deep focus and possibly more than one shock.
	iSN	3 39	...	...	...	...	...	
	i(sS)NE	4 55	...	...	...	...	...	
	iNE	6 16	...	...	...	...	...	
	eN	11·9	...	...	...	...	...	
	eE	15 57	...	...	...	...	...	
	LNE	25	...	...	...	...	...	
	M_1	28 59	33	−21	+23	...	...	
	LZ	35	...	...	...	...	...	Indefinite.
	M_2	40 57	20	−13	...	...	...	
	M_3	41 3	19	...	...	+11	...	
	F	23 10	...	...	...	...	...	

Date.	Phase.	Time. G.M.T.	Period	Amplitudes. A_N.	A_E.	A_Z.	△	Remarks.
Sept.		h. m. s.	s.	μ	μ	μ	km.	
10	e	21 29	...	...	...	...	...	Felt in Morocco.
	F	33	...	...	...	...	...	
11	e	14 43	...	...	...	...	...	Felt in Greece.
	F	55	...	...	...	...	...	
11	eZN	16 31 55	...	...	...	...	...	Felt in Greece.
	e	34 19	...	...	...	...	...	
	iN	35 7	...	...	...	...	...	
	LEZ	37	...	...	...	...	...	
	M_1	37 6	9	...	...	− 3	...	
	M_2	37 15	15	...	+ 5	...	...	
	F	50	...	...	...	...	...	
12	e	0 12	...	...	...	...	...	Very small.
	F	20	...	...	...	...	...	
12	e	2 26	...	...	...	...	...	
	F	3 5	...	...	...	...	...	
12	eZ	15 53 36	...	...	...	...	...	
	eNE	16 3 27	...	...	...	...	...	
	LZ	(23)	...	...	...	...	...	
	F	35	...	...	...	...	...	
13	e	6 33	...	...	...	...	...	
	F	45	...	...	...	...	...	
15	eL	22 36	...	...	...	...	...	
	F	55	...	...	...	...	...	
16	eL	13 28	...	...	...	...	...	
	M	35 30	24	− 4	...	...	...	
	F	14 0	...	...	...	...	...	
16	eL	19 55	...	...	...	...	...	
	F	20 20	...	...	...	...	...	
19	e	8 39	...	...	...	...	...	
	eL	47	...	...	...	...	...	
	M_1	47 58	21	...	− 5	...	...	
	M_2	48 44	20	− 6	...	...	...	
	M_3	48 48	18	...	...	− 7	...	
	F	9 5	...	...	...	...	...	
19	eL	9 35	...	...	...	...	...	
	F	50	...	...	...	...	...	
21	ePZ	2 32 38	...	...	...	...	9440	Destructive in Japan.
	eSNE	43 6	...	...	...	...	...	36° N., 140° E.
	iSNE	43 8	...	...	...	...	...	(U.S.C.G.S.).
	eL	3 3	...	...	...	...	...	
	M_1	5 22	33	...	+28	...	...	
	M_2	8 24	20	...	− 24	...	...	
	M_3	15 35	17	...	...	−18	...	
	M_4	15 46	16	−30	...	...	...	
	F	4 30	...	...	...	...	...	
21	ePZ	10 40 17	...	...	...	...	9400	
	ePR$_1$Z	43 44	...	...	...	...	...	
	eSE	50 47	...	...	...	...	...	
	eSPZ	52 1	...	...	...	...	...	
	LNE	11 11	...	...	...	...	...	
	M_1	15 48	23	+30	...	...	...	
	M_2	16 56	21	...	+30	...	...	
	LZ	18 58	...	...	...	...	...	
	M_3	19 8	19	...	−31	...	...	
	M_4	23 3	19	...	+25	...	...	
	M_5	23 40	18	−30	...	...	...	
	M_6	23 54	15	...	...	−28	...	
	F	12 35	...	...	...	...	...	
21	e(P^1)Z	13 54 25	...	...	...	...	...	Very small.
	e(PR$_1$)Z	59 9	...	...	...	...	...	
	F	15 30	...	...	...	...	...	
21	eL	22 21	...	...	...	...	...	
	F	45	...	...	...	...	...	
22	eL	2 18	...	...	...	...	...	
	F	40	...	...	...	...	...	
22	e	10 50	...	...	...	...	...	Very small.
	F	11 0	...	...	...	...	...	

SEISMOLOGICAL DIARY.—*continued.*

Galitzin Seismographs, three components.

546. Richmond (Kew Observatory). Lat. 51° 28′ N. Long. 0° 19′ W. Height above M.S.L. 5 metres. **1931.**

Date.	Phase.	Time. G.M.T.	Period	Amplitudes. A_N.	A_E.	A_Z.	△	Remarks.
Sept.		h. m. s.	s.	μ	μ	μ	km.	
23	eL	13 39	...	...	...	...	...	
	F	50	...	...	...	...	...	
25	ePz	6 13 46	...	...	...	...	10890	Near Sumatra.
	ezE	14 5	...	...	...	...	...	4·5° S., 101·5° E.
	ePR_1zE	18 4	...	...	...	...	...	(Strasbourg).
	ePR_2z	20 22	...	...	...	...	...	
	$eScPcS_{NE}$	24 28	...	...	...	...	...	
	eS_N	25 22	...	...	...	...	...	
	iPS_{Ez}	27 13	...	...	...	...	...	
	$ePPS_{Nz}$	28 3	...	...	...	...	...	
	iSR_{1N}	32 45	...	...	...	...	...	
	iSR_{1E}	33 3	...	...	...	...	...	
	izE	6 33 42	...	...	...	...	...	
	eN	36 17	...	...	...	...	...	
	iSR_{2N}	37 47	...	...	...	...	...	
	L_N	41 59	...	...	...	...	...	
	L_E	44 57	...	...	...	...	...	
	L_Z	49 55	...	...	...	...	...	
	M_1	51 32	33	+115	...	...	...	
	M_2	57 38	26	−130	...	...	...	
	M_3	57 39	...	...	+89	...	...	
	M_4	7 3 52	22	+120	...	...	...	
	M_5	7 36	20	...	+150	...	...	
	M_6	8 25	22	−130	...	...	...	
	M_7	9 30	21	...	...	>+135†	...	†Negative maxima off chart.
	M_8	9 36	21	...	+150	...	...	
	M_9	15 2	19	...	−80	...	...	
	F	10 20	...	...	...	...	...	
25	e	18 9	...	...	...	...	...	
	F	30	...	...	...	...	...	
25	e	22 5	...	...	...	...	...	
	F	23 0	...	...	...	...	...	
26	ez	20 15 22	...	...	...	...	...	Pacific Ocean off Guatemala.
	eL	33	...	...	...	...	...	12° N., 91° W.
	M_1	46 30	20	...	+12	...	...	(U.S.C.G.S.).
	M_2	46 34	20	...	...	+11	...	
	F	21 40	...	...	...	...	...	No records:—28^d 9^h 2^m to 16^h 55^m.
28	e	18 21	...	...	...	...	...	
	F	35	...	...	...	...	...	
29	eE	6 10	...	...	...	...	...	No records:—29^d 9^h 17^m to 15^h 58^m and 30^d 9^h 2^m to 16^h 10^m, during standardisation, etc.
	eL	18	...	...	...	...	...	
	F	35	...	...	...	...	...	
Oct. 1	eL	12 24	...	...	...	...	...	California.
	M_1	30 9	22	...	+ 8	...	...	29·8° N., 115·2° W.
	M_2	32 33	17	− 8	...	...	...	(J.S.A.).
	F	13 10	...	...	...	...	...	
3	iP^1z	19 32 52	...	...	...	...	(16000)	Confused by microseisms.
	iz	33 44	...	...	...	...	...	Solomon Islands.
	iPR_1z	35 24	...	...	...	...	...	10° S., 161·4° E. (J.S.A.)
	ePR_{1NE}	35 42	...	...	...	...	...	Possibly more than one shock.
	iN	35 51	...	...	...	...	...	
	iNE	36 43	...	...	...	...	...	
	IN	38 25	...	...	...	...	...	
	eE	42 29	...	...	...	...	...	
	iE	46 7	...	...	...	...	...	
	iz	47 59	...	...	...	...	...	
	i	49 13	...	...	...	...	...	
	i	51 37	...	...	...	...	...	
	izE	53 15	...	...	...	...	...	
	iN	53 59	...	...	...	...	...	
	iE	54 11	...	...	...	...	...	
	L	20 5	...	...	...	...	...	
	M_1	20 0	34	...	−330	...	...	
	M_2	22 35	31	...	−340	...	...	
	M_3	23 8	28	−350	...	...	...	
	M_4	24 38	25	...	+330	...	...	
	M_5	29 46	23	−320†	...	...	...	†Positive maxima off chart.
	M_6	30 50	22	...	...	−260	...	
	M_7	32 58	24	+330†	...	...	...	Overlapped by next shock.
	F	?	...	...	...	...	...	

Date.	Phase.	Time. G.M.T.	Period	Amplitudes. A_N.	A_E.	A_Z.	△	Remarks.
Oct.		h. m. s.	s.	μ	μ	μ	km.	
3	eL_{NE}	23 2	...	...	...	...	...	Repetition of preceding shock.
	eL_Z	9	...	...	...	...	...	
	M_1	11 35	27	...	−30	...	...	
	M_2	12 53	24	−32	...	...	...	Overlapped by next shock.
	F	?	...	...	...	...	...	
3/4	iz	23 30 3	...	...	...	...	...	Further repetition.
	i	32 45	...	...	...	...	...	
	eNE	33 11	...	...	...	...	...	
	eE	41 41	...	...	...	...	...	
	eNE	44 37	...	...	...	...	...	
	ez	49 53	...	...	...	...	...	
	eL	54	...	...	...	...	...	
	M_1	57 41	27	...	−46	...	...	
	M_2	0 4 30	24	+60	...	...	...	
	M_3	4 35	24	...	...	−61	...	
	M_4	6 52	22	...	+38	...	...	
	M_5	7 33	23	−55	...	...	...	
	F	1 50	...	...	...	...	...	
5	iPz	22 40 12	...	...	...	...	5380	Turkestan (Strasbourg).
	i	40 59	...	...	...	...	...	Possibly more than one shock.
	ezE	42 53	...	...	...	...	...	
	iS	47 15	...	...	...	...	...	
	L_{NE}	48	...	...	...	...	...	
	ez	48 22	...	...	...	...	...	
	eE	48 47	...	...	...	...	...	
	iz	48 51	...	...	...	...	...	
	L_Z	52	...	...	...	...	...	
	M_1	52 12	19	...	+13	...	...	
	M_2	52 20	13	...	...	+ 8	...	
	eN	52 28	...	...	...	...	...	
	M_3	23 2 28	19	+12	...	...	...	
	M_4	5 20	15	...	− 8	...	...	
	F	35	...	...	...	...	...	
8	—	— — —	...	...	...	...	...	No records 9^h 44^m to 17^h 15^m; standardisation, etc.
9/10	—	— — —	...	...	...	...	...	No records 23^h 55^m to 7^h 17^m; lights failed.
10	eL	17 1	...	...	...	...	...	
	M_1	18 49	18	...	+12	...	...	
	M_2	23 15	17	+10	...	...	...	
	M_3	23 46	13	...	...	− 7	...	
	F	18 10	...	...	...	...	...	
12	eL_{NE}	4 6	...	...	...	...	...	
	eL_Z	18	...	...	...	...	...	
	F	5 15	...	...	...	...	...	
12	eL	14 32	...	...	...	...	...	
	F	15 5	...	...	...	...	...	
13	eL	5 41	...	...	...	...	...	
	F	6 40	...	...	...	...	...	
13	eL	12 42	...	...	...	...	...	Very small.
	F	55	...	...	...	...	...	
14	e	7 35	...	...	...	...	...	
	F	25	...	...	...	...	...	
18	$e(P^1)$z	0 58 12	...	...	...	...	...	
	e	1 0 58	...	...	...	...	...	
	e	1 44	...	...	...	...	...	
	eL_{NE}	43	...	...	...	...	...	
	eL_Z	52	...	...	...	...	...	
	M	54 53	23	− 5	...	...	...	
	F	2 55	...	...	...	...	...	
18	$i(P^1)$z	4 49 33	...	...	...	...	...	
	i	49 59	...	...	...	...	...	
	eE	5 12 38	...	...	...	...	...	Probably deep focus.
	eE	13 47	...	...	...	...	...	No surface waves.
	eE	15 47	...	...	...	...	...	
	eE	18 45	...	...	...	...	...	
	F	6 30	...	...	...	...	...	
18	eL	7 47	...	...	...	...	...	
	F	8 5	...	...	...	...	...	

SEISMOLOGICAL DIARY.—*continued.*

Galitzin Seismographs, three components.

546. Richmond (Kew Observatory). Lat. 51° 28′ N. Long. 0° 19′ W. Height above M.S.L. 5 metres. **1931.**

Date.	Phase.	Time. G.M.T.	Period	Amplitudes. A_N.	A_E.	A_Z.	△	Remarks.
		h. m. s.	s.	μ	μ	μ	km.	
Oct. 23	e(P¹)z	20 28 43	...	...	...	...	...	
	eL_{NE}	21 16	...	...	...	...	...	
	eL_Z	21	...	...	...	...	...	
	F	22 20	...	...	...	...	...	
26	eL_{NE}	5 3	...	...	...	...	...	Pacific Ocean off Mexico.
	M_1	5 47	15	+ 4	...	...	...	20° N., 107° W.
	eL_Z	7	...	...	...	...	...	(U.S.C.G.S.).
	M_2	12 31	18	...	...	− 9	...	
	M_3	12 59	18	...	+ 9	...	...	
	F_3	40	...	...	...	...	...	
26	eL	13 1	...	...	...	...	...	
	F	30	...	...	...	...	...	
27	eL	2 20	...	...	...	...	...	
	F	35	...	...	...	...	...	
28	eL_{NE}	6 22	...	...	...	...	...	
	eL_Z	31	...	...	...	...	...	
	M_1	34 31	17	+ 9	...	...	...	
	M_2	34 35	16	...	...	− 9	...	
	F	7 0	...	...	...	...	...	
Nov. 1	eL	13 34	...	...	...	...	...	
	F	45	...	...	...	...	...	
1	eP_{ZN}	19 5 57	...	...	...	...	...	
	$eScPcS_{NE}$	16 18	...	...	...	...	...	
	L_{NE}	35	...	...	...	...	...	
	L_Z	40	...	...	...	...	...	
	M_1	42 22	21	−10	...	...	...	
	M_2	49 54	16	...	+12	...	...	
	M_3	49 49	15	...	...	−13	...	
	F	20 30	...	...	...	...	...	
2	eP_{ZN}	0 44 33	...	...	...	...	8850	Destructive at Oaxaca, Mexico.
	iS	54 36	...	...	...	...	...	15·7° N., 96·2° W.
	L_N	1 7	...	...	...	...	...	(J.S.A.).
	L_{ZE}	11	...	...	...	...	...	
	M_1	14 37	24	−12	...	...	...	
	M_2	16 7	25	...	...	+30	...	
	M_3	16 25	24	...	+27	...	...	
	F	3 15	...	...	...	...	...	
2	iP_Z	10 15 42	...	...	...	...	9400	Compression.
	i	15 47	...	...	...	...	...	Destructive in Japanese Islands of Kyushu
	PR_1	19 0	...	...	...	...	...	and Shikoku.
	PR_2	21 3	...	...	...	...	...	Near 32° N., 132° E.
	e_Z	26 1	...	...	...	...	...	(J.S.A.).
	iS_{NE}	26 12	...	...	...	...	...	
	i_N	27 32	...	...	...	...	...	
	i_E	27 46	...	...	...	...	...	
	SR_{1NE}	31 46	...	...	...	...	...	
	$ePcPPcP_Z$	33 15	...	...	...	...	...	
	i_{NE}	33 21	...	...	...	...	...	
	SR_{2NE}	36 6	...	...	...	...	...	
	L_{NE}	10 37	...	...	...	...	...	
	L_Z	45	...	...	...	...	...	
	M_1	50 56	23	...	−220	...	...	*Positive maxima off chart.
	M_2	52 8	22	−185	...	...	...	
	M_3	54 30	24	...	−210	...	...	
	M_4	58 29	19	+190*	...	...	...	
	M_5	59 34	17	...	−210	...	...	
	M_6	59 38	16	...	...	+240*	...	
	M_7	11 1 58	17	...	...	−185	...	
	M_8	4 55	20	−145	...	...	...	
	M_9	6 46	18	...	−120	...	...	
	F	14 20	...	...	...	...	...	
2	e	15 6	...	...	...	...	...	Very small
	F	10	...	...	...	...	...	

Date.	Phase.	Time. G.M.T.	Period	Amplitudes. A_N.	A_E.	A_Z.	△	Remarks.
		h. m. s.	s.	μ	μ	μ	km.	
Dec. 2	ePR_{1Z}	17 24 19	...	...	...	...	...	
	eSR_{1NE}	41 27	...	...	...	...	...	
	eSR_{2E}	46 37	...	...	...	...	...	
	L_N	55 7	...	...	...	...	...	
	L_E	59	...	...	...	...	...	
	M_1	18 9 27	25	...	−14	...	...	
	M_2	9 42	27	−16	...	...	...	
	L_Z	10	...	...	...	...	...	
	M_3	22 52	22	...	...	− 9	...	
	eL_2	55	...	...	...	...	...	Via Antipodes.
	M	19 3 5	18	+ 7	...	...	...	
	F	40	...	...	...	...	...	
3	eL	17 0	...	...	...	...	...	
	F	30	...	...	...	...	...	
4	eL	18 35	...	...	...	...	...	
	F	55	...	...	...	...	...	
5	—	— — —	...	...	...	...	...	No records $9^h\ 40^m$ to $15^h\ 15^m$.
18	e_N	4 53	...	...	...	...	...	
	eL	57	...	...	...	...	...	
	F	6 0	...	...	...	...	...	
20	ePR_1	14 38 45	...	...	...	...	...	Solomon Islands.
	ePcPcS	39 32	...	...	...	...	...	8° S., 161° E. (J.S.A.).
	ePS_{NE}	49 1	...	...	...	...	...	
	ePPS	50 38	...	...	...	...	...	
	eSR_{1E}	56 32	...	...	...	...	...	
	L_{NE}	15 13	...	...	...	...	...	
	L_Z	22	...	...	...	...	...	
	M_1	25 44	32	+22	...	...	...	
	M_2	27 56	24	...	+20	...	...	
	M_3	32 13	25	...	−24	...	...	
	M_4	32 33	25	...	...	−33	...	
	M_5	33 19	25	+31	...	...	...	
	F	16 30	...	...	...	...	...	
24	eL	9 41	...	...	...	...	...	
	F	55	...	...	...	...	...	
Dec. 1	eL	4 45	...	...	...	...	...	
	M	55 31	20	+10	...	...	...	
	F	5 20	...	...	...	...	...	
1	e_N	19 12	...	...	...	...	...	
	L_N	28	...	...	...	...	...	
	L_{EZ}	39	...	...	...	...	...	
	M	42 2	23	+ 8	...	...	...	
	F	20 20	...	...	...	...	...	
2	e	21 58	...	...	...	...	...	
	F	22 10	...	...	...	...	...	
6	e	23 37	...	...	...	...	...	
	F	55	...	...	...	...	...	
15	e	3 30	...	...	...	...	...	Felt in Italy.
	F	35	...	...	...	...	...	
18	eL_{NE}	10 47	...	...	...	...	...	
	eL_Z	53	...	...	...	...	...	
	M	58 5	21	...	− 6	...	...	
	F	11 20	...	...	...	...	...	
21	e	12 5	...	...	...	...	...	Very small.
	F	10	...	...	...	...	...	
25	eL	4 29	...	...	...	...	...	
	F	5 0	...	...	...	...	...	
26	e	2 29	...	...	...	...	...	Very small.
	F	45	...	...	...	...	...	
31	e	0 47	...	...	...	...	...	
	F	1 50	...	...	...	...	...	

Derived from readings for the period of thirty minutes centring at the exact hour, Greenwich Mean Time.

547. Richmond (Kew Observatory). **1931.**

January.

Day	0 h. A.	0 h. Tp.	6 h. A.	6 h. Tp.	12 h. A.	12 h. Tp.	18 h. A.	18 h. Tp.
	μ	s.	μ	s.	μ	s.	μ	s.
1	3·0	6·0	2·8	6·0	1·9	7·5	2·6	8·3
2	2·3	6·3	1·9	6·7	2·1	5·8	2·2	7·0
3	1·7	6·7	...	...	1·2	6·0	1·0	6·5
4	1·4	6·3	1·2	5·8	1·8	5·2	1·2	5·8
5	1·7	5·6	1·1	5·6	1·5	5·4	0·8	5·6
6	0·9	5·4	1·5	6·7	1·5	6·7	1·4	7·0
7	1·5	6·5	1·1	6·7	0·9	6·7	0·8	6·5
8	0·4	6·3	0·4	6·0	0·2	6·0	0·2	5·4
9	0·2	4·7	0·2	6·0	0·2	5·0	0·2	5·2
10	0·2	5·2	0·2	5·0	0·2	5·6	0·2	5·4
11	0·2	5·2	0·2	5·4	0·2	5·2	0·2	5·0
12	0·3	4·3	0·3	4·1	0·5	4·8	1·5	5·4
13	1·1	5·0	0·9	5·2	1·1	5·0	1·4	5·8
14	1·9	5·6	1·4	5·8	0·6	5·8	0·4	5·4
15	0·2	5·4	0·2	4·7	0·7	4·7	1·1	5·6
16	...	...	1·2	6·0	1·9	6·3	2·2	6·0
17	3·3	7·5	3·8	7·0	3·4	7·0	1·7	7·3
18	2·3	5·8	1·7	6·5	1·8	6·0	1·7	6·3
19	1·9	7·5	2·1	5·8	1·8	6·0	2·3	6·3
20	1·9	6·3	1·5	6·7	1·5	6·7	1·6	5·8
21	1·4	6·0	1·1	5·2	1·0	6·0	0·8	6·3
22	1·1	5·4	0·9	5·4	0·7	4·5	1·5	4·5
23	1·0	5·8	1·8	6·0	2·0	6·0	2·4	6·0
24	2·3	6·3	2·5	5·8	2·3	5·0	2·0	6·7
25	1·9	5·6	2·4	5·4	1·6	6·0	1·8	6·0
26	2·4	5·4	2·3	5·8	1·9	5·6	2·1	5·8
27	1·9	5·8	1·7	5·6	1·5	5·6	1·5	5·6
28	1·7	5·4	2·3	5·6	2·0	6·7	1·9	6·5
29	...	...	2·8	6·0	3·3	6·7	2·4	7·0
30	2·3	6·5	1·7	6·3	1·4	6·0	1·2	4·7
31	0·5	4·8	0·5	4·5	1·9	5·8	2·0	6·0
Mean ...	1·5	5·8	1·5	5·8	1·4	5·9	1·4	6·0
Mean for day ...	A = 1·5μ ; Tp = 5·9s.							

February.

Day	0 h. A.	0 h. Tp.	6 h. A.	6 h. Tp.	12 h. A.	12 h. Tp.	18 h. A.	18 h. Tp.
	μ	s.	μ	s.	μ	s.	μ	s.
1	2·9	6·3	3·0	6·0	2·6	5·4	2·2	6·0
2	2·8	6·0	2·1	6·3	1·9	5·8	1·5	5·6
3	...	...	0·9	5·0	0·9	5·0	0·8	6·0
4	0·6	5·6	0·6	5·6	0·6	6·5	0·7	6·7
5	1·3	6·7	2·1	7·5	2·1	7·5	1·8	7·0
6	2·0	6·0	1·9	6·7	1·7	6·3	1·5	6·5
7	1·1	5·2	1·0	5·8	0·9	5·2	1·2	6·0
8	0·8	5·8	0·9	5·0	0·9	5·4	1·1	5·2
9	1·1	5·0	0·8	5·6	1·9	6·7	2·3	7·3
10	2·4	7·5	2·1	7·5	2·2	7·0	1·9	6·5
11	1·9	6·3	2·3	6·3	1·9	6·3	2·2	6·7
12	5·1	7·0	6·4	7·5	4·3	8·3	3·8	8·0
13	2·5	7·0	3·4	4·3	1·9	6·7	1·9	6·7
14	2·0	6·0	1·7	5·4	0·7	5·2	1·1	5·0
15	1·2	6·3	1·2	6·3	1·9	7·7	3·4	7·7
16	3·7	7·7	4·6	7·7	3·5	7·3	3·7	7·3
17	3·6	7·0	2·0	6·7	1·7	6·3	2·1	6·5
18	1·6	6·0	1·3	5·6	1·1	5·4	1·2	5·8
19	0·5	5·0	0·2	4·8	0·5	5·0	0·4	6·0
20	1·5	6·7	...	...	1·7	7·5	2·0	7·7
21	2·9	7·5	2·9	7·5	2·5	6·5	1·6	7·0
22	1·7	6·3	1·9	6·7	1·9	6·5	1·8	7·0
23	1·9	6·7	1·9	6·3	0·8	6·3	0·4	6·3
24	0·8	6·0	0·4	6·5	0·4	5·6	0·4	5·6
25	0·4	5·4	0·9	5·4	0·4	7·0	0·8	5·6
26	0·9	5·0	0·5	4·8	1·1	6·5	1·5	6·7
27	1·6	7·3	1·7	6·7	1·7	6·7	1·7	6·3
28	1·4	5·8	1·4	6·0	1·8	6·0	2·1	6·5
Mean ...	1·9	6·3	1·6	6·1	1·6	6·3	1·7	6·5
Mean for day ...	A = 1·8μ ; Tp = 6·3s.							

March.

Day	0 h. A.	0 h. Tp.	6 h. A.	6 h. Tp.	12 h. A.	12 h. Tp.	18 h. A.	18 h. Tp.
	μ	s.	μ	s.	μ	s.	μ	s.
1	1·7	6·7	2·1	5·6	1·5	5·6	2·2	6·7
2	2·6	7·5	1·9	7·5	1·7	6·5	0·7	7·0
3	0·8	6·0	1·1	7·3	0·6	6·0	1·1	6·5
4	1·0	6·0	0·6	5·6	0·7	5·4	0·6	5·8
5	1·1	5·4	0·9	5·0	0·5	4·5	0·5	4·3
6	1·0	4·3	1·9	4·1	2·0	4·5	3·2	5·0
7	3·9	5·4	6·7	5·2	3·8	5·6	2·2	5·2
8	2·0	5·2	2·1	4·8	1·5	4·7	1·7	4·8
9	2·0	5·4	...	...	1·3	5·6	1·9	6·5
10	2·5	5·0	1·9	6·7	0·5	7·0	0·8	6·5
11	0·6	6·5	0·4	6·7	0·6	6·5	0·2	5·2
12	0·2	5·2	0·2	4·7	...	...	0·2	4·8
13	0·3	4·5	0·4	5·2	0·2	5·0	0·2	4·7
14	0·5	5·0	0·4	5·6	0·2	6·0	0·4	5·8
15	1·1	5·4	2·1	5·6	2·3	5·8	1·9	6·5
16	3·6	7·0	2·5	6·3	1·4	6·3	2·0	5·2
17	0·7	5·2	0·7	4·5	0·5	5·0	0·3	3·7
18	0·2	5·0	0·5	4·8	0·5	5·0	0·5	4·8
19	0·2	4·7	0·4	5·4	0·2	5·0	0·3	4·3
20	0·2	4·7	0·5	4·7	0·3	4·5	0·5	4·3
21	0·5	4·8	0·5	4·5	0·2	4·8	0·3	4·3
22	0·3	4·5	0·2	4·8	0·3	4·3	0·3	4·0
23	0·3	4·3	0·3	4·3	0·0	—	0·2	4·7
24	0·0	—	0·2	5·4	0·0	—	0·2	4·7
25	0·2	6·0	0·3	4·3	0·2	4·7	0·2	5·0
26	0·4	5·6	0·4	5·4	0·2	5·6	0·3	4·3
27	0·3	3·7	0·2	5·6	0·2	5·2	0·2	6·0
28	0·6	5·6	0·4	5·8	0·6	6·0	1·8	5·0
29	1·1	5·4	1·6	5·8	1·7	4·7	1·8	4·3
30	1·7	4·5	0·5	4·0	0·3	4·0	0·3	4·0
31	0·3	3·5	0·3	4·0	0·3	4·0	0·5	4·3
Mean ...	1·0	5·3	1·1	5·3	0·8	5·3	0·9	5·1
Mean for day ...	A = 0·9μ ; Tp = 5·3s.							

April.

Day	0 h. A.	0 h. Tp.	6 h. A.	6 h. Tp.	12 h. A.	12 h. Tp.	18 h. A.	18 h. Tp.
	μ	s.	μ	s.	μ	s.	μ	s.
1	0·8	4·3	0·8	4·3	1·3	4·5	2·3	4·5
2	...	...	...	...	0·5	5·0	0·5	4·5
3	0·8	4·3	0·5	4·5	0·5	4·7	0·3	4·5
4	0·4	5·2	0·2	4·8	0·6	6·7	0·2	6·7
5	0·4	5·8	0·2	5·0	0·2	5·6	0·2	5·0
6	0·2	4·8	0·2	4·7	0·2	5·0	0·5	4·8
7	0·5	4·5	0·2	4·7	0·4	5·2	0·7	4·8
8	0·9	5·0	1·1	5·4	1·3	5·4	0·6	6·5
9	1·0	6·3	1·0	6·0	0·6	6·3	1·3	6·5
10	...	...	0·8	5·8	0·5	7·5	1·3	7·0
11	1·2	7·5	1·0	6·3	0·9	7·5	0·7	5·2
12	0·4	5·4	0·4	5·4	0·6	5·6	1·1	5·6
13	1·0	5·8	0·8	5·6	0·6	5·8	0·4	5·2
14	...	...	...	...	0·4	5·6	0·2	5·0
15	0·2	5·2	0·2	5·4	0·3	4·5	0·2	4·8
16	0·7	5·4	0·5	4·7	1·5	6·7	1·4	7·0
17	1·7	7·3	1·7	6·5	1·0	5·8	1·5	4·7
18	0·6	6·0	0·6	5·6	0·4	5·4	1·4	5·0
19	1·5	4·7	0·7	4·8	0·5	5·0	0·5	4·5
20	0·3	4·3	0·2	4·7	0·3	4·0	0·3	3·7
21	0·3	3·7	0·3	4·3	0·0	—	0·0	—
22	0·0	—	0·0	—	0·0	—	0·0	—
23	0·0	—	0·0	—	0·0	—	0·0	—
24	0·0	—	0·0	—	0·3	3·6	...	...
25	0·2	5·0	0·2	4·7	0·5	5·0	0·4	5·4
26	0·7	5·2	0·2	6·3	0·5	5·0	0·2	5·2
27	0·2	4·7	0·5	4·8	0·3	4·5	...	...
28	0·2	4·7	0·3	3·9	0·2	5·6	0·3	4·5
29	0·0	—	0·0	—	0·0	—	0·0	—
30	0·0	—	0·0	—	0·2	5·6	0·2	5·6
31								
Mean ...	0·5	5·2	0·5	5·1	0·5	5·4	0·6	5·3
Mean for day ...	A = 0·5μ ; Tp = 5·3s.							

May.

Day	0 h. A.	0 h. Tp.	6 h. A.	6 h. Tp.	12 h. A.	12 h. Tp.	18 h. A.	18 h. Tp.
	μ	s.	μ	s.	μ	s.	μ	s.
1	0·2	5·4	0·6	5·8	0·5	5·0	0·5	4·7
2	0·2	4·7	0·2	4·7	0·2	4·8	0·2	5·0
3	0·2	4·8	0·3	4·0	0·3	4·3	0·3	4·3
4	0·3	4·1	0·3	4·3	0·3	4·1	0·3	4·0
5	0·3	3·9	0·3	4·5	0·3	4·3	0·2	5·0
6	0·5	4·5	0·7	4·5	1·0	4·5	0·5	4·3
7	0·5	4·8	0·2	4·7	0·3	4·3	0·3	4·5
8	0·3	4·3	0·3	4·0	0·0	—	0·0	—
9	0·2	4·8	0·3	4·5	0·3	4·5	0·2	5·0
10	0·2	5·0	0·5	5·0	0·9	5·4	0·8	6·3
11	1·1	5·2	0·6	5·6	0·4	5·2	0·7	5·2
12	0·4	5·8	0·5	5·0	0·2	5·2	0·2	4·7
13	0·4	5·4	1·1	5·4	2·0	8·0	1·9	7·5
14	1·8	7·0	1·7	7·5	1·3	7·0	1·5	6·5
15	0·6	6·0	0·7	5·4	0·3	4·5	0·3	4·5
16	0·2	4·8	0·3	4·3	0·3	4·0	0·3	4·0
17	0·0	—	0·3	4·3	0·3	4·3	0·2	4·7
18	0·3	4·3	0·3	4·3	0·3	4·3	0·5	4·0
19	0·5	4·3	0·5	5·0	0·5	4·8	0·5	4·3
20	0·7	4·7	1·0	4·7	0·9	5·2	1·7	4·7
21	1·0	4·8	1·1	5·2	0·5	5·0	0·4	5·2
22	0·5	4·7	0·5	4·7	0·5	5·0	0·5	4·5
23	0·5	4·5	0·5	4·7	0·5	5·0	0·3	4·5
24	0·3	4·5	0·2	4·7	0·3	4·3	0·2	5·0
25	0·5	4·3	0·5	4·3	0·3	4·1	0·3	4·0
26	0·3	4·1	0·3	4·3	0·3	4·1	0·3	4·1
27	0·3	4·3	0·3	4·3	0·0	—	0·0	—
28	0·3	4·0	0·3	3·7	0·3	3·7	0·3	3·3
29	0·2	4·7	0·5	4·1	0·3	4·1	0·5	4·3
30	0·7	4·5	0·8	4·3	0·5	4·5	0·3	4·5
31	0·3	4·0	0·3	4·3	0·3	4·1	0·3	4·0
Mean ...	0·5	4·7	0·5	4·7	0·5	4·7	0·5	4·7
Mean for day ...	A = 0·5μ ; Tp = 4·7s.							

June.

Day	0 h. A.	0 h. Tp.	6 h. A.	6 h. Tp.	12 h. A.	12 h. Tp.	18 h. A.	18 h. Tp.
	μ	s.	μ	s.	μ	s.	μ	s.
1	0·3	4·5	0·3	4·5	0·3	4·5	0·3	4·5
2	0·3	4·3	0·2	5·0	0·3	4·3	1·0	4·5
3	1·2	4·7	2·0	4·5	1·5	4·7	1·3	4·5
4	1·5	4·5	1·0	4·7	1·0	4·5	1·1	5·0
5	1·0	4·5	1·0	4·7	0·7	4·5	1·6	4·3
6	0·7	4·5	0·7	4·5	0·5	4·3	0·3	3·1
7	0·3	3·1	0·3	3·6	0·3	3·9	0·3	3·9
8	0·3	3·9	0·3	3·9	0·3	3·9	0·3	3·9
9	0·3	3·7	0·3	3·6	0·3	3·5	0·3	3·7
10	0·3	4·0	0·3	4·1	0·3	4·0	0·5	4·1
11	0·8	4·3	0·5	4·3	0·3	4·1	0·3	4·0
12	0·5	4·3	0·8	4·3	0·3	4·1	0·3	4·3
13	0·3	4·3	0·2	4·8	0·3	4·5	0·2	4·7
14	0·3	4·0	0·3	4·3	0·3	4·0	0·3	4·0
15	0·3	3·5	0·3	3·3	0·3	4·0	0·3	3·9
16	0·5	4·0	0·5	4·3	0·3	4·3	0·5	4·3
17	0·8	4·3	0·7	4·5	0·3	4·3	0·3	4·5
18	0·2	5·0	0·3	4·5	0·3	4·0	0·3	3·9
19	0·3	4·5	0·3	4·3	0·5	4·8	0·5	4·3
20	0·5	4·5	0·3	4·3	0·3	4·5	0·2	4·8
21	0·3	4·3	0·5	4·5	0·3	4·1	0·3	4·3
22	0·2	4·7	0·5	4·8	0·5	5·0	0·5	4·7
23	0·3	4·5	0·3	4·5	0·3	4·5	0·3	4·1
24	0·3	4·3	0·3	4·3	0·0	—	0·3	4·0
25	0·3	4·0	0·0	—	0·0	—	0·0	—
26	0·0	—	0·3	4·5	0·0	—	0·2	4·8
27	0·3	4·0	0·3	4·5	0·2	5·0	0·2	5·0
28	0·2	5·0	0·2	5·0	0·3	4·3	0·3	4·3
29	0·2	4·8	0·2	4·8	0·3	4·5	0·3	4·5
30	0·2	4·7	0·2	4·7	0·2	4·8	0·0	—
31								
Mean ...	0·4	4·3	0·5	4·4	0·4	4·3	0·4	4·3
Mean for day ...	A = 0·4μ ; Tp = 4·3s.							

NOTE.—The symbol ... indicates that microseisms were not measured, either by reason of occurrence of earthquakes or lack of record.

Derived from readings for the period of thirty minutes centring at the exact hour, Greenwich Mean Time.

547. Richmond (Kew Observatory). 1931.

July.

Day	0 h. A. μ	0 h. Tp. s.	6 h. A. μ	6 h. Tp. s.	12 h. A. μ	12 h. Tp. s.	18 h. A. μ	18 h. Tp. s.
1	0·0	—	0·0	—	0·0	—	0·0	—
2	0·0	—	0·0	—	0·2	4·8	0·4	5·6
3	0·5	4·8	0·2	5·0	0·2	5·0	1·4	6·3
4	1·1	5·6	0·8	6·0	0·6	5·6	0·8	5·8
5	0·4	5·4	0·6	5·8	0·5	5·0	0·5	5·0
6	0·4	5·4	0·2	5·0	0·3	4·0	0·2	5·0
7	0·2	4·7	0·3	4·0	0·0	—	0·0	—
8	0·3	3·7	0·3	3·7	0·0	—	0·0	—
9	0·3	3·2	0·3	3·3	0·3	3·5	0·3	3·7
10	0·3	3·7	0·3	3·6	0·3	3·6	0·3	3·5
11	0·3	3·3	0·3	3·3	0·3	3·3	0·0	—
12	0·0	—	0·0	—	0·0	—	...	...
13	0·0	—	0·0	—	0·0	—	0·0	—
14	0·0	—	0·0	—	0·0	—	0·0	—
15	0·3	3·2	0·4	3·0	0·0	—	0·3	3·6
16	0·4	3·0	0·4	3·0	0·0	—	0·0	—
17	0·0	—	0·0	—	0·0	—	0·3	4·0
18	0·5	4·3	0·5	4·0	...	...	0·3	3·7
19	0·3	4·3	0·2	4·8	0·5	5·0	0·5	4·5
20	0·3	4·0	0·3	4·3	0·3	3·7	0·3	4·3
21	0·2	4·7	0·3	4·1	0·2	4·8	0·2	4·7
22	0·3	4·3	0·3	4·3	0·3	4·3	0·3	4·5
23	0·2	4·7	0·7	5·0	0·3	4·5	0·7	5·4
24	0·6	5·8	0·4	5·4	0·3	4·5	0·3	4·3
25	0·3	4·1	0·3	4·5	0·3	4·3	0·2	5·0
26	0·3	4·5	0·3	4·5	0·0	—	0·0	—
27	0·3	4·5	0·3	4·0	0·3	3·9	0·3	4·0
28	0·3	4·0	0·3	4·5	0·3	4·5	0·3	4·5
29	0·3	4·0	0·3	3·7	0·3	4·3	0·3	4·5
30	0·3	4·3	0·3	4·0	0·0	—	0·2	4·7
31	0·2	4·7	0·3	4·3	0·0	—	0·0	—
Mean ...	0·3	4·3	0·3	4·3	0·2	4·4	0·3	4·6
Mean for day ...	A = 0·3μ ; Tp = 4·4s.							

August.

Day	0 h. A. μ	0 h. Tp. s.	6 h. A. μ	6 h. Tp. s.	12 h. A. μ	12 h. Tp. s.	18 h. A. μ	18 h. Tp. s.
1	0·0	—	0·0	—	0·0	—	0·0	—
2	0·3	3·3	0·0	—	0·0	—	0·0	—
3	0·3	3·2	0·4	3·0	0·2	4·8	0·3	3·9
4	0·3	3·6	0·3	3·5	0·3	3·9	0·2	4·7
5	0·4	5·6	0·2	5·4	0·2	5·4	0·2	5·0
6	0·2	5·6	0·0	—	0·0	—	0·0	—
7	0·0	—	0·0	—	0·0	—	0·0	—
8	0·4	3·0	0·3	3·3	0·3	3·7	0·3	3·5
9	1·2	3·5	0·8	4·0	0·4	5·4	0·5	5·0
10	0·5	4·7	0·5	4·8	0·3	4·3	0·3	4·0
11	...	...	0·0	—	0·3	4·1	0·3	4·3
12	0·3	4·1	0·3	4·0	0·0	—	0·3	4·0
13	0·3	4·3	0·3	4·5	0·3	4·3	0·3	4·3
14	0·5	4·8	0·5	4·3	0·5	4·1	0·6	4·0
15	0·5	4·5	0·5	5·0	0·5	4·8	1·1	5·0
16	1·4	5·0	0·7	5·0	1·1	4·1	0·7	4·5
17	0·9	5·0	0·6	3·9	0·8	3·9	0·8	4·1
18	0·5	4·0	0·5	4·1	0·3	4·3	0·3	4·3
19	0·3	4·3	0·3	4·3	0·3	4·3	0·3	3·9
20	0·8	4·3	1·7	4·5	1·0	4·5	0·7	4·5
21	0·8	4·1	1·3	4·3	0·5	4·3	0·5	4·3
22	0·3	3·7	0·3	3·5	0·3	3·6	0·3	4·3
23	0·3	4·1	0·3	4·0	0·3	4·5	0·3	4·3
24	0·3	4·0	1·4	4·0	2·5	4·5	4·4	5·0
25	2·3	5·0	2·4	4·8	2·1	4·8	1·0	4·7
26	0·5	4·3	0·2	4·7	0·2	5·0	0·3	4·3
27	0·3	4·5	0·5	5·0	0·7	4·7	1·5	4·5
28	1·7	4·8	1·5	4·5	1·1	4·1	0·8	4·0
29	1·1	4·1	0·5	4·1	0·3	4·1	0·3	3·7
30	0·3	3·7	0·3	3·7	0·0	—	0·0	—
31	0·0	—	0·0	—	0·0	—	0·0	—
Mean ...	0·6	4·3	0·5	4·3	0·5	4·4	0·5	4·3
Mean for day ...	A = 0·5μ ; Tp = 4·3s.							

September.

Day	0 h. A. μ	0 h. Tp. s.	6 h. A. μ	6 h. Tp. s.	12 h. A. μ	12 h. Tp. s.	18 h. A. μ	18 h. Tp. s.
1	0·0	—	0·0	—	0·0	—	0·0	—
2	0·0	—	0·0	—	0·3	4·0	0·3	3·5
3	0·3	4·0	0·6	3·5	0·3	3·5	0·3	3·3
4	0·3	4·3	0·3	4·0	0·3	4·5	0·7	5·0
5	0·2	4·7	0·3	4·5	0·3	4·1	0·3	4·1
6	0·5	4·7	0·3	3·7	0·3	3·6	0·3	3·5
7	0·3	3·3	0·3	4·5	0·3	4·5	0·2	4·7
8	0·3	4·5	0·2	4·7	0·2	4·8	0·2	5·0
9	0·2	5·4	0·2	4·8	0·2	4·7	0·2	4·7
10	0·2	5·0	0·3	4·5	0·0	—	0·0	—
11	0·0	—	0·0	—	0·0	—	0·0	—
12	0·0	—	0·0	—	0·2	4·8	0·5	5·0
13	0·5	5·0	0·2	4·7	0·3	4·3	0·2	4·8
14	0·2	5·8	0·2	4·7	0·2	5·6	0·2	4·7
15	0·2	5·2	0·2	5·4	0·2	5·2	0·2	5·2
16	0·2	5·4	0·2	5·2	0·2	5·6	0·2	5·2
17	0·2	5·0	0·2	4·8	0·2	5·0	0·2	4·8
18	0·2	4·7	0·2	5·2	0·2	4·7	0·2	5·0
19	0·2	6·0	0·6	6·0	0·6	6·3	0·7	6·7
20	0·7	6·5	0·6	5·8	0·4	6·3	0·2	6·3
21	0·3	7·5	0·4	5·4	...	...	0·2	5·0
22	0·2	5·0	0·2	5·6	0·2	4·7	0·2	5·4
23	0·2	5·2	0·2	5·2	0·2	5·0	0·2	5·0
24	0·2	5·2	0·2	5·4	0·2	6·0	0·2	6·0
25	0·2	5·8	0·4	6·3	0·4	5·6	0·7	6·7
26	0·4	5·8	0·4	6·7	0·2	6·0	0·4	6·5
27	0·4	6·7	0·4	6·0	0·4	6·0	0·2	5·6
28	0·2	6·0	0·2	6·5	...	...	0·2	6·0
29	0·2	6·0	0·2	5·0	0·6	6·5	1·1	6·0
30	1·0	6·7	0·6	6·5	0·4	5·6	0·4	5·2
31								
Mean ...	0·3	5·4	0·3	5·2	0·3	5·1	0·3	5·1
Mean for day ...	A = 0·3μ ; Tp = 5·2s.							

October.

Day	0 h. A. μ	0 h. Tp. s.	6 h. A. μ	6 h. Tp. s.	12 h. A. μ	12 h. Tp. s.	18 h. A. μ	18 h. Tp. s.
1	0·4	5·2	0·4	5·2	0·4	5·2	...	...
2	1·3	5·2	1·1	5·6	1·3	5·6	1·6	5·8
3	2·3	7·3	3·5	8·0	2·8	7·5	2·2	7·0
4	...	...	1·7	7·3	1·4	7·5	1·3	8·3
5	1·4	8·3	1·2	7·7	1·0	6·5	1·1	6·5
6	0·6	5·6	1·3	5·6	0·6	6·0	1·1	6·5
7	1·0	6·5	1·4	6·0	1·5	6·5	1·7	6·3
8	1·9	6·3	1·5	6·7	...	...	0·4	6·3
9	0·5	5·2	0·5	5·0	0·2	5·0	0·9	5·2
10	...	...	...	...	0·6	5·8	1·1	5·6
11	1·6	6·3	1·6	6·3	1·8	6·5	1·5	7·0
12	1·9	6·7	1·9	6·7	1·4	6·5	0·6	5·6
13	0·7	5·0	0·2	5·4	0·2	5·0	0·4	6·0
14	0·2	5·0	0·2	5·0	0·6	5·8	0·4	6·0
15	0·4	6·3	0·2	5·2	0·4	5·8	0·4	5·6
16	0·2	5·2	0·4	5·6	0·2	5·6	0·2	5·4
17	0·2	5·4	0·2	4·8	0·2	5·0	0·2	5·4
18	0·2	5·2	0·2	4·7	0·0	—	0·0	—
19	0·0	—	0·0	—	0·2	5·6	0·2	5·0
20	0·2	5·0	0·6	6·0	1·8	7·3	1·8	7·5
21	1·6	7·3	1·8	7·3	1·3	6·7	1·4	6·5
22	0·8	6·0	0·7	5·2	0·8	6·0	0·5	5·2
23	1·1	5·4	0·5	5·0	0·5	4·7	0·5	5·2
24	0·5	4·8	1·2	4·8	0·5	4·7	0·5	4·7
25	0·5	4·8	1·2	4·8	0·7	5·0	0·5	5·0
26	0·7	5·2	0·6	5·8	0·6	5·6	0·5	4·8
27	0·7	5·0	0·6	6·0	0·6	5·6	0·8	6·0
28	0·4	5·6	0·4	6·0	0·5	5·0	0·4	5·8
29	0·4	6·0	0·7	5·0	1·4	6·0	0·8	6·0
30	1·7	6·0	0·5	4·7	0·4	5·4	0·7	5·0
31	0·7	5·4	0·5	5·2	0·3	4·5	0·2	4·8
Mean ...	0·8	5·8	0·9	5·7	0·8	5·8	0·8	5·9
Mean for day ...	A = 0·8μ ; Tp = 5·8s.							

November.

Day	0 h. A. μ	0 h. Tp. s.	6 h. A. μ	6 h. Tp. s.	12 h. A. μ	12 h. Tp. s.	18 h. A. μ	18 h. Tp. s.
1	0·2	5·2	0·2	5·0	0·2	5·0	0·2	5·0
2	0·5	5·0	0·4	5·4	...	...	0·2	5·6
3	0·2	4·8	0·5	4·3	1·2	5·0	1·2	5·0
4	1·8	4·7	2·2	6·0	2·3	5·6	2·2	5·6
5	2·2	5·4	1·1	5·2	...	...	1·1	5·8
6	2·1	5·2	2·1	5·0	1·9	6·0	1·9	5·6
7	1·9	5·6	1·3	5·8	0·7	5·4	1·3	4·3
8	1·2	3·7	1·5	5·8	0·9	6·7	1·7	7·0
9	1·8	7·3	1·9	7·0	2·3	5·8	1·7	8·0
10	2·7	8·0	3·1	9·0	4·7	9·0	4·6	8·3
11	3·4	8·3	3·2	6·7	1·8	7·5	1·3	7·0
12	1·2	5·0	0·6	6·3	0·6	5·8	0·5	5·0
13	0·7	5·0	0·5	5·0	0·4	5·4	1·6	5·2
14	1·7	5·6	1·8	7·5	2·5	6·7	1·9	6·7
15	2·0	6·5	1·7	6·7	1·1	7·3	0·8	6·3
16	1·2	6·5	0·6	5·8	0·6	6·0	1·4	6·0
17	1·9	6·7	1·8	7·3	1·3	7·0	1·4	6·5
18	0·8	6·3	1·5	5·8	2·1	5·0	2·1	5·0
19	2·2	5·4	2·1	5·0	1·5	5·6	1·6	5·2
20	1·6	5·0	1·4	6·3	0·8	6·5	1·2	6·0
21	1·4	6·3	1·6	6·3	2·8	7·7	3·4	8·7
22	4·3	8·3	3·7	8·7	2·7	8·0	3·3	7·0
23	3·1	5·4	3·5	5·6	2·7	6·0	2·8	6·3
24	2·3	5·2	1·9	5·8	1·8	6·5	1·9	5·8
25	2·0	5·4	1·5	5·8	1·8	7·3	2·6	7·5
26	1·6	6·5	1·6	6·3	2·0	4·7	1·6	5·0
27	1·6	6·3	1·5	5·6	2·1	6·0	1·9	6·0
28	2·1	5·8	0·9	5·2	0·6	6·7	0·8	5·8
29	0·4	5·6	1·1	5·6	1·6	6·5	1·1	5·6
30	1·6	6·3	1·7	7·0	1·5	6·7	1·3	6·7
31								
Mean ...	1·7	5·9	1·6	6·1	1·7	6·3	1·7	6·1
Mean for day ...	A = 1·7μ ; Tp = 6·1s.							

December.

Day	0 h. A. μ	0 h. Tp. s.	6 h. A. μ	6 h. Tp. s.	12 h. A. μ	12 h. Tp. s.	18 h. A. μ	18 h. Tp. s.
1	1·6	6·3	1·5	7·0	1·2	6·5	1·7	7·0
2	1·3	5·4	1·5	5·8	1·3	5·8	1·4	6·3
3	1·1	5·8	2·0	6·5	3·7	7·0	3·9	7·0
4	7·4	7·0	8·5	7·0	3·7	6·5	4·8	6·0
5	4·1	7·0	3·9	6·5	2·5	6·5	2·9	6·5
6	2·5	6·7	2·5	6·5	2·2	6·3	2·2	6·3
7	2·0	6·3	2·1	6·0	2·1	6·0	2·1	6·0
8	1·9	7·0	1·9	7·0	2·8	7·0	3·4	8·3
9	4·6	8·3	3·9	8·0	3·4	8·0	1·7	8·0
10	1·6	7·7	1·5	6·7	1·3	5·4	1·9	6·7
11	2·0	6·5	1·6	6·3	1·6	6·3	1·9	7·0
12	1·4	6·5	1·0	6·3	0·8	6·0	1·1	6·7
13	1·0	6·5	0·8	6·5	0·4	6·3	0·6	6·3
14	0·2	5·2	0·2	5·4	0·4	5·4	1·1	5·8
15	1·9	6·0	1·9	5·8	1·1	5·4	1·1	5·4
16	1·7	5·8	2·1	6·0	1·9	5·6	2·0	5·4
17	1·9	5·8	1·9	5·6	1·3	5·4	1·5	5·8
18	1·1	5·8	0·7	5·2	0·6	6·3	1·5	8·3
19	1·8	7·5	1·7	7·7	1·8	7·5	1·8	7·5
20	1·9	7·5	1·9	7·5	1·8	7·5	1·8	7·5
21	0·6	7·0	0·8	6·7	0·8	6·0	0·6	6·5
22	1·5	7·0	1·3	7·0	1·5	6·7	1·4	6·3
23	2·0	6·5	2·0	6·5	2·0	6·5	1·7	6·7
24	1·7	6·7	0·8	6·5	2·1	5·2	0·9	5·0
25	2·0	6·3	2·9	6·7	2·6	7·7	2·6	7·7
26	2·3	7·5	2·0	7·0	0·8	6·0	1·9	6·0
27	1·7	6·0	1·1	5·8	2·1	6·0	2·1	6·0
28	3·0	6·3	3·0	5·8	2·8	6·3	2·9	6·0
29	2·9	6·0	2·1	6·0	1·7	6·7	1·8	6·5
30	1·0	6·3	0·2	5·6	c·2	6·0	0·2	6·3
31	0·2	6·0	0·2	5·8	0·4	6·3	0·4	6·5
Mean ...	2·0	6·5	1·9	6·4	1·7	6·3	1·8	6·6
Mean for day ...	A = 1·9μ ; Tp = 6·5s.							

NOTE.—The symbol ... indicates that microseisms were not measured, either by reason of occurrence of earthquakes or lack of record.

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M.O. 350
Aerological

Air Ministry

METEOROLOGICAL OFFICE

THE OBSERVATORIES' YEAR BOOK 1931

Comprising the meteorological and geophysical results obtained from autographic records and eye observations at the observatories at Lerwick, Aberdeen, Eskdalemuir, Cahirciveen (Valentia Observatory), and Richmond (Kew Observatory), and the results of soundings of the upper atmosphere by means of registering balloons.

AEROLOGICAL SECTION

Published by the authority of the
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1933

AEROLOGICAL SECTION.

Station.		Latitude.		Longitude.		Height above Sea Level.
Kew Observatory	..	51° 28′ N.	..	0° 19′ W.	..	7 metres.
Sealand ..	..	53° 14′ N.	..	3° 0′ W.	..	5 metres.

INTRODUCTION.

Notes on the tables of Upper Air Temperatures obtained from soundings with registering balloons at Richmond and Sealand, 1931.

The tables in the Aerological Section are presented in the same form as those appearing in the Observatories' Year Book for 1930. As in that volume geopotential is used in place of geometric height for the vertical coordinate. The units employed are:

1 Leo (symbol l) $=10^5$ c.g.s. units of geopotential.
1 Kiloleo (symbol Kl) $=10^8$ c.g.s. ,, ,, ,,

A table shewing the relation between height and geopotential in latitude 52° 20′, the approximate mean latitude of Kew Observatory and Sealand, is given in the Introduction to the Aerological Section of the Observatories' Year Book, 1930.

The Dines pattern meteorograph was employed solely as before and the method of operation remained the same as in recent years. A full description will be found in "The Dines Balloon Meteorograph and the method of using it."* In the computation of pressure-geopotentials the graphical method was employed, checked as to its main features by an arithmetical process. The effect of humidity on the density of the air was neglected.

A total of 43 soundings were made during the year, 33 from the Aviation Service Station of the Meteorological Office at Sealand Aerodrome and 10 from Kew Observatory. In the cases of 33 of these soundings the instruments were found and returned, the rest being lost. The choice of station from which a sounding was made was generally determined in view of the probable direction and length of the run of the balloon.

The ventilation of the Dines meteorograph is effected solely by the natural draught produced by its vertical velocity. The vertical velocity of the rising balloon was of the order of 220 metres per minute in about 40% of the successful soundings and of the order of 310 metres per minute in the remaining 60%. After the balloon had burst the meteorograph normally fell at the rate of about 700 metres per minute.

As regards temperature, unless stated to the contrary the mean of the records on the ascent and descent was employed entirely in computing the published figures. In general the difference between the two records did not exceed 4°A., with a mean of about half that amount. Whenever direct evidence is available it is almost always found that in the troposphere the descending record is the colder of the two. An analysis of a large number of British soundings has led to the conclusion that as far as the troposphere is concerned this effect is mainly due to a temperature lag of the thermograph member, and that the mean of the two records gives in general a close approximation to the true air temperature.† Occasionally in exceptional circumstances it is deemed best to give greater weight to one record than to the other, or to publish the data from one record only. All such occasions are mentioned in the notes, they generally refer either to occasions of strong solar radiation when the less vigorous ventilation of the meteorograph on the ascent makes that record less reliable than that of the descent, or to the lowest layers of the troposphere only.

* M.O. 321, H.M. Stationery Office.

† See also:—Memoirs of the Indian Meteorological Department. Vol. XXIV. Part V. By J. H. Field.

In the case of high soundings made during the day-time a pronounced rise of temperature is sometimes observed over about a kiloleo at the extreme top. There is good evidence that this is a fictitious effect due to solar radiation and that the ascent is a great deal more affected by it than the descent. The rise of temperature in such cases is therefore usually ignored, and in addition greater weight is given to the descent than to the ascent in the upper parts of such records as show an unusually large difference between them. All occasions on which such selection has been made are specifically mentioned in the notes. An account of this phenomenon is to be found in " Memoirs of the Royal Meteorological Society," Vol. 2, No. 18. By L. H. G. Dines.

In most cases during 1931 the meteorograph was fitted with a hair hygrograph. Only one record of relative humidity in each case has been published, which unless specifically mentioned to the contrary in the notes is that of the ascent. The record of the descent appears to be the less reliable for two reasons, first that the previous exposure of the hair to extreme cold and dryness makes it more sluggish in response to changes in the relative humidity, second that the higher velocity at which the meteorograph falls increases the lag in its response reckoned in terms of height. The hygrometer readily shows changes in the relative humidity in the lower part of the troposphere, but the absolute value of its readings may be subject to an uncertain error of five or more on the percentage scale. At temperatures below the freezing point the relative humidity is computed with respect to water not ice. Below a temperature of 250° A. it seems very doubtful if in the ordinary way the record has any meaning, and the figures for the higher parts of the atmosphere have not therefore been published.

In order to ensure as far as possible that the hygrograph works under standard conditions, it is normally exposed to a saturated atmosphere for ten minutes about an hour before the sounding is made.

The method employed in calibrating the hygrograph is as follows :—It is first immersed in either water or a saturated atmosphere for at least ten minutes, and a mark made by the scriber on the record plate which is taken as corresponding with steady saturated conditions. It is then taken out, roughly dried to remove superfluous water, and placed as soon as possible in a testing chamber through which a current of air flows continually. The relative humidity of the air stream is next reduced in two or more stages to a minimum value of about 20%, plenty of time being allowed at each stage for the conditions to become steady. When in each case steady conditions have been attained a mark is made by the scriber. The object of the test is to obtain two marks at relative humidities near 25%, and in such case the total time taken is about 25 to 30 minutes from the instant when the hygrograph is removed from the water in the first place. If the relative humidity is reduced in more than two stages the total time taken is greater, allowing about ten minutes per stage. The calibration is carried out at temperatures above 288°A.

When the contraction of the hair corresponding with a relative humidity of 25% has been determined in the manner described, the contraction throughout the scale under the conditions met with in the sounding is assumed to follow an empirical law, which has been determined from the average behaviour of a large number of hairs. A table expressing this law appeared in the Introduction to the Aerological Section of the Year Book for 1930 and represented the procedure which had been adopted up to the end of that year. As a result of further experiments made in 1931 it was found desirable to amend the statement of the empirical law of contraction of the hygrograph hairs, and for purposes of tabulation since January, 1931, the following table has been used :

Relative humidity %	110	100	95	90	80	70	60	50	40	30	25
Contraction of hair. / Saturated length.	— ·07k	00k	·035k	·080k	·185k	·315k	·45k	·59k	·74k	·90k	·99k

Here, the quantity k is defined as the contraction of the hair from its saturated length at the relative humidity of 25% expressed as a fraction of the saturated length, and determined as set out in the preceding paragraph.

The average value of k has been found to be about ·0099, but individual hairs differ from the mean by anything up to 15% on either side. This figure is based on observations made on about 80 meteorographs, involving 40 or more entirely separate human hairs derived from various sources.

In working up the records for 1931 the hair has been assumed to have a uniform absolute coefficient of thermal expansion of 34×10^{-6} per degree °A. Since the frame of the hygrograph is made of nickel silver having a coefficient of 18×10^{-6} the relative expansion of hair to frame is 16×10^{-6} per degree °A.

No allowance has been made in computing the published figures for the fact that the results of the calibration are not necessarily valid at low temperatures below the freezing point.

It has been noticed on many occasions that on passing through a cloud the hygrograph hairs expand more than they do when immersed in water or in an artificial saturated atmosphere; heretofore these occasions have been uniformly tabulated as 100%. This phenomenon is not yet fully understood, but it has been proved that it is not due to errors in calibration or setting of the instrument; accordingly in this volume its occurrence is indicated by publishing a value of the relative humidity in excess of 100%. The values are determined by extrapolation of the table upwards through 100, the extension being indicated in brackets. If, for example, the hairs are found to have extended by ·035k beyond their length when immersed in water at the same temperature the relative humidity is tabulated as 105%, but there is not enough evidence to be able to state what exactly is the corresponding physical condition of the atmosphere in regard to water vapour.

Data of well marked inversions and regions of zero lapse rate in the troposphere are included in the notes on the soundings. They are set out in a uniform manner on the principle that corresponding values of geopotential, temperature and relative humidity are given for the salient points in each special case, the sequence being always from lesser geopotentials to greater.

The figures given in the table of lapse rates do not in every case agree with the temperatures appearing in the table of temperature-geopotentials. The reason for this is that both were determined independently from the original data, which can sometimes profitably be read to the nearest half degree, but are rounded off to whole degrees for publication.

The lapse rates given between ground level and 0·5 Kl. are determined from the reading in the thermometer screen at the station and that of the meteorograph at 0·5 Kl. A source of error arises here in that the two standards are independent and are not exposed in the same manner. A small difference is capable of making an appreciable error in the lapse rate, and it is possible that lapse rates apparently greater than 10°A. per Kl. in this layer are sometimes due to this cause.

Whenever possible the meteorograph was calibrated again after return before the record plate had been disturbed, in order to discover whether any shift of zero had taken place since the previous calibration. Some disturbance is almost inevitable considering the rough treatment experienced, more especially in the shock of the fall.

All new meteorographs, and all old ones used again after repair, were seasoned in a vacuum chamber before use by being subjected to several slow reductions of pressure. This process has been found greatly to reduce the chance of a systematic difference occurring between the results of a fast and slow calibration. More detail is given in the Introduction to the tables for 1923, and within the limits of accuracy at present attainable in the measurement of upper air pressures, the results of the fast reduction of pressure in the calibration test may be taken as applying to the slow reduction in the actual sounding.

The lag, or difference in pressure reading as between a falling and a rising pressure, is of the order 3 or 4 millibars on the average in the middle region of a high sounding, falling off to lesser values on either side. If a correction be applied to the recorded temperature-pressures to allow for this error, it results, for an average sounding in the troposphere, in an increase in the difference between the temperatures recorded at any pressure on the ascent and descent. The effect is to make the recorded temperatures on the descent too high by about half a degree at a level of 6 or 7 kiloleos, with a tendency for the error to fall off above and below. When the mean of the two records is employed the resultant error is halved and becomes negligible.

In Table 548 occur the entries "Type of Tropopause" and "L_c=Geopotential at Tropopause." These are defined as follows:—Type I. The stratosphere commences with an inversion, and L_c is the geopotential at the first point of zero temperature gradient. Type II. The stratosphere begins with an abrupt transition to a temperature gradient below 2°A. per kiloleo without inversion, and L_c is the geopotential of the abrupt transition. Type III. There is no abrupt change of temperature gradient, and the base of the stratosphere is taken at the point where the mean fall of temperature for the kiloleo next above is 2°A. or less, provided that it does not exceed 2°A. for any subsequent kiloleo. In the Remarks on the Soundings the pressure distribution is classified according to the types defined in "Aids to Forecasting."†

†—E. Gold, F.R.S., Geophysical Memoir No. 16, M.O. 220f, London, 1920.

548. $T.$=Temperature in degrees absolute. $P.$=Pressure in millibars.
$L.$=Geopotential Level above M.S.L. in kiloleos (Kl.) $RH.$=Relative Humidity as percentage. 1931.

No. of Sounding.	826.	827.	828.	830.	832.	833.	834.	836.
Date.	Feb. 5.	Feb. 7.	Feb. 9.	Feb. 11.	Feb. 13.	Feb. 14.	Feb. 15.	Feb. 17.
Station.	Sealand.	Sealand.	Sealand.	Sealand.	Sealand.	Sealand.	Kew.	Kew.
Start G.M.T.	17h. 25m.	7h. 35m.	7h. 40m.	7h. 30m.	7h. 35m.	7h. 25m.	7h. 25m.	17h. 30m.
L_t=Geopotential at Greatest Height ... ... (Kl.)	16·82	16·23	13·87	16·37	17·61	20·47	11·65	7·39
T_t=Corresponding Temperature ... ... (°A.)	212	214	213	213	217	213	213	221
P_t=Corresponding Pressure ... ... (mb.)	80	89	135	87	72	43	187	350
Place of Fall	Ilmington Downs, Shipston on Stour, Worcs.	Fyfield, Abingdon, Berks.	Boston West, Lincolnshire.	Slawston, Market Harborough, Leicestershire	Pinvin, Pershore, W'cestershire	Thorne, Nr. Yeovil, Somerset.	Iden, Rye, Sussex.	Tilford, Farnham, Surrey.
Distance ... ... (Km.)	154	203	198	163	136	253	91	44
Bearing. Degrees from N.	145	147	96	117	150	175	126	224
Geostrophic Wind— Speed ... ... (m/s.)	19	4	10	18	20	8	8	17
Degrees from N.	185	260	265	265	315	395	250	70
Wind (Anemograph)— Speed ... ... (m/s.)	7	calm.	2	2	12	5	1	4
Degrees from N.	135	—	225	225	305	325	225	25
Humidity at surface ... ... (%)	85	96	84	80	84	80	96	81
Type of Tropopause	I.	I.	I.	I.	I.	I.	I.	—
L_c=Geopotential at „ ... ... (Kl.)	11·54	10·17	11·80	10·23	6·55	12·20	10·27	—
T_c=Temp. at „ ... ... (°A.)	203	211	208	213	225	204	212	—
P_c=Pressure at „ ... ... (mb.)	192	237	190	233	400	169	234	—
Mean Temp. in Stratosphere (L_c+2) to (L_c+5) ... ... (°A.)	212	217	—	219	227	211	—	—
(L_c+5) to (L_c+8) ... ... (°A.)	—	—	—	—	223	212	—	—
(L_c+8) to (L_c+11) ... ... (°A.)	—	—	—	—	218	—	—	—
T_m (Mean Temp. 1 to 9 Kl.) ... ... (°A.)	249	246	256	244	241	246	248	—
P (Pressure at M.S.L.) ... ... (mb.)	1019	1013	1009	1014	997	1015	1009	998

549. 1931.

REMARKS ON THE SOUNDINGS AND THE PREVAILING WEATHER CONDITIONS, 1931.

No. of Sounding.

826. Weather om. Clouds St. 10/10 at about 1 Kl. From the record of relative humidity a cloud layer existed from 1·0 to 1·7 Kl. The relative humidity of 95% registered at 5·1 Kl. at a temp. of 249° A. suggests that either a water cloud existed there, or a state of supersaturation in an ice cloud. Pressure distribution :—Low to the west of Ireland, moving S.E. General southerly current over the British Isles with a north-westerly current above it. Type Va.

827. Weather bcf. Clouds St-Cu. 6/10 at about 1 Kl. *Inversion*, (1·37—1·56 Kl., 850—830 mb., 269—271°A., 73—56%). Pressure distribution :—A region of small pressure gradients exists over England with a north-west current above. The system is about to come under the influence of a large low situated to the SW of Ireland. Type V.

828. Weather cloudy. Clouds A–St. and St–Cu. 9/10 from west at about 1 Kl. From the record of relative humidity a cloud layer existed from 1 Kl. to 1·5 Kl. On the descent a slight *inversion*, or *isothermal* existed near the ground, upper limit at (0·90 Kl., 903 mb., 280°A.). *Isothermal*, (1·31—1·47 Kl., 857—840 mb., 277°A., 101–100%), *inversion* (1·79—2·27 Kl., 807—759 mb., 275–275·5°A., 85—42%). Pressure distribution :—An intense depression over Iceland with a shallow secondary Vee crossing the British Isles. Type V.

830. Weather bc. Clouds St., St–Cu. and Fr–Cu. 4/10 from SW'W at about 0·5 Kl. Pressure distribution :—A large deep depression to the north-east of Iceland, with a secondary west of the north of Scotland travelling east. Type II.

832. Weather bcq. Clouds Cu–Nb., St–Cu. 4/10 from NW at about 0·5 Kl. Cirrus 1/10 from N'W. The mean of both records of temperature was used throughout except near the ground where a slight bias was made towards the ascending one. Pressure distribution :—Low over the North Sea, high over the Azores, with an extensive north-westerly current between. Type I.

833. Weather b. Clouds Cu. 1/10 from NNW at about 1 Kl. *Inversion*, (4·20—4·63 Kl., 578—544 mb., 248·5—251°A., 31—29%). Pressure distribution :—Lows over Iceland and Italy, highs over Azores and northern Russia with a shallow tongue of high pressure running up the western coasts of the British Isles. Type X.

834. Weather os, snow on ground. Clouds St–Nb. 10/10 at about 0·4 Kl. A small temperature gradient or inversion near the ground with an upper limit at 0·9 Kl. Pressure distribution :—The large low near Iceland referred to in the foregoing has deepened and moved ESE and now dominates the pressure conditions over the British Isles. Type I.

836. Weather b. Clouds Cirrus 1/10. Pressure distribution :—Low over France, with a strong north-easterly current in the north and west of England. Type IXa.

$T.$=Temperature in degrees absolute. $P.$=Pressure in millibars.
$L.$=Geopotential Level above M.S.L. in kiloleos (Kl.) $RH.$=Relative Humidity as percentage.

548. **1931.**

No. of Sounding. Date. Station.	838. Feb. 19. Sealand.	839. Feb. 20. Sealand.	840. Feb. 21. Sealand.	841. Feb. 23. Sealand.	842. Feb. 25. Sealand.	843. Feb. 27. Sealand.	844. Mar. 11. Sealand.	845. Apr. 9. Kew.	846. May 13. Kew.
Start G.M.T.	17h. 30m.	17h. 30m.	17h. 30m.	17h. 35m.	17h. 50m.	17h. 30m.	17h. 40m.	15h. 15m.	13h. 38m.
L_t=Geopotential at Greatest Height (Kl)	17·77	14·56	19·25	12·67	19·78	11·75	16·19	4·18	4·63
T_t=Corresponding Temperature (°A.)	212	219	218	221	213	220	218	263	263
P_t=Corresponding Pressure ... (mb.)	70	117	56	161	52	183	89	599	566
Place of Fall	Ashchurch, Tewkesbury, Gloucester.	Hatfield Woodhouse, Doncaster, Yorkshire.	Wansford, Peterborough Hunts.	Deerhurst, Tewkesbury, Gloucester.	Whittington Common, Lichfield, Staffs.	Worksop, Notts.	Studley, Warwickshire	Clapham, London.	Ware, Herts.
Distance ... ... (Km.)	150	73	187	150	103	125	128	13	43
Bearing. Degrees from N.	156	140	111	159	126	87	146	95	28
Geostrophic Wind— Speed ... ... (m/s.)	13	13	8	7	14	4	8	5	9
Degrees from N.	240	300	290	325	280	10	330	280	205
Wind (Anemograph)— Speed ... ... (m/s.)	1	6	5	4	5	2	3	3	4
Degrees from N.	190	315	270	295	235	155	270	245	205
Humidity at surface ... ... (%)	78	93	75	85	77	93	69	77	51
Type of Tropopause	II.	I.	I.	I.	I.	I.	I.	—	—
L_c=Geopotential at „ ... (Kl.)	10·67	11·51	7·73	10·49	11·36	9·45	9·46	—	—
T_c=Temp. at „ ... (°A.)	210	211	222	211	209	212	213	—	—
P_c=Pressure at „ ... (mb.)	223	193	339	230	206	265	261	—	—
Mean Temp. in Stratosphere (L_c+2) to (L +5) (°A.)	215	—	225	—	214	—	219	—	—
(L_c+5) to (L_c+8) (°A.)	—	—	223	—	213	—	—	—	—
(L_c+8) to (L_c+11) (°A.)	—	—	220	—	—	—	—	—	—
T_m (Mean Temp. 1 to 9 Kl.) (°A.)	250	250	241	249	256	247	243	—	—
P_s (Pressure at M.S.L.) ... (mb.)	1014	1003	1011	1022	1016	1007	1012	1019	1014

549. **1931.**

No. of Sounding.

REMARKS ON THE SOUNDINGS AND THE PREVAILING WEATHER CONDITIONS, 1931.

838. Weather cm_o. Clouds St. and Fr–St. 10/10 from SW at about 1·7 Kl. From the record of relative humidity a cloud layer existed between 2·5 Kl. and 3·27 Kl., having a lapse rate of 16 in a thin layer just above it. A further cloud layer began at about 5·7 Kl., the thickness of which was not determined. *Isothermal* on ascent, (3·44—3·76 Kl., 650—622 mb., 260°A., 75—56%). Pressure distribution :—Lows over Iceland and the Mediterranean, highs over the Azores and Russia with a region of small gradients over the south of England and France. Type V.

839. Weather cr_o. Clouds Nb. and St–Cu. 9/10 from W at about 0·8 Kl. *Inversion* on descent, (4·98—5·17 Kl., 522—508 mb., 250—251°A.), *Inversion* on ascent. (5·20—5·33 Kl., 506—497 mb., 250—251°A., 62—63%). Pressure distribution :—An intense depression between Iceland and Norway is moving eastwards, Type Va.

840. Weather bc. Clouds Cu. and Cu–Nb. 4/10 from WNW at about 1 Kl. Pressure distribution :—Low near Spitzbergen, high west of Spain ; westerly current over the whole of the British Isles. Type I.

841. Weather cloudy. Clouds St. and St–Cu. from NW'W at about 0·6 Kl. Two meteorographs sent up together with one balloon, mean of both records employed. Several cloud layers were passed through between the surface and 3 Kl. *Isothermal*, (3·70—4·12 Kl., 630—595 mb., 255°A., 48—48%). Pressure distribution :—High over the Bay of Biscay, shallow low over the North Sea with a small gradient for north westerly winds between. Type IV.

842. Weather cloudy. Clouds St. and St–Cu. 10/10 from W at about 0·6 Kl. *Isothermal*, (0·81—0·99 Kl., 920—900 mb., 282°A., 97—95%). Pressure distribution :—Region of low pressure to the west of Norway, high over the Azores, Bay of Biscay and France, with a general gradient for westerly winds over Britain. Type II.

843. Weather or_om_o. Clouds Nb. 10/10 from SE at about 0·25 Kl. Pressure distribution :—Dumbbell low travelling eastwards across Britain, with one centre just south of Ireland and the other near the Orkneys. Type XIV.

844. Weather bc. Clouds St–Cu. and Fr–Cu. 4/10 from NW'N at about 1·4 Kl., Cirrus 2/10 from NW. The record of relative humidity suggests that the instrument emerged from a cloud at about 1·7 Kl. *Inversion*, (1·66—1·95 Kl., 817—786 mb., 262·5—264°A., 97—55%). Pressure distribution :—Low over the Baltic, high over the Atlantic west of Ireland with a general northerly current between. Type X.

845. Weather od_o. Clouds St–Cu. 7/10, Fr–Cu. 3/10. *Isothermal*, (1·95—2·07 Kl., 800—788 mb., 274·5°A.). Pressure distribution :—Region of high pressure and small pressure gradients covering Britain and France. Type XIa.

846. Weather bc. Clouds A–Cu. 3/10 from SW, Ci. and Ci–Cu. 2/10 from SW. *Inversion* on descent, (1·35—1·73 Kl., 859—820 mb., 277·5—279°A.), *inversion* on ascent, (1·73—2·04 Kl., 820—789 mb., 279—280°A.). Pressure distribution :—A low west of Ireland is moving north east with pressure gradients for south westerly winds over Britain. Type Va.

548. $T.$ = Temperature in degrees absolute. $P.$ = Pressure in millibars. **1931.**
$L.$ = Geopotential Level above M.S.L. in kiloleos (Kl.) $RH.$ = Relative Humidity as percentage.

No. of Sounding.	847.	848.	849.	851.	852.	853.	854.	855.
Date.	May 21.	June 10.	June 11.	June 16.	June 17.	June 18.	June 19.	June 20.
Station.	Kew.	Sealand.	Sealand.	Sealand.	Sealand.	Sealand.	Sealand.	Sealand.
Start G.M.T.	18h. 00m.	17h. 45m.	7h. 15m.	6h. 45m.	18h. 15m.	6h. 50m.	6h. 30m.	6h. 30m.
L_t=Geopotential at Greatest Height ... (Kl.)	21·08	16·82	16·54	20·28	5·09	16·06	19·73	11·36
T_t=Corresponding Temperature ... ... (°A.)	227	225	224	227	250	231	228	221
P_t=Corresponding Pressure ... ... (mb.)	46	89	94	52	520	102	56	211
Place of Fall	Market Drayton, Salop.	Catswick, nr. Hull, Yorks.	Cottingham, nr. Hull, Yorks.	Pockley, Nawton, Yorks.	Alvanley, Warrington, Cheshire.	Wormhill, Buxton, Derbyshire.	Capenhurst, nr. Chester.	Pulverbatch, Shrewsbury, Salop.
Distance ... ... (Km.)	217	192	182	174	16	79	5	68
Bearing. Degrees from N.	322	67	69	48	76	87	45	172
Geostrophic Wind— Speed ... ... (m/s.)	8	11	13	18	11	13	4	4
Degrees from N.	95	220	275	210	270	260	160	20
Wind (Anemograph)— Speed ... ... (m/s.)	2	3	4	8	6	4	2	1
Degrees from N.	115	180	250	160	235	235	160	340
Humidity at surface ... ... (%)	76	72	68	79	61	71	95	74
Type of Tropopause	I.	I.	I.	I.	—	I.	II.	—
L_c=Geopotential at „ ... ... (Kl.)	10·77	10·52	11·79	11·26	—	9·46	7·94	—
T_c=Temp. at „ ... ... (°A.)	221	224	220	215	—	227	228	—
P_c=Pressure at „ ... ... (mb.)	227	237	197	212	—	276	340	—
Mean Temp. in Stratosphere (L_c+2) to (L_c+5) ... (°A.)	225	224	225	223	—	232	230	—
Mean Temp. in Stratosphere (L_c+5) to (L_c+8) ... (°A.)	224	—	—	226	—	—	227	—
Mean Temp. in Stratosphere (L_c+8) to (L_c+11) ... (°A.)	—	—	—	—	—	—	227	—
T_m (Mean Temp. 1 to 9 Kl.) ... ... (°A.)	256	257	258	258	—	253	250	257
P_s (Pressure at M.S.L.) ... ... (mb.)	1012	1005	1011	1009	1010	1010	1003	1021

549. **1931.**

No. of Sounding.

REMARKS ON THE SOUNDINGS AND THE PREVAILING WEATHER CONDITIONS, 1931.

847. Weather overcast. Clouds St. 10/10 at about 0·4 Kl. The balloon did not burst and floated at the highest point for a time. The mean of the ascending and descending records of temperature was employed except from 17 Kl. upwards where there was a growing difference between the two and a bias was made towards the descending record; a very large rise which occurred at the top was ignored. *Inversion*, (0·68–1·21 Kl., 930–870 mb., 277·8–278·2°A., 82–103%), *inversion* on ascent, (4·65–5·10 Kl., 557–524 mb., 259·4–260·0°A., 50–42%), *inversion* on descent, (5·24–5·45 Kl., 514–500 mb., 252·5–254·0°A.). Pressure distribution:—High over Scandinavia, a shallow low over the Atlantic to the west and south-west of Ireland. Type VIIc.

848. Weather od_o. Clouds Cu–Nb. and St–Cu. 10/10 from SSW at about 0·6 Kl. Rather a large difference occurred between the temperatures on the ascending and descending records, especially near the top. Above 11·7 Kl. in determining the temperature a bias was made towards the descending record, while a rise at the extreme top was ignored. *Inversion* on descent, (2·39–2·45 Kl., 747–741 mb., 272·4–273·5°A.). Pressure distribution:—A depression with a centre near the North of Ireland forms part of a trough running NE–SW through the North of Scotland. A region of higher pressure exists over France and Spain. Type Va.

849. Weather bcv. Clouds Cirrus trace, St–Cu. 5/10 from W at about 0·7 Kl. Mean of both records of temperature employed, except near the extreme top where a rise of a pronounced nature was ignored. *Inversion*, (1·40–1·79 Kl., 850–810 mb., 275·5–279·0°A.), *isothermal*, (9·07–9·27 Kl., 300–291 mb., 231·5°A.). Pressure distribution:—A shallow trough extends ENE–WSW across the North of Scotland, a small wedge of high pressure running from Cornwall across Ireland is moving north east. Type III.

851. Weather cr_o. Clouds St–Cu. and Nb. 10/10 from SSW at about 0·8 Kl. Mean of both records of temperature employed except below 1 Kl., where a slight bias was made towards the ascending record. *Inversion* on descent, (1·11–1·25 Kl., 879–865 mb., 276·5–278·3°A.), *isothermal*, on ascent (1·16–1·50 Kl., 874–838 mb., 277·5°A., 95–93%), *small isothermal*, (7·43 Kl., 380 mb., 243°A., 86%). Pressure distribution:—A low between Iceland and Ireland is moving north east, high over France and Spain. Type Va.

852. Weather b. Clouds Cu–Nb. and St–Cu. 2/10 from W at about 1·2 Kl. A–Cu. trace, from W'S. Pressure distribution:—A shallow region of low pressure having two centres extends north-east over the north of Scotland to Norway. High over the Azores, with a region of small gradients over France and Holland. Type III.

853. Weather cv. Clouds St–Cu. 5/10 from W at about 1 Kl., A–Cu. 4/10 from W'S, Ci–St. trace. *Inversion*, (2·09–2·55 Kl., 776–732 mb., 269·5–270°A.), *isothermal* on ascent, (4·85–5·10 Kl., 539–521 mb., 254°A.), *inversion*, (6·29–6·49 Kl., 441–429 mb., 244·3–244·8°A.). Pressure distribution:—Similar to No. 852; the low over Norway has deepened, and a tongue of high pressure has extended north-east across France. Type III.

854. Weather cloudy. Clouds St–Cu. and Cu–Nb. 8/10 from SW at about 1·2 Kl. Mean of both records of temperature employed except that a large rise at the extreme top was ignored. Pressure distribution:—The low region recently situated near the north of the British Isles has moved south-east and forms a trough extending north from Cornwall towards Norway, this sounding was made in the middle of the trough. High over the Atlantic south-west of Ireland. Type XIV.

855. Weather cloudy. Clouds St–Cu. 5/10 from N at about 1·5 Kl., Cirrus 3/10 from N. *Inversion*, (2·23–2·44 Kl., 771–750 mb., 270–271·5°A., 100–56%). Pressure distribution:—The trough across England has filled and high pressure has spread in from the south-west. A region of low pressure extends from Iceland to Lapland. Type Ia.

$T.$=Temperature in degrees absolute. $P.$=Pressure in millibars.

548. $L.$=Geopotential Level above M.S.L. in kiloleos (Kl.) $RH.$=Relative Humidity as percentage. **1931.**

No. of Sounding.	856.	857.	858.	859.	861.	862.	863.	866.
Date.	July 23.	Sept. 10.	Sept. 28.	Oct. 13.	Oct. 14.	Oct. 14.	Oct. 15.	Nov. 20.
Station.	Sealand.	Kew.	Kew.	Kew.	Sealand.	Sealand.	Sealand.	Sealand.
Start G.M.T.	18h. 12m.	11h. 15m.	15h. 40m.	9h. 23m.	7h. 12m.	17h. 42m.	6h. 50m.	17h. 10m.
L_t=Geopotential at Greatest Height ... (Kl.)	18·81	24·61	8·10	17·81	15·02	9·61	22·48	21·34
T_t=Corresponding Temperature ... ... (°A.)	227	237	242	223	210	230	224	215
P_t=Corresponding Pressure ... ... (mb.)	66	27	352	75	118	288	36	41
Place of Fall	Farnley, Otley, Yorks.	Grays, Essex.	Horley, Surrey.	Springfield, Essex.	Felindre, Knighton, Radnor.	Weston Rhyn, Oswestry, Salop.	Bwlchgwyn, Wrexham, Denbigh.	Black-morefoot Reservoir, Linthwaite, Yorks.
Distance ... ... (Km.)	116	44	35	63	98	35	18	87
Bearing. Degrees from N.	49	89	163	60	182	188	205	60
Geostrophic Wind— Speed ... ... (m/s.)	9	7	4	5	4	3	4	13
Degrees from N.	245	65	5	330	215	5	225	220
Wind (Anemograph)— Speed ... ... (m/s.)	2	2	1	1	4	2	Calm.	2
Degrees from N.	235	45	360	225	315	325	—	180
Humidity at surface ... ... (%)	66	65	67	88	84	87	99	92
Type of Tropopause	I.	I.	—	II.	I.	—	I.	I.
L_c=Geopotential at „ ... ... (Kl.)	11·66	10·67	—	11·18	12·51	—	13·28	11·71
T_c = Temp. at „ „ ... ... (°A.)	215	216	—	216	206	—	206	215
P_c=Pressure at „ „ ... ... (mb.)	202	230	—	217	178	—	159	192
Mean Temp. in Stratosphere (L_c+2) to (L_c+5) ... (°A.)	224	225	—	217	—	—	215	218
(L_c+5) to (L_c+8) ... (°A.)	—	225	—	—	—	—	219	217
(L_c+8) to (L_c+11) ... (°A.)	—	227	—	—	—	—	—	—
T_m (Mean Temp. 1 to 9 Km.) ... ... (°A.)	260	253	—	257	260	262	262	253
P_s (Pressure at M.S.L.) ... ... (mb.)	1013	1021	1021	1021	1035	1037	1038	1006

549. **1931.**

REMARKS ON THE SOUNDINGS AND THE PREVAILING WEATHER CONDITIONS, 1931.

No. of Sounding.

856. Weather cloudy. Clouds St. 6/10 from SW at about 1·4 Kl., A–St. 4/10. Mean of both records of temperature employed except at the extreme top where a rise of both of them was ignored. *Isothermal* on descent, (3·54—3·85 Kl., 650—625 mb., 266°A.), *isothermal,* (7·64—7·83 Kl., 372—362 mb., 243°A., 100—98%). Pressure distribution :—A low stationary to the south-east of Iceland, high over the Azores with a tongue extending north-east to the mouth of the Channel. A region of small gradients over France. Type Va.

857. Weather cz. Clouds A–Cu. 6/10 from SSW, Cirrus 1/10. A remarkably high sounding showing a very high temperature at the top which appears to be genuine. *Inversion,* (3·03—3·21 Kl., 695—679 mb., 264·0—264·4°A.). Pressure distribution :—High over the Atlantic to the west of Britain, low over Scandinavia and Spain, with a region of small gradients over Holland. Type IXa.

858. Weather cloudy. Clouds St–Cu. and A–Cu. 9/10. *Inversion,* (2·25—2·37 Kl., 771—759 mb., 273.—274·4°A, 94—79%), *isothermal,* (5·43—5·77 Kl., 510—487 mb., 257·4°A., 108—106%). Pressure distribution :—An anticyclone steadily covering Britain with centre a little south of Ireland. Type IXb.

859. Weather overcast. Clouds low stratus 10/10. *Inversion,* (2·32—2·46 Kl., 764—750 mb., 272·2—272·6°A.), *inversion,* (12·17—12·89 Kl., 185—165 mb., 216—218·7°A.). Pressure distribution :—High over Atlantic south-west of Ireland and over Russia. Shallow trough over France and the North Sea. Type XIa.

861. Weather cloudy. Clouds St–Cu. 5/10 from NW at about 0·6 Kl., A–Cu. and Ci. 3/10 from N'W. Mean of both records employed for temperature in the tables except between 1·1 and 1·8 Kl. where a large inversion occurred and the ascent only was used ; otherwise the two records of temperature agreed pretty well together. *Inversion* on descent, (1·12—1·31 Kl., 900—878 mb., 274—279·5°A.), *inversion* on ascent, (1·51—1·84 Kl., 856—822 mb., 271·5—275·5°A., 102—63%), *inversion,* (4·22—4·40 Kl., 606—592 mb., 267·6—267·8°A., 38—40%). Pressure distribution :—An anticyclone covering the British Isles with rising pressure, the centre being somewhat to the west of Ireland. Type X.

862. Weather bc. Clouds St–Cu. 2/10 from NW at about 0·7 Kl., Cirrus 2/10 from N'W. *Inversion,* (0·92—1·73 Kl., 925—835 mb., 277·7—280·2°A., 102—39%). Pressure distribution :—The same as in No. 861. The pressure is nearly steady and the centre of the anticyclone now over Ireland. Type XI.

863. Weather bcf. Clouds St–Cu 3/10 at about 0·7 Kl. *Inversion* near ground. *Inversion,* (5·20—5·44 Kl., 537—520 mb., 261·2—262·8°A., 83—69%). Pressure distribution :—The same as in No. 862, but the centre is now over central England. Type XI.

866. Weather om_0r_0. Clouds Nb. 7/10, St. 3/10 from S at about 0·4 Kl. The sounding was made into a mass of mist and raincloud and shows both on ascent and descent a state of pronounced supersaturation from levels of 0·5 Kl. or less up to 2·5 Kl. or more. *Inversion,* (5·54—5·88 Kl., 487—464 mb., 249·4—249·7°A., 53—51%). Sudden change of lapse rate at (11·22 Kl., 208 mb., 216°A.). Pressure distribution :—Deep low near Iceland with a trough extending south-eastwards over Ireland towards the Bay of Biscay. High over the Azores and very high over northern Russia. Type Va.

T.=Temperature in degrees absolute. *P.*=Pressure in millibars.

L.=Geopotential Level above M.S.L. in kiloleos (Kl.) *RH.*=Relative Humidity per cent.

No.	826.	827.	828.	830.	832.	833.	834.	836.
Date. Station.	Feb. 5. Sealand.	Feb. 7. Sealand.	Feb. 9. Sealand.	Feb. 11. Sealand.	Feb. 13. Sealand.	Feb. 14. Sealand.	Feb. 15. Kew.	Feb. 17. Kew.
Start. (G.M.T.)	17h. 25m.	7h. 35m.	7h. 40m.	7h. 30m.	7h. 35m.	7h. 25m.	7h. 25m.	17h. 30m.

550. GEOPOTENTIALS, TEMPERATURES AND RELATIVE HUMIDITIES CORRESPONDING WITH ISOBARIC SURFACES. 1931.

Pressure.	*L.*	*T.*	*RH.*	*L.*	*T.*	*RH.*	*L.*	*T.*	*RH.*	*L.*	*T.*	*L.*	*T.*	*L.*	*T.*	*RH.*	*L.*	*T.*	*L.*	*T.*	*RH.*
Millibars.	Kl.	°A 200 +	%	Kl.	°A 200 +	%	Kl.	°A 200 +	%	Kl.	°A 200 +	Kl.	°A 200 +	Kl.	°A 200 +	%	Kl.	°A 200 +	Kl.	°A 200 +	%
100	15·47	11	...	15·52	14	...	...	...	...	15·51	14	15·49	18	15·35	12	...	...	...	...	...	...
200	11·29	3	...	11·21	15	...	11·49	9	...	11·17	19	11·06	26	11·21	9	...	11·18	13	...	...	...
300	8·83	23	64	8·71	20	35	8·97	26	24	8·65	21	8·42	27	8·71	23	43	8·73	22	...	...	...
400	6·93	37	72	6·84	34	43	7·04	41	23	6·77	32	6·55	25	6·80	38	43	6·85	35	6·54	25	57
500	5·37	47	90	5·31	45	39	5·45	54	23	5·27	39	5·09	35	5·24	49	34	5·31	46	5·07	36	51
600	4·05	56	74	4·01	54	35	4·09	65	23	3·99	50	3·83	47	3·93	49	32	3·99	56	3·80	47	35
700	2·91	63	42	2·87	62	42	2·91	72	31	2·87	59	2·71	56	2·82	55	37	2·84	63	2·69	56	42
800	1·89	68	66	1·85	70	52	1·85	75	78	1·85	67	1·71	64	1·83	61	66	1·82	69	1·70	61	78
900	·98	72	100	·93	71	79	·92	80	97	·95	73	·81	70	·93	67	68	·91	73	·80	68	88
1000	·15	75	...	·11	...	...	·07	...	...	·11	...	...	...	·11	...	...	·07	...	...	...	...

551. PRESSURES, TEMPERATURES AND HUMIDITIES AT GIVEN GEOPOTENTIALS. 1931.

Geopotentials.	*P.*	*T.*	*RH.*	*P.*	*T.*	*RH.*	*P.*	*T.*	*RH.*	*P.*	*T.*	*P.*	*T.*	*P.*	*T.*	*RH.*	*P.*	*T.*	*P.*	*T.*	*RH.*
Kiloleos.	mb.	°A 200 +	%	mb.	°A 200 +	%	mb.	°A 200 +	%	mb.	°A 200 +	mb.	°A 200 +	mb.	°A 200 +	%	mb.	°A 200 +	mb.	°A 200 +	%
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	46	12	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	55	12	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	65	12	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	79	17	76	11	...	...	...	...	...	...
16	92	12	...	92	14	...	...	...	...	93	13	92	18	90	12	...	...	...	...	...	...
15	109	11	...	109	16	...	...	...	...	109	16	108	18	106	11	...	...	...	...	...	...
14	127	12	...	128	17	...	...	...	...	127	19	127	22	125	10	...	...	...	...	...	...
13	150	10	...	150	17	...	156	12	...	149	20	148	23	147	8	...	...	...	...	...	...
12	178	7	...	176	18	...	184	11	...	175	19	173	24	175	5	...	...	...	...	...	...
11	210	5	...	207	14	...	217	11	...	205	18	201	26	207	10	...	208	13	...	...	...
10	249	13	60	244	12	35	255	17	24	241	14	235	27	244	14	43	245	13	...	...	...
9	292	21	63	286	18	35	298	26	24	283	19	274	28	286	21	45	288	19	...	...	...
8	340	28	68	335	25	34	347	33	23	332	25	320	27	334	28	41	336	27	...	...	...
7	395	37	71	390	33	44	402	42	23	386	31	373	26	388	37	43	391	33	372	22	56
6	457	43	82	452	39	41	463	49	23	448	35	435	27	449	44	41	453	42	435	29	55
5	526	49	92	522	47	37	531	58	23	520	41	506	36	516	49	31	522	48	505	36	51
4	604	56	73	600	54	35	607	65	24	599	50	585	45	594	49	32	599	56	584	45	38
3	692	61	43	687	61	42	691	71	30	686	58	672	54	682	54	36	685	62	671	53	42
2·5	738	65	36	734	64	42	737	74	37	733	62	719	58	730	57	38	732	65	719	57	45
2	789	67	54	784	69	50	785	75	65	784	65	769	62	781	60	59	781	68	769	61	58
1·5	842	70	100	837	71	62	836	77	100	837	69	821	65	835	63	70	833	71	822	63	80
1	898	72	101	892	71	77	891	79	99	892	72	878	68	892	66	69	889	73	878	67	90
0·5	957	73	91	951	74	88	948	81	91	952	...	936	72	952	70	...	947	...	936	71	84
Ground.	1019	77	85	1013	74	96	1008	84	84	1013	78	996	76	1015	75	80	1009	74	997	75	81

Note.—The temperatures are derived from the original tabulations which are generally made to the nearest half-degree, and are shown to the nearest whole degree.

552. LAPSE RATE OF TEMPERATURE BETWEEN GIVEN GEOPOTENTIALS. 1931.

Degrees absolute per kiloleo.

Kiloleos.								
20 to 21	...	...	...	...	...	0	...	...
19 to 20	...	...	...	...	...	0	...	...
18 to 19	...	...	...	...	...	−1	...	...
17 to 18	...	...	...	...	1	1	...	...
16 to 17	...	...	...	...	...	...	...	...
15 to 16	−1	2	...	3	0	−1	...	...
14 to 15	1	0	...	3	4	−1	...	...
13 to 14	−2	1	...	1	1	−2	...	...
12 to 13	−3	1	−1	−1	1	−3	...	...
11 to 12	−2	−4	0	−1	2	5	...	...
10 to 11	8	−2	6	−4	1	4	0	...
9 to 10	8	6	8	5	1	7	7	...
8 to 9	7	7	7	6	−1	7	7	...
7 to 8	8	8	9	6	−1	9	7	...
6 to 7	7	6	8	4	1	7	9	7
5 to 6	6	8	8	6	9	5	6	7
4 to 5	7	7	7	9	9	−1	8	9
3 to 4	5	7	7	8	9	5	5	8
2·5 to 3	8	8	5	7	7	6	7	9
2 to 2·5	5	8	2	7	8	6	7	6
1·5 to 2	6	5	4	7	6	6	4	5
1 to 1·5	3	0	4	6	7	6	5	8
0·5 to 1	3	6	5	} 6	7	8	} 1	7
Gd. to 0·5	7	0	5		8	10		10

Note.—The lapse rates are derived from the original tabulations, which are generally made to the nearest half-degree.

T. = Temperature in degrees absolute. *P.* = Pressure in millibars.
L. = Geopotential Level above M.S.L. in kiloleos (Kl.) *RH.* = Relative Humidity per cent.

No.	838.	839.	840.	841.	842.	843.	844.	845.	846.
Date. Station.	Feb. 19. Sealand.	Feb. 20. Sealand.	Feb. 21. Sealand.	Feb. 23. Sealand.	Feb. 25 Sealand.	Feb. 27. Sealand.	Mar. 11. Sealand.	Apr. 9. Kew.	May 13. Kew.
Start. (G.M.T.)	17h. 30m.	17h. 30m.	17h. 30m.	17h. 35m.	17h. 50m.	17h. 30m.	17h. 40m.	15h. 15m.	13h. 38m.

550. GEOPOTENTIALS, TEMPERATURES AND RELATIVE HUMIDITIES CORRESPONDING WITH ISOBARIC SURFACES—*continued*. 1931.

Pressure.	*L.*	*T.*	*RH.*	*L.*	*T.*	*RH.*	*L.*	*T.*	*RH.*	*L.*	*T.*	*RH.*	*L.*	*T.*	*RH.*	*L.*	*T.*	*L.*	*T.*	*RH.*	*L.*	*T.*	*L.*	*T.*
Millibars.	Kl.	°A 200 +	%	Kl.	°A 200 +	%	Kl.	°A 200 +	%	Kl.	°A 200 +	%	Kl.	°A 200 +	%	Kl.	°A 200 +	Kl.	°A 200 +	%	Kl.	°A 200 +	Kl.	°A 200 +
100	15·59	13	…	…	…	…	15·59	23	…	…	…	…	15·79	12	…	…	…	15·47	19	…	…	…	…	…
200	11·33	10	…	11·29	11	…	11·13	26	41	11·33	16	…	11·53	10	…	11·19	19	11·11	18	…	…	…	…	…
300	8·83	24	78	8·77	25	66	8·51	24	47	8·84	21	66	9·02	25	36	8·69	17	8·61	17	…	…	…	…	…
400	6·91	39	78	6·85	38	68	6·66	27	46	6·94	39	64	7·10	40	36	6·82	34	6·75	32	…	…	…	…	…
500	5·35	48	73	5·29	50	63	5·17	37	45	5·38	49	60	5·51	54	45	5·28	47	5·25	42	…	…	…	…	…
600	4·03	57	54	3·96	59	60	3·91	46	49	4·06	55	49	4·16	63	77	3·96	56	3·95	51	…	4·17	64	4·17	66
700	2·88	65	100	2·80	64	52	2·80	55	58	2·92	59	95	2·98	71	93	2·81	63	2·82	60	67	2·99	69	2·98	73
800	1·85	69	80	1·78	70	102	1·81	63	68	1·92	66	79	1·93	76	100	1·79	68	1·81	64	66	1·95	75	1·93	79
900	·94	73	58	·86	74	92	·91	69	103	1·01	72	108	·99	82	95	·88	71	·92	68	79	1·01	80	·97	83
1000	·11	…	…	·02	80	…	·09	…	…	·17	…	…	·13	…	…	…	…	·09	…	…	·15	…	·11	…

551. PRESSURES, TEMPERATURES AND HUMIDITIES AT GIVEN GEOPOTENTIALS—*continued*. 1931.

Geopotentials.	*P.*	*T.*	*RH.*	*P.*	*T.*	*RH.*	*P.*	*T.*	*RH.*	*P.*	*T.*	*RH.*	*P.*	*T*	*RH.*	*P.*	*T.*	*P.*	*T.*	*RH.*	*P.*	*T.*	*P.*	*T.*
Kiloleos.	mb.	°A 200 +	%	mb.	°A 200 +	%	mb.	°A 200 +	%	mb.	°A 200 +	%	mb.	°A 200 +	%	mb.	°A 200 +	mb.	°A 200 +	%	mb.	°A 200 +	mb.	°A 200 +
21	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…
20	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…	…
19	…	…	…	…	…	…	58	18	…	…	…	…	59	13	…	…	…	…	…	…	…	…	…	…
18	…	…	…	…	…	…	68	19	…	…	…	…	70	12	…	…	…	…	…	…	…	…	…	…
17	79	12	…	…	…	…	80	19	…	…	…	…	82	14	…	…	…	…	…	…	…	…	…	…
16	93	12	…	…	…	…	94	21	…	…	…	…	97	12	…	…	…	92	18	…	…	…	…	…
15	110	14	…	…	…	…	110	23	…	…	…	…	114	13	…	…	…	108	19	…	…	…	…	…
14	129	15	…	129	16	…	128	23	…	…	…	…	134	16	…	…	…	126	21	…	…	…	…	…
13	152	16	…	152	15	…	150	25	…	…	…	…	157	14	…	…	…	148	18	…	…	…	…	…
12	179	14	…	179	15	…	175	25	…	180	18	…	185	13	…	…	…	174	18	…	…	…	…	…
11	211	10	…	210	12	…	204	26	41	211	13	…	219	10	37	206	18	203	18	…	…	…	…	…
10	249	15	77	247	17	63	238	25	42	249	12	64	257	17	36	242	15	239	14	…	…	…	…	…
9	291	22	78	289	23	65	278	26	45	293	20	65	301	25	36	285	15	281	15	…	…	…	…	…
8	340	30	79	337	29	67	325	23	47	342	29	67	351	33	36	334	23	330	21	…	…	…	…	…
7	395	38	78	391	37	69	379	25	46	397	38	64	406	41	36	389	32	385	29	…	…	…	…	…
6	456	45	76	452	45	67	442	31	45	458	45	59	468	50	40	451	41	447	36	…	…	…	…	…
5	525	50	70	520	51	61	513	38	45	527	51	57	536	58	55	520	50	517	44	…	…	…	…	…
4	602	57	54	597	58	60	592	46	46	605	55	49	613	64	75	597	56	596	51	…	613	64	614	67
3	689	64	100	682	63	51	682	53	57	693	59	93	699	71	93	682	62	684	59	68	699	69	699	73
2·5	736	67	101	728	65	67	730	57	58	741	62	88	744	73	102	729	65	730	62	58	745	72	745	75
2	785	68	85	778	69	105	780	61	65	792	66	77	794	75	100	778	67	780	64	52	794	75	793	79
1·5	837	71	69	830	72	104	834	65	79	845	69	97	845	79	98	831	69	834	63	93	846	77	843	79
1	893	72	56	884	74	90	890	68	103	901	72	109	899	82	95	886	71	891	68	80	901	80	898	82
0·5	952	…	…	942	76	90	948	72	89	960	…	…	956	84	89	944	72	950	72	…	959	83	954	…
Ground.	1013	77	78	1002	80	93	1010	77	75	1021	79	85	1015	85	77	1006	75	1011	77	69	1018	88	1013	91

Note.—The temperatures are derived from the original tabulations which are generally made to the nearest half-degree, and are shown to the nearest whole degree.

552. LAPSE RATE OF TEMPERATURE BETWEEN GIVEN GEOPOTENTIALS—*continued*. 1931.

Degrees absolute per kiloleo.

Kiloleos.	838	839	840	841	842	843	844	845	846
20 to 21	…	…	…	…	…	…	…	…	…
19 to 20	…	…	…	…	…	…	…	…	…
18 to 19	…	…	1	…	0	…	…	…	…
17 to 18	…	…	0	…	2	…	…	…	…
16 to 17	0	…	1	…	−2	…	…	…	…
15 to 16	1	…	3	…	1	…	1	…	…
14 to 15	2	…	−1	…	2	…	1	…	…
13 to 14	1	−1	2	…	−1	…	−3	…	…
12 to 13	−2	0	0	…	−1	…	0	…	…
11 to 12	−4	−3	2	−5	−3	…	0	…	…
10 to 11	6	5	−2	0	7	−3	−4	…	…
9 to 10	7	6	1	8	8	−1	1	…	…
8 to 9	8	6	−3	9	8	9	7	…	…
7 to 8	8	8	2	9	8	9	8	…	…
6 to 7	7	8	6	7	9	8	7	…	…
5 to 6	5	5	7	5	8	10	8	…	…
4 to 5	8	8	8	5	6	6	7	…	…
3 to 4	7	5	8	3	6	6	7	5	6
2·5 to 3	6	3	7	6	4	5	7	5	4
2 to 2·5	2	7	9	8	6	4	4	5	7
1·5 to 2	6	6	6	6	6	4	−1	5	1
1 to 1·5	3	4	7	7	7	4	8	6	7
0·5 to 1	} 5	6	8	} 7	4	3	9	6	} 9
Gd. to 0·5		7	10		3	6	9	10	

Note.—The lapse rates are derived from the original tabulations, which are generally made to the nearest half-degree.

T.=Temperature in degrees absolute. *P.*=Pressure in millibars.
L.=Geopotential Level above M.S.L. in kiloleos (Kl.) *RH.*=Relative Humidity per cent.

No.	847.	848.	849.	851.	852.	853.	854.	855.
Date. Station.	May 21. Kew.	June 10. Sealand.	June 11. Sealand.	June 16. Sealand.	June 17. Sealand.	June 18. Sealand.	June 19. Sealand.	June 20. Sealand.
Start. (G.M.T.)	18h. 00m.	17h. 45m.	7h. 15m.	6h. 45m.	18h. 15m.	6h. 50m.	6h. 30m.	6h. 38m.

550. GEOPOTENTIALS, TEMPERATURES AND RELATIVE HUMIDITIES CORRESPONDING WITH ISOBARIC SURFACES—*continued.* 1931.

Pressure.	*L.*	*T.*	*RH.*	*L.*	*T.*	*L.*	*T.*	*L.*	*T.*	*RH.*	*L.*	*T.*	*RH.*	*L.*	*T.*	*L.*	*T.*	*RH.*	*L.*	*T.*	*RH.*
Millibars.	Kl.	°A 200 +	%	Kl.	°A 200 +	Kl.	°A 200 +	Kl.	°A 200 +	%	Kl.	°A 200 +	%	Kl.	°A 200 +	Kl.	°A 200 +	%	Kl.	°A 200 +	%
100	16·07	24	...	16·08	23	16·15	24	16·05	25	...	...	...	...	...	...	15·96	27	...	...	...	...
200	11·59	24	...	11·61	25	11·69	20	11·63	17	...	...	...	...	11·59	32	11·41	30	...	...	...	...
300	8·99	27	26	8·99	30	9·07	31	9·05	31	69	...	...	...	8·92	29	8·75	27	37	9·09	31	49
400	7·05	43	26	7·04	43	7·11	45	7·07	45	84	...	...	...	6·97	42	6·87	35	40	7·12	45	42
500	5·45	56	34	5·45	54	5·50	56	5·47	57	103	...	...	...	5·40	51	5·33	47	38	5·53	55	27
600	4·10	61	70	4·09	64	4·14	65	4·09	65	97	4·05	57	55	4·07	60	4·01	59	42	4·16	64	30
700	2·93	69	107	2·91	72	2·95	73	2·91	71	98	2·89	65	62	2·89	68	2·84	66	92	2·98	71	38
800	1·88	75	110	1·85	77	1·89	79	1·87	75	97	1·87	71	86	1·86	71	1·81	72	89	1·94	71	99
900	·95	78	81	·91	83	·95	79	·93	78	90	·93	79	66	·93	78	·87	79	79	1·01	77	82
1000	·10	...	...	·04	90	·09	...	·07	...	...	·08	...	...	·08	...	·03	...	...	·17	...	...

551. PRESSURES, TEMPERATURES AND HUMIDITIES AT GIVEN GEOPOTENTIALS—*continued.* 1931.

Geopotentials.	*P.*	*T.*	*RH.*	*P.*	*T.*	*P.*	*T.*	*P.*	*T.*	*RH.*	*P.*	*T.*	*RH.*	*P.*	*T.*	*P.*	*T.*	*RH.*	*P.*	*T.*	*RH.*
Kiloleos.	mb.	°A 200 +	%	mb.	°A 200 +	mb.	°A 200 +	mb.	°A 200 +	%	mb.	°A 200 +	%	mb.	°A 200 +	mb.	°A 200 +	%	mb.	°A 200 +	%
21	47	27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	54	27	...	...	...	...	...	54	27	...	...	...	...	...	...	...	...	...	...	...	...
19	63	...	...	...	...	...	...	63	27	...	...	...	...	...	...	63	27	...	...	...	...
18	74	25	...	...	...	...	...	74	25	...	...	...	...	...	...	73	27	...	...	...	...
17	87	24	...	...	...	...	...	86	25	...	...	...	...	...	...	85	27	...	...	...	...
16	101	24	...	101	23	102	24	101	25	...	...	...	...	103	31	99	28	...	...	...	...
15	118	25	...	118	23	119	26	118	23	...	...	...	...	119	31	116	27	...	...	...	...
14	137	26	...	138	25	139	25	137	23	...	...	...	...	139	31	135	28	...	...	...	...
13	161	26	...	161	25	163	23	161	23	...	...	...	...	162	32	157	28	...	...	...	...
12	187	24	...	189	25	191	20	189	19	...	...	...	...	188	33	183	30	...	...	...	...
11	219	21	...	220	25	223	22	221	17	66	...	...	...	218	32	213	30	...	223	21	...
10	256	22	26	257	25	260	27	259	23	67	...	...	...	254	28	248	29	...	261	25	...
9	299	27	26	299	30	303	32	302	31	69	...	...	...	296	29	289	27	37	304	32	49
8	348	35	26	348	36	352	38	350	39	75	...	...	...	344	34	337	27	38	352	39	48
7	403	44	26	402	43	406	45	404	46	82	...	...	...	399	42	392	33	40	407	46	41
6	463	53	29	463	51	467	53	464	54	75	...	...	...	460	47	454	41	40	468	51	32
5	531	57	42	531	57	535	59	532	60	101	526	50	54	528	53	523	51	38	536	59	26
4	607	62	77	607	65	611	67	607	66	97	603	57	55	605	61	600	59	42	612	65	31
3	693	69	107	691	71	695	73	692	70	98	690	64	60	690	67	685	65	86	698	70	38
2·5	739	72	95	737	74	740	76	738	72	97	737	67	78	737	70	731	68	85	744	71	52
2	788	74	110	785	76	788	78	787	74	97	786	71	89	786	70	780	71	86	794	71	100
1·5	839	77	110	836	79	840	76	838	77	93	838	74	78	837	74	832	74	89	846	74	84
1	893	78	100	890	82	894	78	891	78	92	892	78	67	892	77	886	78	81	901	77	82
0·5	951	79	97	946	86	951	83	949	81	79	949	83	60	950	81	943	82	78	960	81	73
Ground.	1011	83	76	1004	91	1011	87	1009	87	79	1009	88	61	1009	86	1003	86	95	1020	85	74

Note.—The temperatures are derived from the original tabulations which are generally made to the nearest half-degree, and are shown to the nearest whole degree.

552. LAPSE RATE OF TEMPERATURE BETWEEN GIVEN GEOPOTENTIALS—*continued.* 1931.

Degrees absolute per kiloleo.

Kiloleos.	847	848	849	851	852	853	854	855
20 to 21	−1	...	...	...	...	...	...	...
19 to 20	−1	...	...	0	...	...	...	...
18 to 19	−1	...	...	−2	...	...	0	...
17 to 18	−1	...	...	−1	...	...	0	...
16 to 17	0	...	...	0	...	...	1	...
15 to 16	1	0	2	−2	...	−1	−1	...
14 to 15	1	2	−1	0	...	1	1	...
13 to 14	0	0	−2	0	...	0	1	...
12 to 13	−2	0	−3	−4	...	1	2	...
11 to 12	−3	0	2	−2	...	−1	−1	...
10 to 11	1	0	4	6	...	−4	−1	4
9 to 11	5	5	5	8	...	1	−2	7
8 to 9	8	6	6	9	...	5	1	7
7 to 8	9	7	8	6	...	8	6	7
6 to 7	8	8	7	8	...	5	8	5
5 to 6	5	6	7	6	...	7	9	8
4 to 5	5	8	7	6	7	7	8	6
3 to 4	7	7	6	4	7	7	7	5
2·5 to 3	6	5	6	3	7	5	6	2
2 to 2·5	6	4	5	6	6	1	5	−2
1·5 to 2	4	6	−5	5	7	7	7	7
1 to 1·5	3	6	4	1	9	7	8	6
0·5 to 1	2	8	9	7	8	7	8	7
Gd. to 0·5	8	10	10	11	11	10	6	9

T.=Temperature in degrees absolute. *P.*=Pressure in millibars.
L.=Geopotential level above M.S.L. in kiloleos (Kl.) *RH.*=Relative Humidity per cent.

No.	856.	857.	858.	859.	861.	862.	863.	866.
Date. Station.	July 23. Sealand.	Sept. 10. Kew.	Sept. 28. Kew.	Oct. 13. Kew.	Oct. 14. Sealand.	Oct. 14. Sealand.	Oct. 15. Sealand.	Nov. 20. Sealand.
Start. (G.M.T.)	18h. 12m.	11h. 15m.	15h. 40m.	9h. 23m.	7h. 12m.	17h. 42m.	6h. 50m.	17h. 10m.

550. GEOPOTENTIALS, TEMPERATURES AND RELATIVE HUMIDITIES CORRESPONDING WITH ISOBARIC SURFACES—*continued.* 1931.

Pressure.	*L.*	*T.*	*RH.*	*L.*	*T.*	*L.*	*T.*	*RH.*	*L.*	*T.*	*L.*	*T.*	*RH.*	*L.*	*T.*	*RH.*	*L.*	*T.*	*RH.*	*L.*	*T.*	*RH.*
Millibars.	Kl.	°A 200 +	%	Kl.	°A 200 +	Kl.	°A 200 +	%	Kl.	°A 200 +	Kl.	°A 200 +	%	Kl.	°A 200 +	%	Kl.	°A 200 +	%	Kl.	°A 200 +	%
100	16·13	23	...	16·01	25	...	...	...	16·00	19	...	...	...	...	...	...	16·08	13	...	15·79	19	...
200	11·71	15	...	11·55	23	...	...	...	11·67	17	11·82	9	...	...	...	...	11·91	12	...	11·46	16	...
300	9·11	33	...	8·97	27	...	...	...	9·11	29	9·27	30	50	9·33	32	54	9·35	31	40	8·88	29	49
400	7·13	46	98	7·04	41	7·19	47	89	7·15	44	7·29	47	56	7·35	47	57	7·37	48	39	6·93	44	50
500	5·52	57	90	5·47	51	5·57	57	112	5·55	55	5·67	58	54	5·73	59	72	5·74	62	53	5·34	50	55
600	4·15	65	89	4·13	59	4·21	67	86	4·19	64	4·30	68	39	4·35	68	70	4·36	67	62	4·01	60	63
700	2·97	72	85	2·97	65	3·01	72	59	3·01	70	3·11	73	38	3·14	75	81	3·16	76	67	2·85	66	106
800	1·91	77	63	1·94	71	1·96	73	87	1·96	75	2·05	76	44	2·08	79	51	2·09	81	62	1·82	71	113
900	·97	...	92	1·01	77	1·03	79	98	1·02	81	1·12	74	86	1·13	79	64	1·15	80	59	·89	76	116
1000	·11	...	...	·17	...	·17	...	...	·17	...	·28	...	...	·30	...	84	·30	...	100	·05	...	...

551. PRESSURES, TEMPERATURES AND HUMIDITIES AT GIVEN GEOPOTENTIALS—*continued.* 1931.

Geopotentials.	*P.*	*T.*	*RH.*	*P.*	*T.*	*P.*	*T.*	*RH.*	*P.*	*T.*	*P.*	*T.*	*RH.*	*P.*	*T.*	*RH.*	*P.*	*T.*	*RH.*	*P.*	*T.*	*RH.*
Kiloleos.	mb.	°A 200 +	%	mb.	°A 200 +	mb.	°A 200 +	%	mb.	°A 200 +	mb.	°A 200 +	%	mb.	°A 200 +	%	mb.	°A 200 +	%	mb.	°A 200 +	%
24	...	...	...	29	36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	34	33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	40	30	...	...	...	...	...	...	...	...	...	...	...	39	22	...	...	...	...
21	...	...	...	46	29	...	...	...	...	...	...	...	...	...	...	...	45	21	...	43	15	...
20	...	...	...	54	28	...	...	...	...	...	...	...	...	...	...	...	53	19	...	51	16	...
19	...	...	...	63	26	...	...	...	...	...	...	...	...	...	...	...	62	18	...	60	17	...
18	75	26	...	73	25	...	...	...	...	...	...	...	...	...	...	...	73	17	...	70	16	...
17	87	24	...	86	25	...	...	...	85	19	...	...	...	...	...	...	86	16	...	82	18	...
16	102	23	...	100	25	...	...	...	100	19	...	...	...	...	...	...	101	13	...	97	19	...
15	119	24	...	117	25	...	...	...	117	17	118	10	...	...	...	...	119	10	...	113	18	...
14	139	24	...	137	25	...	...	...	138	16	139	6	...	...	...	...	141	9	...	133	18	...
13	163	23	...	160	25	...	...	...	162	19	164	7	...	...	...	...	167	6	...	156	18	...
12	191	15	...	187	25	...	...	...	190	16	194	8	...	...	...	...	197	11	...	183	16	...
11	224	19	...	218	20	...	...	...	223	16	228	16	...	...	...	...	231	17	...	215	17	49
10	262	27	...	256	20	...	...	...	261	23	267	24	49	...	...	...	271	25	41	252	21	50
9	305	34	90	299	27	...	...	...	305	30	312	32	50	315	34	56	316	34	40	295	29	49
8	353	42	96	348	34	357	42	90	354	38	361	41	53	365	43	60	366	42	39	342	35	49
7	407	47	97	403	41	412	49	89	409	45	416	49	57	420	50	52	421	51	38	396	44	50
6	468	53	92	464	48	473	56	99	470	52	478	55	56	482	58	71	482	60	45	456	49	50
5	536	60	86	533	54	540	61	93	539	59	547	64	47	551	65	70	551	62	72	524	52	58
4	612	67	85	610	61	616	68	75	615	65	623	69	37	627	70	73	628	69	68	600	60	63
3	697	72	86	697	64	701	72	59	700	70	709	73	38	712	75	79	714	76	66	686	65	92
2·5	742	75	68	744	68	747	74	57	746	73	755	75	39	758	77	73	760	79	64	732	67	113
2	791	77	58	795	70	796	73	89	796	74	805	76	45	808	79	47	809	81	61	781	70	112
1·5	842	79	95	846	74	848	77	89	847	78	857	71	103	860	79	45	861	81	59	832	73	114
1	896	...	94	902	77	903	79	98	903	81	913	75	80	916	78	86	916	80	65	887	76	115
0·5	953	...	...	960	81	961	83	83	961	83	973	...	...	975	81	87	975	—	96	945	78	117
Ground.	1012	91	66	1020	85	1021	88	67	1020	87	1034	84	84	1036	83	87	1037	76	99	1006	82	92

Note.—The temperatures are derived from the original tabulations which are generally made to the nearest half-degree, and are shown to the nearest whole degree.

552. LAPSE RATE OF TEMPERATURE BETWEEN GIVEN GEOPOTENTIALS—*continued.* 1931.

Degrees absolute per kiloleo.

Kiloleos.	856	857	858	859	861	862	863	866
20 to 21	...	−1	...	...	...	...	−2	1
19 to 20	...	−2	...	...	...	...	−1	0
18 to 19	...	−1	...	...	...	...	−1	−1
17 to 18	−2	0	...	...	...	...	−1	2
16 to 17	−1	0	...	0	...	...	−3	1
15 to 16	1	0	...	−2	...	...	−3	−1
14 to 15	0	0	...	−1	−4	...	−1	0
13 to 14	−1	0	...	2	1	...	−3	0
12 to 13	−8	0	...	−2	1	...	5	−2
11 to 12	4	−5	...	0	8	...	6	1
10 to 11	7	0	...	7	8	...	8	4
9 to 10	7	7	...	7	8	...	9	8
8 to 9	8	8	...	8	9	9	8	6
7 to 8	5	7	7	7	8	7	9	8
6 to 7	6	7	7	7	6	8	9	6
5 to 6	7	6	5	7	9	7	2	3
4 to 5	7	7	7	6	5	5	7	8
3 to 4	5	4	4	5	5	5	7	5
2·5 to 3	7	6	3	4	2	4	4	3
2 to 2·5	3	6	−2	4	2	5	5	6
1·5 to 2	3	6	7	7	−8	−1	−1	6
1 to 1·5		7	5	6	7	−2	−1	6
0·5 to 1	8	9	8	3	9	6	4	6
Gd. to 0·5		8	11	8		3		7

Note.—The lapse rates are derived from the original tabulations, which are generally made to the nearest half-degree.

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