M.O. Form 2373

# THE DAILY WEATHER REPORT

BRITISH SECTION

## 1st October to 31st December

## 1931.

AIR MINISTRY, METEOROLOGICAL OFFICE, LONDON. W.C.2.

# INTRODUCTION

The Daily Weather Report has been issued in three sections since April 1, 1919. The section of which this forms the Introduction is known as the " British Section."

## NOTES REGARDING THE BRITISH SECTION.

**Description of each issue** :—The British section is issued daily by 12.30 p.m. (except that Sunday's issue is printed on Monday) and contains—

(*a*) On pp. 1 and 4 two tables of observations taken generally at 13h. and 18h. G.M.T. of " yesterday," and at 1h. and 7h. G.M.T. of " to-day " from about 45 stations in the British Isles, which regularly report to the Meteorological Office, and of the weather in the intervening intervals. These observations are telegraphed in a figure and letter code. The stations are arranged according to Forecast Districts as described at the foot of p. 2 of the report, and also on p. 4 of this Introduction. Whenever it is possible to do so without occupying too much space, the decoded values are set out in full in the table ; in other cases, code figures are entered ; these are interpreted by reference first to the number printed at the head of the column, and then to the Explanation printed at the foot of pp. 1 and 4, where the column numbers are shown in connexion with each of the separate classes of observation.

(*b*) Observations made at nine London Stations during the 24 hours ending 7h. or 9h.

(*c*) Table of atmospheric pollution for " yesterday " for South Kensington and Kew Observatory.

(*d*) Observations for " yesterday evening " and " this morning " from five capital cities on the Continent of Europe.

(*e*) On p. 2, a table of weather reports from British health resorts for the previous day, arranged under forecast districts.

(*f*) A weather chart (scale 1 : 10,000,000) for the British Isles and the neighbouring parts of the Continent and of the Atlantic. An explanation of the chart is printed below it.

(*g*) A " general inference " drawn up by the forecaster from all the weather charts available. This inference sets out the meteorological changes in progress and the deductions to be drawn from them.

(*h*) Weather forecasts for the 24 hours commencing 12 noon of the day of issue for 20 districts into which the British Isles are divided.

(*i*) A " further outlook," i.e. an indication of the changes to be expected after the expiry of the term of the forecasts, if the meteorological conditions are such as to warrant the issue of such an extension.

(*j*) On p. 3, a weather chart for the greater part of the Northern Hemisphere, including the whole of Europe, part of N. Africa, the Northern part of the N. Atlantic, N. America and usually a part of Russia in Asia.

The observations presented on this chart are not synchronous. Those for most of Europe (excluding Russia) and neighbouring countries refer to 7h. G.M.T., exceptions being :—Bulgaria (5h. G.M.T.) Austria, Hungary, Greece, Turkey, Egypt, Sudan, Cyprus, Palestine, Syria (6h. G.M.T.) Azores (8h. G.M.T.). The Greenland observations shown are made at 0h. G.M.T. with the exception of these for Mygbugten, which are for 7h. G.M.T., while those for North America are made at 1h. G.M.T.

In the case of ships at sea, the hour of observation for vessels east of 40° W. is 6h. G.M.T. while that for vessels west of 40° W. is 0h. G.M.T.

Thus, within each of the two sectors 40° W. to 170° W. and 30° E. to 40° W., the observations are approximately synchronous among themselves though most of those in the western sector refer to an epoch 6 hours earlier than do most of those in the eastern sector.

The observations shown for Russia and Siberia are especially to be noted from this standpoint of time. They are made at 7h. *local time* which implies that the absolute time to which they refer varies over a wide range, viz. ; from 5h. G.M.T. in the longitude of Leningrad (35° E.) to 19h. G.M.T. of the *previous day* in longitude 180° E.

The map on the following page shows graphically the hours of observation over the various parts of the weather chart for the Northern Hemisphere.

**Wind** :—The force of the wind is indicated in each issue of the Report by figures on the Beaufort Scale. The equivalents between numbers of the Beaufort Scale and the indications of an anemometer when exposed at a height of 30 to 40 feet above the ground are set out at the foot of p. 2 of each issue. Stations where such anemometers are installed determine their Beaufort numbers from their anemometers by the use of this table. At stations where anemometers are not in use, the force of the wind is estimated by means of the specification set out below. All wind directions are " true " or geographical, as distinguished from " magnetic."

**Gale warnings** :—A note regarding the meaning of gale warnings and the method of indicating in the Report to what districts warnings may have been issued is also shown below.

### The International and Upper Air Sections.

The other two sections of the Daily Weather Report are Royal quarto in size.

The International Section contains 4 pp. per day and is issued daily by 3.30 p.m., but the issues for Saturday and Sunday are made on Monday. The " International Section" contains information received from the Continent of Europe, the Mediterranean Basin, Iceland and the Azores, and from ships on the Atlantic, arranged as follows :—

(*a*) Two weather maps (Scale 1 : 20,000,000) for Europe, the Mediterranean and Eastern Atlantic for 18h. yesterday and 7h. to-day.

(*b*) Two inset maps (Scale 1 : 20,000,000) for Northwest Europe for 13h. yesterday and 1h. to-day.

(*c*) Table of meteorological observations taken at about 80 stations, mostly on the Continent of Europe (not for the British Isles).

(*d*) Table of meteorological observations received by Wireless Telegraphy from Ships on the Northern Atlantic.

This section is very useful to one who wishes to trace the passage of various weather systems, since the 4 charts for each 24 hours enable the reader to follow the course of events in detail.

**Upper Air Section** :—The third section, called the " Upper Air Section " consists of 2 pp. Royal quarto per day and is issued in the same manner as the International Section. It contains maps, diagrams and tables showing upper air currents and upper air temperatures over the British Isles and on the Continent of Europe ; and the cloud forms observed at different heights over the British Isles.

## THE BEAUFORT SCALE OF WIND FORCE.

| Beaufort Number. | Admiral Beaufort's General Description of Wind. | Specification for use on Land, based on observations made at British Land Stations. | Limits of Mean Velocities Statute Miles per Hour as recorded by well exposed anemometers about 40 feet above ground. |
|---|---|---|---|
| 0 | Calm ... ... | Calm ; smoke rising vertically ... ... ... ... ... | Less than 1 |
| 1 | Light air ... | Direction of wind shown by smoke drift ... ... ... ... | 1–3 |
| 2 | Slight breeze ... | Wind felt on face ; leaves rustle ... ... ... ... ... | 4–7 |
| 3 | Gentle breeze ... | Leaves and small twigs in constant motion ; wind extends light flag ... ... ... ... ... ... ... ... | 8–12 |
| 4 | Moderate breeze | Raises dust and loose paper ; small branches are moved ... | 13–18 |
| 5 | Fresh breeze ... | Small trees in leaf begin to sway ; crested wavelets on inland waters... ... ... ... ... ... ... ... ... | 19–24 |
| 6 | Strong breeze ... | Large branches in motion ; whistling heard in telegraph wires | 25–31 |
| 7 | Moderate gale ... | Whole trees in motion ; inconvenience felt when walking against wind ... ... ... ... ... ... ... | 32–38 |
| 8 | Fresh gale ... | Breaks twigs off trees ; generally impedes progress ... ... | 39–46 |
| 9 | Strong gale ... | Slight structural damage occurs (chimney pots and slates removed) ... ... ... ... ... ... ... ... | 47–54 |
| 10 | Whole gale ... | Seldom experienced inland ; trees uprooted ... ... ... | 55–63 |
| 11 | Storm ... ... | Very rarely experienced ; accompanied by widespread damage | 64–75 |
| 12 | Hurricane ... | ... ... ... ... ... ... ... ... ... ... | Above 75 |

## GALE WARNINGS.

The Meteorological Office issues warnings to ports and fishing stations of gales on or near the coasts of the British Isles. When one of these notices has been received at a station a black canvas cone is hoisted. The Signals remain hoisted after the receipt of a warning telegram until danger of a gale is passed.

The *North Cone* (point upwards) is hoisted for gales commencing from a Northerly point.

For gales commencing from East or West the North Cone will be hoisted if the gale is expected to change to a Northerly direction.

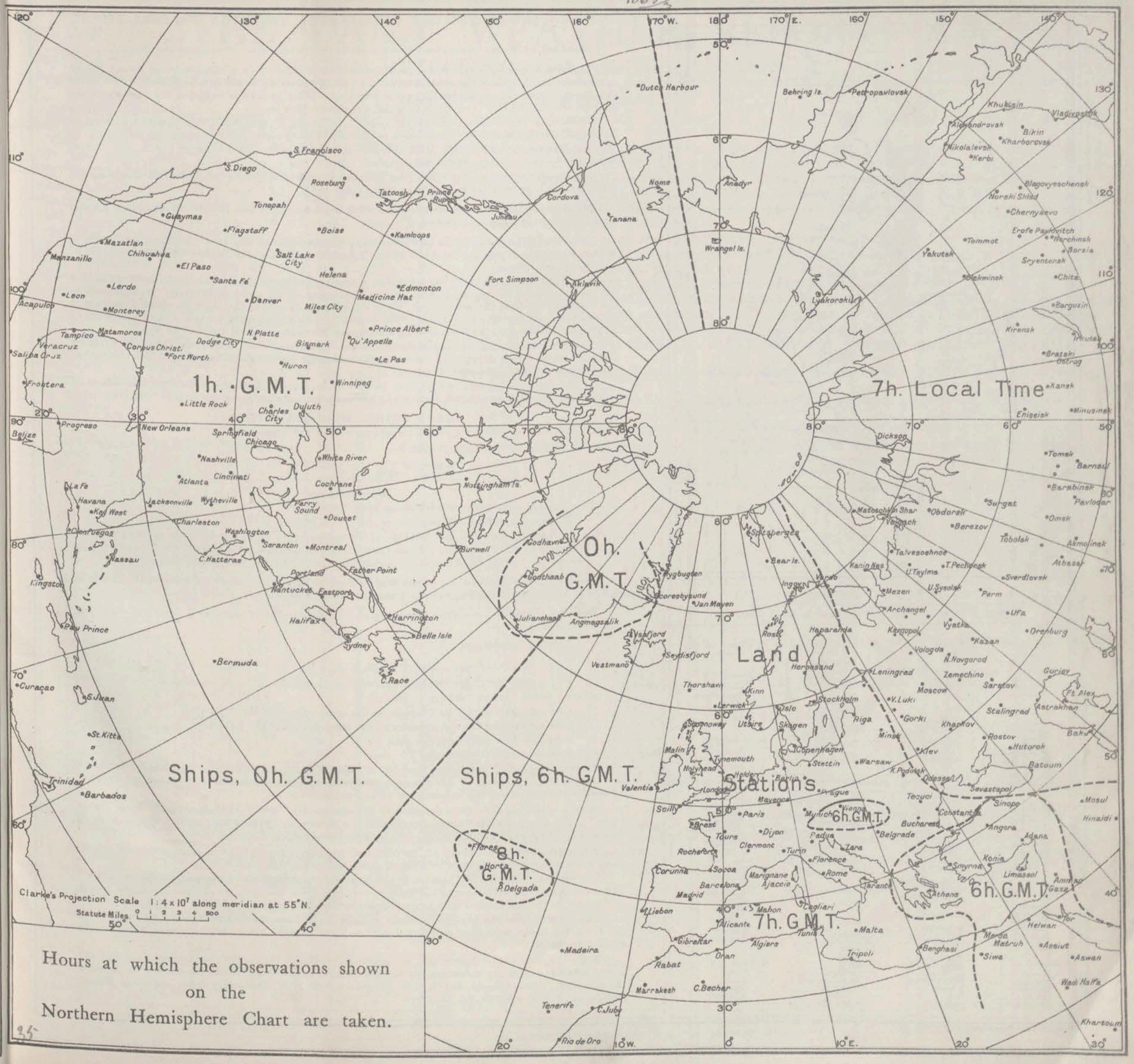
The *South Cone* (point downwards) is hoisted for gales commencing from a Southerly point. Such gales often veer, sometimes as far as Northwest.

For gales commencing from East or West the South Cone will be hoisted if the gale is expected to change to a Southerly direction.

The districts to which warnings are sent are shown in the Report by the following symbols written on page 2 against the forecast districts to which they apply :—

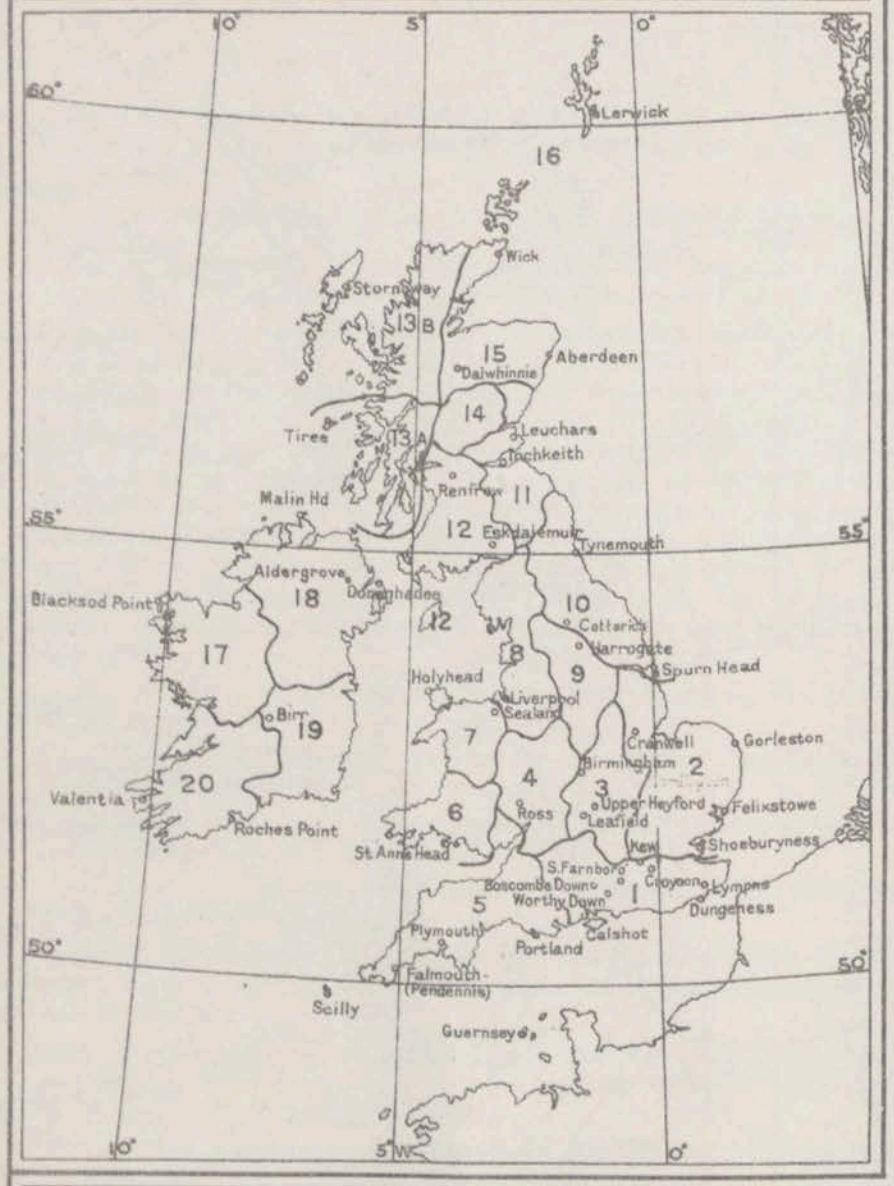
▲ North Cone hoisted : ▼ South Cone hoisted :

The time or times of issue of the gale warning telegrams is shown below the "further outlook" on page 2 of the Report.




Hours at which the observations shown on the Northern Hemisphere Chart are taken.

## FORECAST DISTRICTS AND BRITISH STATIONS




## FORECAST DISTRICTS

### and the Counties comprised within them.

1. *England, S.E.*
   Kent.
   Sussex.
   Surrey.
   Hampshire.
   Berkshire.
   Wiltshire.

2. *England, E.*
   Essex.
   Middlesex.
   Hertford.
   Bedford.
   Huntingdon.
   Cambridge.
   Suffolk.
   Norfolk.
   Lincoln.

3. *Midlands, E.*
   Buckingham.
   Oxford.
   Northampton.
   Warwick.
   Leicester.
   Rutland.
   Nottingham.

4. *Midlands, W.*
   Gloucester.
   Hereford.
   Worcester.
   Shropshire.
   Stafford.

5. *England, S.W.*
   Dorset.
   Somerset.
   Monmouth.
   Devon.
   Cornwall.

6. *Wales, S.*
   Glamorgan.
   Brecknock.
   Carmarthen.
   Pembroke.
   Cardigan.
   Radnor.

7. *Wales, N.*
   Montgomery.
   Merioneth.
   Flint.
   Denbigh.
   Carnarvon.
   Anglesey.

8. *England, N.W.*
   Cheshire.
   Lancashire.
   Westmorland.
   Cumberland.

9. *Midlands, N.*
   Derby.
   Yorkshire, W.

10. *England, N.E.*
    Yorkshire, N. & E.
    Durham.
    Northumberland.

11. *Scotland, S.E.*
    Roxburgh.
    Selkirk.
    Peebles.
    Berwick.
    Haddington.
    Edinburgh.
    Linlithgow.
    Clackmannan.
    Kinross.
    Fife.
    Forfar.

12. *Scotland, S.W., and Isle of Man.*
    Isle of Man.
    Dumfries.
    Kirkcudbright.
    Wigtown.
    Ayr.
    Lanark.
    Renfrew.
    Dumbarton.
    Stirling.

13A. *Scotland, W.*
    Argyll.
    Bute.

13B. *Scotland, N.W.*
    Hebrides.
    Western parts of Inverness, Ross and Cromarty, Sutherland.
    (Boundary line runs from Rannoch Station through Fort Augustus, Beauly and Lairg to Melvich).

14. *Mid. Scotland.*
    Perth.

15. *Scotland, N.E.*
    Kincardine.
    Aberdeen.
    Banff.
    Elgin.
    Nairn.
    Caithness.
    Eastern parts of Inverness, Ross, Sutherland.

16. *Orkneys and Shetlands.*

17. *Ireland, N.W.*
    Galway.
    Roscommon.
    Mayo.
    Sligo.
    Leitrim.

18. *Ireland, N.E.*
    Meath.
    West Meath.
    Longford.
    Cavan.
    Fermanagh.
    Monaghan.
    Louth.
    Armagh.
    Down.
    Antrim.
    Londonderry.
    Tyrone.
    Donegal.

19. *Ireland, S.E.*
    Waterford.
    Wexford.
    Kilkenny.
    Carlow.
    Wicklow.
    Offaly.
    Leix.
    Kildare.
    Dublin.

20. *Ireland, S.W.*
    Cork.
    Kerry.
    Limerick.
    Tipperary.
    Clare.

H.M. Stationery Office Press Kingsway W.C.2.

## NOTES ON THE INFORMATION CONTAINED IN THE DAILY WEATHER REPORT.

**Standard of Time.**—Greenwich Mean Time is exclusively used throughout the Report.

**Stations.**—*Kew.*—Temperature readings at Kew are taken in a large louvred screen placed against the north wall of the observatory. The thermometer bulbs are at a height of 10 feet above the ground immediately surrounding the building. This ground is raised a few feet above the general level of the Old Deer Park in which the observatory stands.

*Valentia.*—The observations at 1h. G.M.T. are taken at the Post Office Wireless Station on Valentia Island, those at all other hours at the Observatory near Cahirciveen on the mainland.

*Dalwhinnie.*—Observations from this station commenced on 1st January, 1931. The instruments are 1,176 feet above Mean Sea Level.

*Nairn.*—Telegraphic reports from Nairn at synoptic hours of observation ceased on 31st December, 1930, after having been taken since 1867.

**Heights of Stations.**—The heights of British Stations above M.S.L. refer to the plot of ground on which the rain gauge is situated.

**Pressure.**—The distribution of barometric pressure at Mean Sea Level is shown by means of isobars which are drawn for intervals of 2 millibars on page 2 of the Report and for intervals of 4 millibars on Page 3.

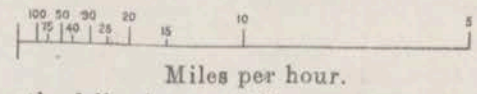
The wind at a height of 1,500-2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the upper wind is about 12 m.p.h. in latitude 55°, with a temperatnre of 50° F. and a pressure of 1,015 mb; if, however, the isobars are ½ inch apart the corresponding speed is 24 m.p.h.

The scale below can be used to determine the theoretical wind as deduced from the pressure distribution on either chart. On the assumption that the path of the air is straight this theoretical wind is called the Geostrophic Wind.

If the distance between consecutive isobars is measured along the scale from the left-hand extremity the geostrophic wind is shown by the scale in miles per hour.

**GEOSTROPHIC WIND SCALE FOR**

8 mb isobars on $1 : 4 \times 10^7$ Charts.
or 2 mb ,, ,, $1 : 10^7$ ,,




Miles per hour.

This scale applies under the following conditions:—

Pressure, 1,015 mb. Temperature, 50° F. Latitude, 55°.

Corrections.—For an increase of 10 mb pressure, subtract 1% from velocity; for an increase of 10° F. add 2%. From Latitude 55° to Latitude 65° subtract 1% for each degree *above* 55°. From Latitude 55° to Latitude 45° add 1½% for each degree *below* 55°.

**Temperature.**—Temperature is specified in degrees Fahrenheit, and is shown on the charts by means of figures written alongside the positions of the stations.

**Relative Humidity.**—Relative Humidity at British stations is calculated from the following hygrometric formulæ:—

$$\text{Relative humidity} = \frac{100x}{F}.$$

$x = f - \cdot 444\,(t - t')$ for wet bulb readings above 32° F.

$x = f - \cdot 400\,(t - t')$ for wet bulb readings below 32° F.

where $x$ is the vapour pressure in mb.;

$F$ the saturation vapour pressure at the temperature of the dry bulb;

$f$ the saturation vapour pressure at the temperature of the wet bulb;

$t$ the dry bulb temperature; and

$t'$ the wet bulb temperature.

The values printed in columns 7 and 21 always end with the figure 5. By this it should be understood that a value of 95, for example, stands for any one of the values 90 to 100; a value of 85 stands for any one of the values 80 to 89 and so on.

**Wind.**—All wind directions specified in the reports are "true," as distinguished from "magnetic." The arrows indicating wind direction are drawn to fly with the wind. The number of feathers on the arrows denotes wind force by Beaufort number.

**Adjusted Readings.**—Where an instrumental reading is found to be in error and some adjustment is necessary, such adjusted reading is published in brackets thus (59).

The entries in the British Section of the Report for the stations in the main tables on pages 1 and 4 are compared with those in the returns received from the stations at the end of the month and errors in the Report so found are noted in the monthly correction sheets.

The reports from the London Stations on page 1 and from the Health Resorts on page 2 are not subjected to the same close scrutiny, but if any errors are found these are also noted in the correction sheets.

*N.B.—Readers of the Report who are unacquainted with the method of construction and the use of weather charts are recommended to read "The Weather Map: An Introduction to Modern Meteorolovy," (2nd Edition, 1930), to be purchased from H.M. Stationery Office, Adastral House, Kingsway, W.C.2, price 3s. 2d. post free.*

AIR MINISTRY.

# THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

MONTHLY SUPPLEMENT,

DECEMBER, 1931. No. 180



## Notes on the Weather of the Month.

Apart from two rather cold spells from about the 16th - 23rd and again from the 29th - 31st, December was exceptionally mild, and, in spite of these colder periods, mean temperature for the month was well above the normal. The month was also very dry and in many parts dull.

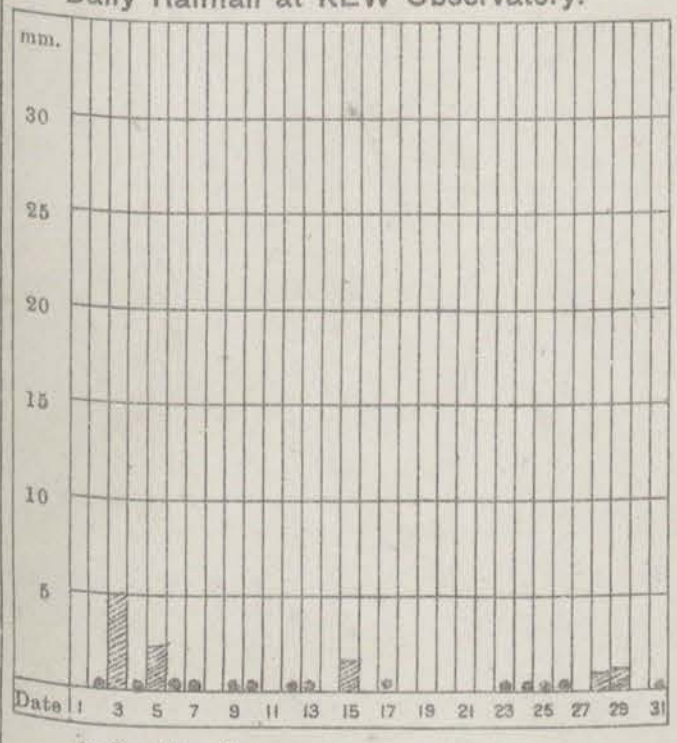
On the first the western section of a large continental anticyclone lay over England causing widespread fog, while a depression on the Atlantic moved northeast and affected our northwest districts. Subsequently the anticyclone was displaced eastward and depressions moved east or northeast off the north of Scotland. Strong winds and gales occurred in the western half of the country on the night of the 2nd to 3rd. and extended to all districts by the 4th. Weather was unsettled with rain, heavy locally at times, particularly in parts of Ireland and Western and Northern Scotland. Thunderstorms occurred in Lincolnshire on the 3rd and at Eskdalemuir on the 5th. Temperature began to rise in England on the 2nd. and on the 4th. the maximum reached 60°F. at many places. At Kew the maximum 60°F. was a record for December and at Ross-on-Wye, 59°F. was highest December temperature for over 70 years. On the 7th a wedge of high pressure crossed England giving a very sunny day, many places recording between 6 and 7 hours.

By the 10th or 11th. weather had become more definitely anticyclonic but it continued mild with air coming up from the neightbourhood of the Azores. On the 14th. a deep depression west of Iceland moved eastward and the anticyclone was pushed southward. In the rear of the depression a new high moved south from Iceland and a period of colder, anticyclonic weather prevailed for the next week. Considerable fog occurred from the 17th to 20th, and on the 18th., some low maxima were recorded e.g. 27°F. at Ross-on-Wye, 32°F. at Croydon, 33°F. at Kew and 34°F. at Shoeburyness.

Subsequently the anticyclone moved to France and Germany and these Islands again became under the influence of warm maritime air. The Christmas season was very mild. On the 24th., temperature rose to 61°F. at Aberdeen, the highest ever registered there in December.

On the 28th cold air in the rear of a depression which crossed the Faeroes to Scandinavia swept over the country. Snow and sleet were experienced in most parts of Great Britain, particularly on the high land in Scotland.

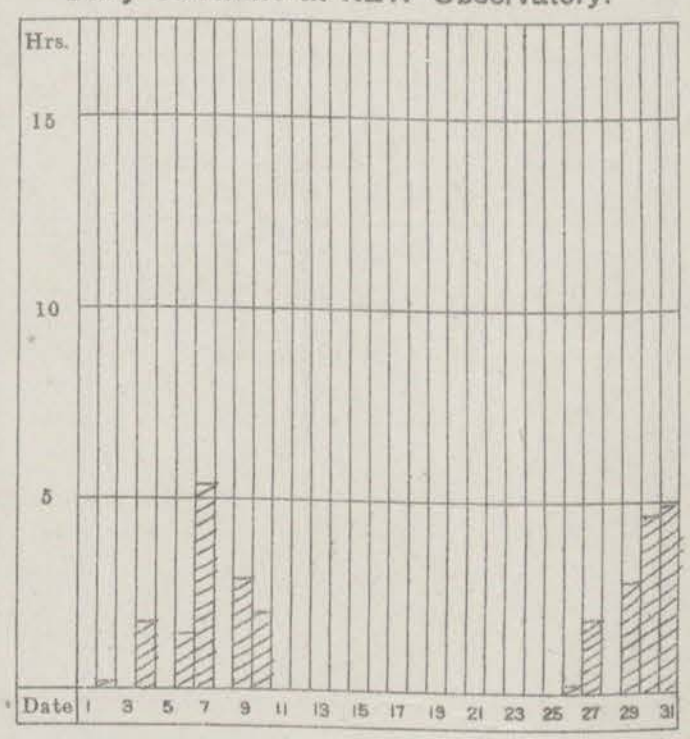
### Daily Rainfall at KEW Observatory.




•=Less than 0·5 mm.

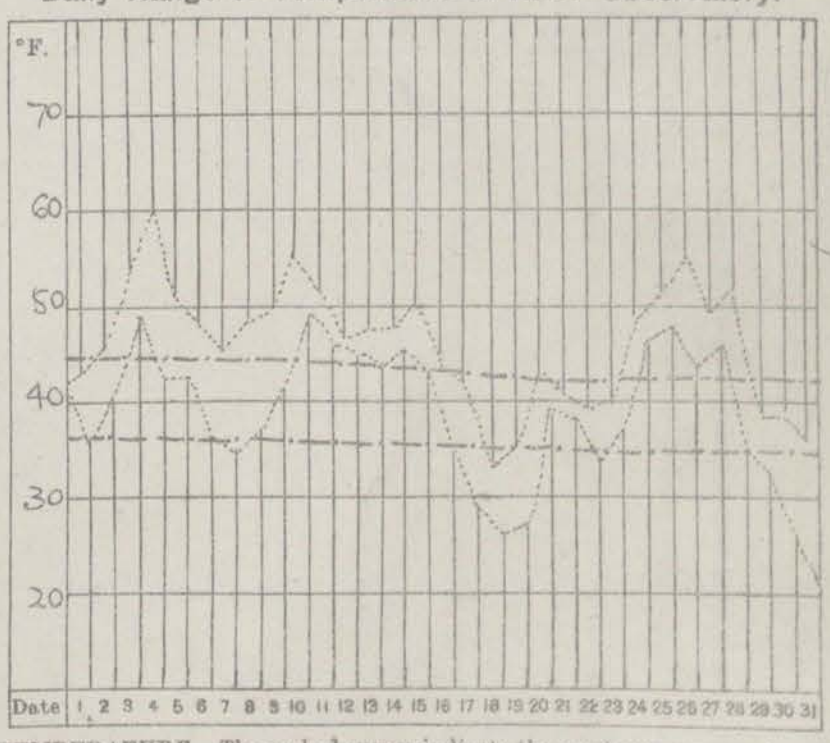
**RAINFALL. Total for Month. 14 mm.**

### Daily Sunshine at KEW Observatory.




**SUNSHINE. Total for Month. 29 hrs.**

### Daily Range of Temperature at KEW Observatory.




TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

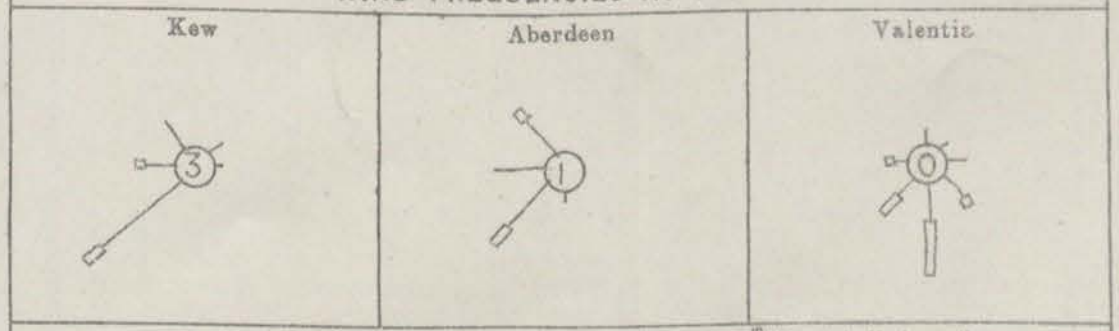
### MEAN VALUES FOR THE MONTH.*

| STATIONS. | PRESSURE Mean | PRESSURE Difference from average | TEMPERATURE Mean | TEMPERATURE Difference from average |
|---|---|---|---|---|
| | mb. | mb. | °F. | °F. |
| Kew | 1026.2 | +12.5 | 42.5 | +2.1 |
| Aberdeen | 1017.0 | +10.1 | 41.8 | +3.2 |
| Valentia | 1025.2 | +14.5 | 48.4 | +2.8 |

* Pressure — mean for the 24 hours.

Temperature — mean of Max. and Min.

### WIND FREQUENCIES AT 7 hr.




Forces 1-3 ——— ; forces 4-7 ═══ ; force 8 or above ▬▬▬ . Scale : 10mm. to 10 observations.

The figure in the centre of the circle gives the number of calms.

### "RUN" of WIND, or total displacement of air relative to the anemographs.

| | miles. |
|---|---|
| Kew ... | 5,532 |
| Aberdeen ... | 6,361 |
| Lerwick ... | 16,365 |
| Valentia .. | 3,705 |

# SUMMARY OF RECORDS OF TEMPERATURE, LOW CLOUD, VISIBILITY,

| | Stations. | †Temperature. Number of daily readings within fixed limits. Maximum. 32 or below | 33 – 41 | 42 – 50 | 51 – 59 | 60 – 68 | Normal Max. °F. | Minimum. 23 or below | 24 – 32 | 33 – 41 | 42 – 50 | 51 – 59 | Normal Min. °F. | Extremes—Warmest and Coldest. Days. Highest Max. °F. | Date. | Lowest Max. °F. | Date. | Nights. Highest Min. °F. | Date. | Lowest Min. °F. | Date. | Number of Ground Frosts. | Low Cloud. Number of observations within fixed limits. 7 h. Below 1,000 ft. | 1,000–5,000 ft. | 5,000–8,000 ft. | 13 h. Below 1,000 ft. | 1,000–5,000 ft. | 5,000–8,000 ft. | 18 h. Below 1,000 ft. | 1,000–5,000 ft. | 5,000–8,000 ft. | Fog, Mist and Good Visibility. Number of observations within fixed limits. 7 h. Dense fog. | Thick fog. | Fog. | Mist. | Good Visibility. | 13 h. Dense fog. | Thick fog. | Fog. | Mist. | Good Visibility. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London ... (Kew Obsy.) | 0 | 8 | 15 | 7 | 1 | 44.7 | 0 | 5 | 12 | 14 | 0 | 35.9 | 60 | 4 | 33 | 18 | 49 | 4, 11 | 25 | 31 | 10 | 3 | 23 | 0 | 3 | 17 | 2 | 5 | 23 | 0 | 0 | 3 | 0 | 3 | 8 | 0 | 1 | 5 | 0 | 1 |
| | Croydon ... | 1 | 8 | 14 | 8 | 0 | * | 2 | 3 | 13 | 13 | 0 | * | 59 | 4 | 32 | 18 | 50 | 4 | 21 | 19 | 8 | 8 | 16 | 0 | 7 | 19 | 1 | 7 | 21 | 0 | 1 | 2 | 0 | 4 | 5 | 1 | 1 | 3 | 8 | 1 |
| | Calshot ... (Southampton) | 0 | 5 | 17 | 9 | 0 | * | 0 | 4 | 11 | 15 | 1 | * | 58 | 4 | 38 | 22 | 51 | 4 | 28 | 19, 31 | 9 | 0 | 27 | 0 | 4 | 22 | 0 | 1 | 27 | 1 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 1 | 9 |
| | Lympne ... | 0 | 8 | 20 | 3 | 0 | * | 0 | 9 | 14 | 8 | 0 | * | 56 | 4 | 34 | 31 | 49 | 4 | 26 | 31 | 11 | 7 | 13 | 0 | 12 | 13 | 1 | 8 | 16 | 1 | 0 | 0 | 4 | 2 | 8 | 0 | 1 | 1 | 1 | 8 |
| 2 | Shoeburyness | 0 | 8 | 18 | 5 | 0 | 44.9 | 0 | 8 | 11 | 12 | 0 | 35.9 | 59 | 4 | 34 | 19 | 48 | 4 | 25 | 19 | 9 | 4 | 17 | 2 | 7 | 19 | 0 | 4 | 20 | 0 | 1 | 1 | 1 | 2 | 16 | 0 | 0 | 2 | 3 | 8 |
| | Gorleston ... | 0 | 7 | 20 | 4 | 0 | 43.6 | 0 | 3 | 17 | 11 | 0 | 35.2 | 59 | 4 | 35 | 19 | 47 | 11, 25 | 30 | 19 | 5 | 2 | 19 | 0 | 1 | 24 | 0 | 0 | 22 | 0 | 0 | 1 | 1 | 2 | 11 | 0 | 0 | 1 | 2 | 4 |
| | Cranwell ... | 0 | 13 | 13 | 5 | 0 | 42.4 | 1 | 9 | 15 | 6 | 0 | 34.6 | 58 | 4 | 33 | 31 | 48 | 25 | 23 | 31 | 9 | 4 | 18 | 1 | 3 | 20 | 1 | 3 | 20 | 3 | 0 | 0 | 4 | 2 | 4 | 0 | 0 | 7 | 2 | 5 |
| 3 | Leafield ... | 0 | 12 | 15 | 4 | 0 | * | 2 | 7 | 16 | 6 | 0 | * | 56 | 4 | 34 | 30 | 47 | 11 | 21 | 31 | 13 | 8 | 17 | 0 | 8 | 17 | 3 | 4 | 22 | 1 | 0 | 0 | 2 | 3 | 13 | 0 | 0 | 0 | 3 | 20 |
| 4 | Ross-on-Wye ... | 2 | 8 | 12 | 9 | 0 | 45.1 | 3 | 4 | 10 | 14 | 0 | 34.9 | 59 | 4 | 27 | 18, 19 | 50 | 4 | 21 | 19, 20 | 9 | 8 | 17 | 0 | 4 | 26 | 0 | 4 | 26 | 0 | 1 | 1 | 2 | 2 | 18 | 0 | 2 | 1 | 0 | 19 |
| 5 | Falmouth ... (Pendennis) | 0 | 0 | 20 | 11 | 0 | * | 0 | 0 | 10 | 20 | 1 | * | 56 | 4, 6 | 42 | 31 | 52 | 4 | 35 | 31 | * | 0 | 31 | 0 | 0 | 31 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 24 |
| 7 | Holyhead ... | 0 | 0 | 19 | 12 | 0 | 46.9 | 0 | 0 | 8 | 22 | 1 | 39.9 | 57 | 4 | 42 | 22, 31 | 51 | 27 | 37 | 1 | 2 | 7 | 21 | 1 | 4 | 24 | 3 | 1 | 26 | 2 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 1 | 15 |
| 8 | Liverpool ... (Bidston) | 0 | 8 | 19 | 4 | 0 | 44.8 | 0 | 5 | 10 | 16 | 0 | 36.8 | 58 | 4 | 34 | 31 | 48 | 10 | 30 | 18, 23, 31 | 3 | 4 | 24 | 0 | 4 | 23 | 0 | 3 | 25 | 0 | 0 | 0 | 4 | 2 | 23 | 0 | 0 | 5 | 2 | 18 |
| 10 | Tynemouth ... | 0 | 7 | 17 | 7 | 0 | 44.3 | 0 | 6 | 12 | 13 | 0 | 34.7 | 57 | 24 | 34 | 31 | 48 | 27 | 25 | 31 | 9 | 5 | 24 | 0 | 3 | 27 | 0 | 2 | 28 | 0 | 0 | 1 | 1 | 0 | 18 | 0 | 0 | 4 | 4 | 11 |
| 11 | Inchkeith ... | 0 | 4 | 20 | 7 | 0 | * | 0 | 1 | 14 | 16 | 0 | * | 57 | 24 | 35 | 31 | 48 | 3, 27 | 30 | 31 | 4 | 2 | 28 | 1 | 2 | 29 | 0 | 1 | 30 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 2 | 24 |
| 12 | Renfrew ... | 0 | 7 | 17 | 7 | 0 | * | 1 | 2 | 13 | 15 | 0 | * | 56 | 24 | 35 | 31 | 50 | 27 | 22 | 31 | 5 | 1 | 29 | 0 | 4 | 25 | 0 | 2 | 27 | 1 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 2 | 3 | 16 |
| | Eskdalemuir ... | 2 | 10 | 15 | 4 | 0 | * | 2 | 6 | 18 | 5 | 0 | * | 52 | 10 | 29 | 31 | 47 | 27 | 21 | 31 | 10 | 13 | 13 | 0 | 11 | 15 | 0 | 8 | 16 | 0 | 0 | 2 | 1 | 2 | 16 | 0 | 1 | 1 | 0 | 20 |
| 13a | ‡ Stornoway C.G. | 0 | 3 | 19 | 9 | 0 | 44.4 | 0 | 3 | 13 | 15 | 0 | 35.4 | 54 | 24 | 35 | 30 | 49 | 3, 11, 14 | 29 | 31 | * | 1 | 28 | 0 | 5 | 26 | 0 | 3 | 28 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 26 |
| 15 | Aberdeen ... | 0 | 7 | 18 | 5 | 1 | 42.9 | 0 | 4 | 22 | 4 | 1 | 34.0 | 61 | 24 | 34 | 31 | 51 | 27 | 25 | 17 | 16 | 1 | 20 | 0 | 1 | 23 | 1 | 0 | 18 | 3 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 2 | 21 |
| 19 | Dublin ... (Phœnix Park) | 0 | 2 | 17 | 12 | 0 | 46.5 | 0 | 10 | 9 | 12 | 0 | 35.2 | 56 | 4 | 38 | 29, 30 | 47 | 25, 27 | 26 | 30 | 10 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Birr Castle ... | 0 | 3 | 19 | 9 | 0 | 46.1 | 0 | 3 | 10 | 17 | 1 | 35.0 | 57 | 4 | 39 | 29, 30, 31 | 51 | 26 | 28 | 31 | 9 | 0 | 23 | 0 | 0 | 29 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 30 |
| 20 | Valentia ... (Cahirciveen) | 0 | 0 | 11 | 20 | 0 | 49.8 | 0 | 1 | 4 | 22 | 4 | 41.1 | 57 | 4 | 43 | 30 | 52 | 25 | 32 | 31 | 2 | 10 | 21 | 0 | 10 | 21 | 0 | 6 | 25 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 28 |

## UPPER AIR TEMPERATURE.

| Pressure. mb. | Normal Height. Feet. | Normal Temperature. °F. | Duxford. Mean. °F. | Duxford. No. of Reports. | S. Farnborough. Mean. °F. | S. Farnborough. No. of Reports. | Leuchars Mean. °F. | Leuchars No. of Reports. |
|---|---|---|---|---|---|---|---|---|
| 950 | 1730 | 35 | 37 | 27 | 38 | 14 | 51 | - |
| 850 | 4640 | 29 | 32 | 26 | 36 | 13 | 53 | - |
| 750 | 7870 | 21 | 25 | 26 | 27 | 12 | 39 | - |
| 650 | 11,490 | 9 | 15 | 25 | 14 | 7 | 27 | - |
| 550 | 15,620 | -4 | -1 | 25 | -9 | 7 | - | - |

## UPPER WINDS.

No. of records of Velocity (m.p.h.) within fixed limits.

| Station. Height. Feet. | Renfrew. No. of Obs. | 9 or less | 10 to 25 | 26 to 45 | 46 to 75 | Above 75 | Holyhead. No. of Obs. | 9 or less | 10 to 25 | 26 to 45 | 46 to 75 | Above 75 | Plymouth (Mt. Batten). No. of Obs. | 9 or less | 10 to 25 | 26 to 45 | 46 to 75 | Above 75 | Lympne. No. of Obs. | 9 or less | 10 to 25 | 26 to 45 | 46 to 75 | Above 75 | Station. Height. Feet. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2,000 | 18 | 4 | 7 | 7 | - | - | 50 | 11 | 18 | 18 | 3 | - | 13 | 2 | 8 | 3 | - | - | 54 | 5 | 27 | 22 | - | - | 2,000 |
| 5,000 | 4 | - | 3 | 1 | - | - | 18 | 10 | 5 | 3 | - | - | 5 | - | 2 | 3 | - | - | 17 | 4 | 8 | 5 | - | - | 5,000 |
| 10,000 | 1 | - | 1 | - | - | - | 5 | 1 | 3 | 1 | - | - | - | - | - | - | - | - | 4 | - | 2 | 2 | - | - | 10,000 |
| 15,000 | - | - | - | - | - | - | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 15,000 |

† The readings used, are, except in the case of Phœnix Park, the maximum for the period 7 h.-18 h., and the minimum for the period 18 h.-7 h. The normal values given above are based on extremes taken over the 24 hours.

METEOROLOGICAL OFFICE, AIR MINISTRY, Kingsway, London, W.C.2.

G. C. Simpson, C.B., D.Sc., F.R.S., Director.

‡ Observations Coastguard station began Sept. 1930. Normals and extremes for the old station.

# SUNSHINE, RAINFALL, AND HUMIDITY DECEMBER 1931.

## SUNSHINE.

| District. | Stations. | Number of Days with duration. Nil. | 0·1—3h. | 3·1—6h. | 6·1—9h. | Above 9h. | Maximum Duration. Hours. | Date. | Total for past 12 months. Hours. | Difference from average. Hours. | Total for Month. Hours. | Difference from average. Hours. | Highest and Lowest Totals on record for Month. First year of record. | Highest. Hrs. | Year. | Lowest. Hrs. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London ... (Kew Obsy.) | 20 | 7 | 4 | 0 | 0 | 5.5 | 7 | 1265 | −210 | 29 | −8 | 1880 | 72 | '86 | 0 | '90 |
| | Croydon ... | 20 | 8 | 3 | 0 | 0 | 5.6 | 7 | 1284 | * | 27 | * | 1922 | 58 | '29 | 19 | '30 |
| | Calshot** ... (Southampton) | 16 | 8 | 5 | 2 | 0 | 6.7 | 7 | 1499 | * | 46 | * | 1881 | 86 | '86 | 21 | '90 |
| | Lympne ... | 16 | 9 | 3 | 3 | 0 | 6.8 | 31 | 1619 | * | 40 | * | 1921 | 85 | '26 | 41 | '21 |
| 2 | Shoeburyness | 15 | 9 | 5 | 2 | 0 | 6.6 | 31 | 1610 | * | 44 | * | 1919 | 73 | '26 | 32 | '19 |
| | Gorleston ... | 18 | 9 | 4 | 0 | 0 | 6.0 | 7 | 1468 | −237 | 35 | −10 | 1908 | 64 | '25 | 21 | '08 |
| | Cranwell ... | 11 | 11 | 9 | 0 | 0 | 5.2 | 7 | 1430 | −118 | 52 | +12 | 1921 | 62 | '29 | 33 | '30 |
| 3 | Leafield ... | 14 | 9 | 6 | 2 | 0 | 6.7 | 7 | 1369 | * | 48 | * | 1924 | 73 | '29 | 22 | '27 |
| 4 | Ross-on-Wye ... | 14 | 10 | 5 | 2 | 0 | 7.0 | 7 | 1309 | −177 | 46 | +4 | 1915 | 73 | '29 | 30 | '15, '27 |
| 5 | Falmouth ... (Observatory) | 15 | 10 | 5 | 1 | 0 | 6.5 | 1 | 1454 | −305 | 42 | −13 | 1881 | 82 | '86 | 19 | '90 |
| 7 | Holyhead ... | 16 | 15 | 0 | 0 | 0 | 2.9 | 18 | 1414 | −192 | 15 | −22 | 1914 | 71 | '16 | 24 | '22 |
| 8 | Liverpool ... (Bidston) | 15 | 12 | 4 | 0 | 0 | 5.5 | 30 | 1294 | −162 | 36 | −7 | 1908 | 70 | '29 | 17 | '27 |
| 10 | Tynemouth ... | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 11 | Inchkeith** ... | 13 | 14 | 4 | 0 | 0 | 5.3 | 30 | 1322 | * | 30 | * | 1923 | 51 | '24, '29 | 22 | '27 |
| 12 | Renfrew ... | 22 | 7 | 2 | 0 | 0 | 4.9 | 29 | 1092 | * | 13 | * | 1921 | 43 | '23, '29 | 12 | '27 |
| | Eskdalemuir ... | 19 | 9 | 2 | 1 | 0 | 6.1 | 30 | 1067 | −148 | 26 | +2 | 1910 | 56 | '25 | 3 | '12 |
| 13B | H Stornoway C.G. | 18 | 12 | 1 | 0 | 0 | 3.1 | 1 | 1204 | −55 | 11 | −12 | 1881 | 50 | '90 | 6 | '84 |
| 15 | Aberdeen ... | 11 | 14 | 6 | 0 | 0 | 5.4 | 11 | 1217 | −170 | 45 | +9 | 1881 | 68 | '91 | 7 | '03 |
| 19 | Dublin ... (Phœnix Park) | 15 | 13 | 3 | 0 | 0 | 5.4 | 30 | 1272 | −235 | 30 | −18 | 1881 | 79 | '97 | 20 | '10 |
| | Birr Castle ... | 13 | 14 | 4 | 0 | 0 | 5.8 | 21 | 1218 | −125 | 32 | −11 | 1881 | 68 | '81 | 22 | '84 |
| 20 | Valentia ... (Cahirciveen) | 22 | 8 | 1 | 0 | 0 | 3.3 | 8 | 1249 | −196 | 14 | −27 | 1880 | 64 | '81 | 18 | '02 |

## RAINFALL.

| District. | Stations. | ‡Number of days with amount. 0, trace or 0·1 mm. | 0·2—1 mm. | 1·1—5 mm. | 5·1—15 mm. | 15·1—25 mm. | Above 25 mm. | Maximum fall in 24 hrs. mm. | Date. | Total for past 12 months. mm. | Difference from Average. mm. | Total for Month.‡ mm. | Difference from Average. mm. | Highest and Lowest Totals on record for Month. First year of record. | Highest. mm. | Year. | Lowest. mm. | Year. | Days with Thunder. | Days with Snow or Sleet. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London ... (Kew Obsy.) | 21 | 5 | 5 | 0 | 0 | 0 | 5 | 3 | 604 | −2 | 14 | −44 | 1871 | 162 | '14 | 6 | '26 | 0 | 1 |
| | Croydon ... | 22 | 5 | 4 | 0 | 0 | 0 | 5 | 3 | 657 | −22 | 15 | −54 | 1921 | 174 | '29 | 8 | '26 | 0 | 2 |
| | Calshot** ... (Southampton) | 24 | 2 | 4 | 1 | 0 | 0 | 7 | 3 | 675 | +29 | 15 | −59 | 1871 | 251 | '14 | 10 | '26 | 0 | 2 |
| | Lympne ... | 17 | 9 | 5 | 0 | 0 | 0 | 5 | 8 | 633 | −91 | 17 | −65 | 1920 | 181 | '29 | 29 | '26 | 0 | 2 |
| 2 | Shoeburyness | 25 | 3 | 3 | 0 | 0 | 0 | 4 | 3 | 490 | +10 | 10 | −34 | 1920 | 82 | '28 | 17 | '26 | 0 | 1 |
| | Gorleston ... | 17 | 7 | 4 | 3 | 0 | 0 | 8 | 30 | 674 | +52 | 34 | −28 | 1871 | 151 | '14 | 15 | '90 | 0 | 4 |
| | Cranwell ... | 22 | 3 | 4 | 2 | 0 | 0 | 8 | 3 | 691 | +101 | 25 | −31 | 1917 | 92 | '29 | 13 | '17 | 1 | 2 |
| 3 | Leafield ... | 19 | 7 | 2 | 3 | 0 | 0 | 12 | 5 | 681 | −13 | 35 | −34 | 1924 | 121 | '24 | 11 | '26 | 1 | 2 |
| 4 | Ross-on-Wye ... | 20 | 5 | 3 | 3 | 0 | 0 | 12 | 5 | 778 | +60 | 33 | −43 | 1818 | 196 | '29 | 8 | '40 | 0 | 1 |
| 5 | Falmouth ... (Observatory) | 15 | 5 | 8 | 3 | 0 | 0 | 13 | 2 | 1161 | +54 | 53 | −106 | 1871 | 280 | '15 | 21 | '26 | 0 | 0 |
| 7 | Holyhead ... | 16 | 5 | 6 | 4 | 0 | 0 | 15 | 2 | 852 | −36 | 58 | −48 | 1871 | 206 | '15 | 21 | 26 | 0 | 0 |
| 8 | Liverpool ... (Bidston) | 17 | 8 | 4 | 2 | 0 | 0 | 6 | 5 | 822 | +113 | 31 | −36 | 1867 | 156 | '18 | 13 | '05 | 0 | 2 |
| 10 | Tynemouth ... | 17 | 11 | 1 | 2 | 0 | 0 | 12 | 29 | 786 | +165 | 35 | −20 | 1915 | 133 | '15 | 18 | '26 | 0 | 1 |
| 11 | Inchkeith** ... | 21 | 8 | 2 | 0 | 0 | 0 | 4 | 3 | 712 | +158 | 10 | −25 | 1870 | 145 | '76 | 7 | '26 | 0 | 2 |
| 12 | Renfrew ... | 12 | 5 | 9 | 4 | 1 | 0 | 23 | 2 | 1016 | +91 | 99 | −12 | 1921 | 230 | '29 | 35 | '27 | 0 | 1 |
| | Eskdalemuir ... | 12 | 4 | 7 | 4 | 2 | 2 | 27 | 3 | 1562 | +133 | 146 | −32 | 1910 | 331 | '29 | 51 | '26 | 1 | 6 |
| 13B | H Stornoway C.G. | 2 | 7 | 9 | 11 | 2 | 0 | 18 | 27 | 1193 | −73 | 145 | −14 | 1870 | 378 | '98 | 30 | '27 | 0 | 2 |
| 15 | Aberdeen ... | 16 | 7 | 6 | 2 | 0 | 0 | 10 | 29 | 739 | −9 | 35 | −47 | 1871 | 227 | '76 | 20 | '05 | 0 | 4 |
| 19 | Dublin ... (Phœnix Park) | 18 | 5 | 5 | 3 | 0 | 0 | 8 | 2 | 776 | +71 | 35 | −30 | 1877 | 166 | '14 | 19 | '85 | 0 | 0 |
| | Birr Castle ... | 12 | 7 | 9 | 3 | 0 | 0 | 11 | 2 | 902 | +73 | 53 | −31 | 1872 | 165 | '29 | 24 | '85 | 0 | 1 |
| 20 | Valentia ... (Cahirciveen) | 7 | 7 | 10 | 4 | 3 | 0 | 24 | 23 | 1424 | +10 | 128 | −41 | 1870 | 295 | '29 | 37 | '26 | 0 | 1 |

## MINIMUM SURFACE HUMIDITY.

No. of Days (Mdt. to Mdt.) with Minima between Fixed Limits.

| Stations. | 90 to 100 % | 80 to 89 % | 70 to 79 % | 60 to 69 % | 50 to 59 % | 40 to 49 % | 30 to 39 % | 20 to 29 % | 10 to 19 % |
|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 3 | 8 | 7 | 9 | 4 | 0 | 0 | 0 | 0 |
| Ross-on-Wye | 4 | 4 | 13 | 7 | 3 | 0 | 0 | 0 | 0 |
| Falmouth (Obsy.) | 3 | 6 | 12 | 8 | 1 | 1 | 0 | 0 | 0 |
| Renfrew ... | 2 | 8 | 13 | 5 | 2 | 1 | 0 | 0 | 0 |
| Eskdalemuir | 3 | 6 | 11 | 9 | 2 | 0 | 0 | 0 | 0 |
| Aberdeen ... | 2 | 1 | 7 | 13 | 8 | 0 | 0 | 0 | 0 |
| Valentia ... | 3 | 9 | 5 | 9 | 5 | 0 | 0 | 0 | 0 |

## STATE OF GROUND AT 18h.

No. of Days each type was recorded.

| Stations. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 0 | 29 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| Ross-on-Wye | 0 | 27 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| Renfrew ... | 0 | 28 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| Eskdalemuir | 0 | 24 | 2 | 0 | 1 | 0 | 1 | 3 | 0 | 0 |
| Aberdeen ... | 0 | 26 | 0 | 1 | 1 | 0 | 1 | 0 | 2 | 0 |
| Valentia ... | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**CODE for State of Ground.**

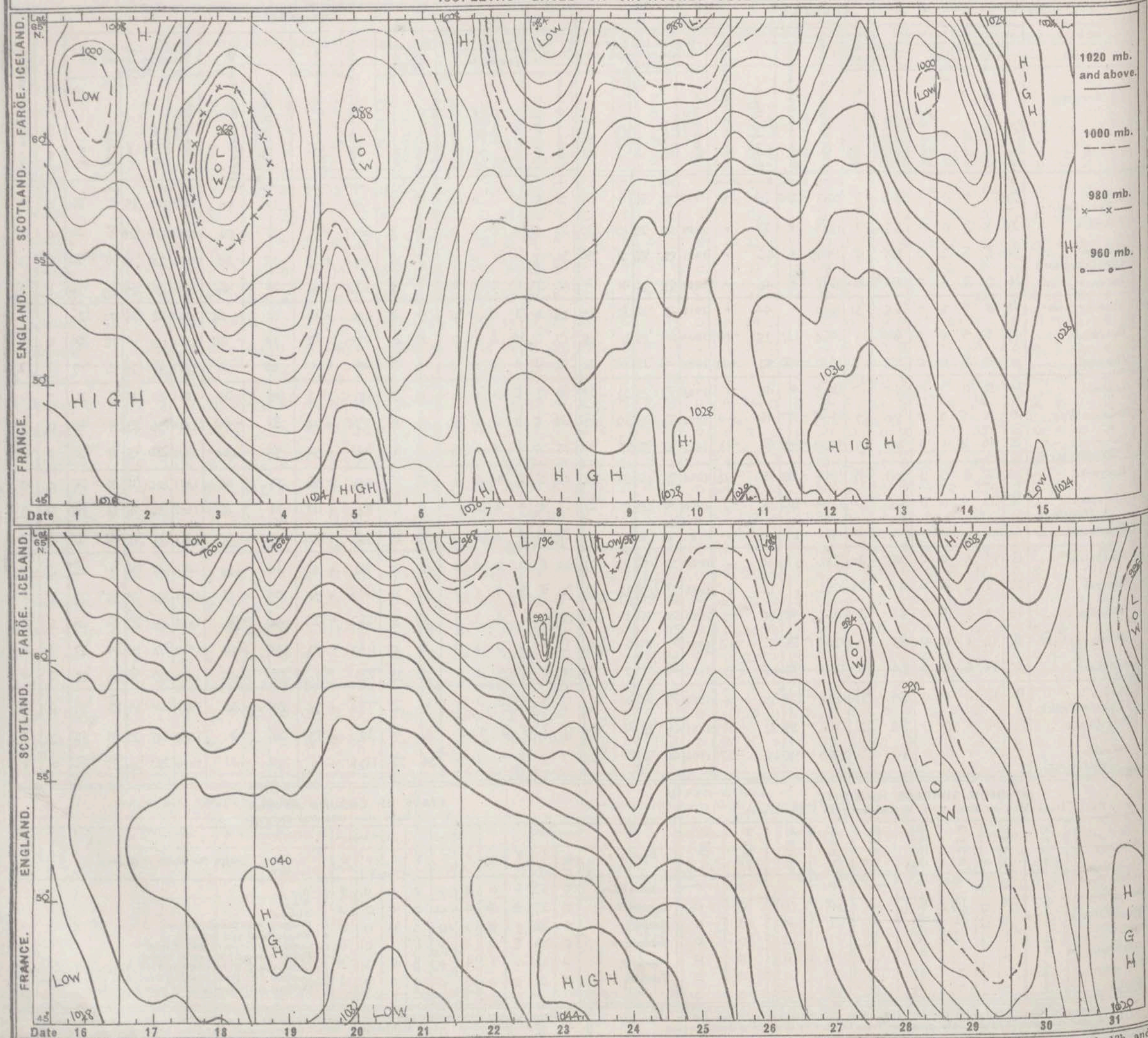
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

** In extremes of rainfall the short period returns from Inchkeith are supplemented by those from Leith, and extremes of rainfall and sunshine from Calshot by those from Southampton.

‡ Based in part on reports made by telegraph in which the day and night measurements are rounded off to the nearest whole millimetre. Small discrepancies may arise between these totals and those given in the Monthly Weather Report which are based on readings taken to 0·1 mm.

# PRESSURE: ICELAND TO GULF OF LIONS DECEMBER, 1931

ISOPLETHS* BASED ON SIX-HOURLY OBSERVATIONS.




* The diagram is obtained by drawing a line from Akureyri in Iceland to the south of France near Marseilles. The points at which the isobars drawn for 4 mb. pressure intervals intersect this line at 1h., 7h., 13h., and 18h. are plotted consecutively and joined to shew the variation of pressure from day to day at any point in the line. The line terminates at Lat. 66° N., Long. 18° W. in the north: at Lat. 44½° N., Long. 4° E. in the south.

H.M. Stationery Office Press, Kingsway W.C.2.

Pc 343/2362. Pr 71. D.6005. Gp 908. 820 1/32.

Page 1

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 1st December 1931.

No. 25576

### OBSERVATIONS at 13h. G.M.T. 30th November

| District | Stations (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew)... | 1027.2 | -2 | - | 0 | f | 41 | 85 | 3 | 5 | - | - | 10 | 10 | <150 |
| | Croydon ... | 1027.0 | -2 | - | 0 | of- | 41 | 95 | 3 | 5 | - | - | 10 | 10 | 2500 |
| | S. Farnborough | 1026.5 | -2 | W | 1 | of | 42 | 95 | 3 | 5 | - | - | 10 | 10 | 450 |
| | Winchester ... | 1027.1 | +2 | NNE | 2 | o | 43 | 95 | 5 | 5 | - | - | 10 | 10 | 220 |
| | Boscombe Down | 1026.9 | 0 | NNE | 3 | c | 44 | 95 | 5 | 5 | - | - | 10 | 10 | 450 |
| | Calshot, S'thmtn | 1026.4 | -2 | N | 2 | d$_o$d$_o$ | 44 | 95 | 5 | 6 | - | - | 10 | 10 | 1500 |
| | Dungeness ... | * | * | NNW | 2 | c | * | * | 4 | 5 | 1 | - | 4-6 | 9+ | 1500 |
| | Lympne ... | 1026.7 | +6 | N | 3 | o | 42 | 95 | 4 | 5 | - | - | 10 | 10 | <150 |
| 2 | Shoeburyness | 1027.0 | +2 | WNW | 1 | F | 41 | 95 | 1 | 5 | - | - | 10 | 10 | <150 |
| | Felixstowe ... | 1027.2 | +6 | NNW | 2 | of | 43 | 95 | 3 | 5 | - | - | 10 | 10 | 450 |
| | Gorleston ... | 1026.4 | -4 | S'W | 1 | d$_o$d$_o$ | 42 | 95 | 2 | 6 | - | - | 10 | 10 | 800 |
| | Cranwell ... | 1027.1 | +2 | NW | 3 | f | 41 | 95 | 2 | 5 | - | - | 10 | 10 | <150 |
| 3 | Birmingham ... | 1027.5 | +4 | NNW | 2 | c | 42 | 95 | 4 | 5 | - | - | 7-8 | 7-8 | 450 |
| | Upper Heyford | 1027.5 | 0 | NE | 2 | f | 41 | 95 | 3 | 5 | - | - | 10 | 10 | <150 |
| | Leafield ... | 1027.0 | +4 | N'W | 2 | f | 42 | 95 | 2 | 5 | - | - | 10 | 10 | <150 |
| 4 | Ross-on-Wye ... | 1027.0 | +4 | N'W | 2 | bc | 47 | 85 | 5 | 1 | - | 2 | 1 | 2-3 | 4000 |
| 5 | Portland Bill... | 1025.7 | 0 | NNE | 3 | of | 47 | 95 | 3 | 5 | - | - | 10 | 10 | 1500 |
| | Plymouth ... | 1026.6 | -2 | N | 3 | bc | 49 | 75 | 7 | 1 | - | 1 | 2-3 | 2-3 | 2500 |
| | Falmouth ... | 1026.7 | -12 | N'E | 4 | bc | 50 | 85 | 8 | 1 | 3 | - | 2-3 | 4-6 | 4000 |
| | Scilly (St. Mary's) | 1028.2 | -4 | N'E | 4 | bc | 50 | 75 | 8 | 1 | 7 | - | 2-3 | 2-3 | 4000 |
| | Guernsey ... | 1025.0 | 0 | WSW | 1 | c | 53 | 85 | 7 | 8 | - | - | 10 | 10 | 1500 |
| 6 | Pembroke ... | 1028.4 | -8 | NNE | 2 | bc | 50 | 95 | 8 | - | 7 | 2 | 0 | 4-6 | - |
| 7 | Holyhead ... | 1028.0 | +2 | N'W | 1 | bc | 50 | 85 | 8 | 4 | - | - | 2-3 | 2-3 | 2500 |
| | Chester (Sealand) | 1028.3 | 0 | NW | 1 | c | 43 | 95 | 5 | 5 | - | - | 9 | 9 | 800 |
| 8 | L'pool (Bidston) | 1028.1 | 0 | - | 0 | c/f | 43 | 95 | 5 | 5 | - | - | 7-8 | 7-8 | 800 |
| 9 | Harrogate ... | 1026.9 | +6 | W | 1 | b | 46 | 85 | 7 | - | - | 8 | 0 | 1 | - |
| 10 | Spurn Head ... | 1026.0 | +2 | NW'N | 3 | if | 43 | 95 | 3 | 5 | - | - | 10 | 10 | 450 |
| | Catterick ... | 1027.2 | -2 | NW | 1 | bc | 47 | 85 | 7 | 4 | 4 | 8 | 1 | 4-6 | 4000 |
| | Tynemouth ... | 1026.7 | 0 | W | 1 | bc | 46 | 85 | 6 | 5 | - | 1 | 2-3 | 2-3 | 1500 |
| 11 | Inchkeith ... | 1027.1 | -2 | SW | 2 | o | 42 | 95 | 4 | 5 | - | - | 10 | 10 | 800 |
| | Leuchars ... | 1026.4 | +2 | W | 2 | b | 47 | 75 | 8 | - | - | 9 | 0 | 1 | - |
| 12 | Renfrew ... | 1027.8 | +2 | - | 0 | F | 36 | 95 | 1 | 5 | - | - | 10 | 10 | <150 |
| | Eskdalemuir ... | 1027.8 | +2 | S | 1 | if | 39 | 95 | 8 | - | - | - | 0 | 0 | - |
| 13A | Tiree ... | 1025.4 | +4 | SW | 2 | bc | 51 | 75 | 8 | 7 | 4 | 8 | 2-3 | 2-3 | 2500 |
| 13B | Stornoway ... | 1024.7 | +6 | - | 0 | bc | 49 | 85 | 9 | 7 | 7 | - | 2-3 | 4-6 | 2500 |
| 15 | Dalwhinnie ... | 1027.4 | -6 | S | 2 | bc | 45 | 75 | 8 | 4 | - | - | 4-6 | 4-6 | 2500 |
| | Aberdeen ... | 1026.1 | 0 | - | 0 | b | 46 | 75 | 6 | - | - | 1 | 0 | Tr. | - |
| | Wick ... | 1025.2 | +6 | WSW | 2 | bc | 45 | 85 | 8 | 7 | - | 9 | 2-3 | 4-6 | 4000 |
| 16 | Lerwick ... | 1023.7 | +4 | SW/S | 1 | bc | 47 | 75 | 8 | 5 | 4 | - | 1 | 2-3 | 1500 |
| 17 | Blacksod Point | 1025.6 | -4 | SW | 3 | pr | 49 | 85 | 7 | 3 | - | - | 10 | 10 | 450 |
| 18 | Malin Head ... | 1026.3 | 0 | S'W | 2 | b | 48 | 85 | 7 | 5 | 8 | 9 | 1 | 1 | 2500 |
| | Aldergrove ... | 1028.1 | -6 | S'W | 1 | b | 43 | 85 | 6 | 5 | 7 | - | Tr. | 1 | 1500 |
| | Donaghadee ... | 1027.4 | +4 | WSW | 2 | b | 47 | 75 | 6 | 5 | - | - | 1 | 1 | 2500 |
| 19 | Birr Castle ... | 1027.6 | 0 | SSW | 1 | b | 48 | 85 | 8 | - | - | 1 | 0 | 1 | - |
| 20 | Valentia Obsy. | 1027.2 | -6 | S'E | 4 | bc | 52 | 85 | 8 | 7 | - | 2 | 2-3 | 4-6 | 1500 |
| | Roches Point... | 1029.2 | -6 | N | 2 | bc | 49 | 85 | 8 | 5 | - | - | 2-3 | 2-3 | 1500 |

### OBSERVATIONS at 18h. G.M.T. 30th November

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew)... | 1028.3 | +14 | NW'N | 1 | c | 43 | 95 | 4 | 5 | - | - | 10 | 10 | 1500 | 1 | • |
| | Croydon ... | 1027.8 | +8 | WNW | 2 | of- | 41 | 95 | 3 | 5 | - | - | 10 | 10 | 220 | 1 | • |
| | S. Farnborough | 1028.3 | +12 | - | 0 | of | 42 | 95 | 3 | 5 | - | - | 10 | 10 | 450 | 1 | • |
| | Winchester ... | 1028.4 | +14 | N'E | 3 | of | 43 | 95 | 3 | 5 | - | - | 10 | 10 | 220 | 1 | • |
| | Boscombe Down | 1028.0 | +12 | NNE | 3 | o | 44 | 95 | 4 | 5 | - | - | 10 | 10 | 450 | 1 | • |
| | Calshot, S'thmtn | 1027.7 | +10 | N | 3 | o | 45 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 1 |
| | Dungeness ... | * | * | NNW | 1 | of | * | * | 3 | 5 | - | * | 10 | 10 | 800 | * | 0 |
| | Lympne ... | 1027.3 | +6 | N'E | 3 | F | 38 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 1 | • |
| 2 | Shoeburyness | 1027.7 | +10 | NW | 1 | F | 40 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 1 | • |
| | Felixstowe ... | 1027.8 | +6 | NNW | 2 | f | 39 | 95 | 2 | 5 | - | - | 10 | 10 | <150 | 1 | 1 |
| | Gorleston ... | 1027.3 | +8 | NW | 2 | o | 41 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | 1 |
| | Cranwell ... | 1028.6 | +12 | NNW | 2 | cf | 41 | 95 | 3 | 5 | - | - | 10 | 10 | 450 | 1 | • |
| 3 | Birmingham ... | 1029.0 | +8 | N | 2 | of- | 40 | 95 | 3 | 5 | - | - | 10 | 10 | 450 | 1 | • |
| | Upper Heyford | 1028.8 | +14 | NNE | 1 | f | 42 | 95 | 3 | 5 | - | - | 10 | 10 | <150 | 1 | • |
| | Leafield ... | 1028.3 | +12 | NNW | 1 | ou | 41 | 95 | 4 | 5 | - | - | 10 | 10 | 450 | 1 | • |
| 4 | Ross-on-Wye ... | 1028.4 | +10 | NE | 2 | o | 42 | 95 | 4 | 5 | - | - | 10 | 10 | 800 | 1 | • |
| 5 | Portland Bill... | 1027.2 | +12 | NE'N | 3 | c/r | 46 | 85 | 5 | 5 | 4 | - | 4-6 | 7-8 | 1500 | 1 | 2 |
| | Plymouth ... | 1027.9 | +10 | N | 3 | b | 47 | 85 | 5 | - | - | - | 0 | 0 | - | 1 | 0 |
| | Falmouth ... | 1027.7 | +4 | N'W | 3 | bc | 46 | 85 | 7 | 7 | - | - | 2-3 | 2-3 | 4000 | 0 | 1 |
| | Scilly (St. Mary's) | 1028.9 | +4 | NE'N | 3 | bc | 46 | 85 | 8 | 1 | - | - | 2-3 | 2-3 | 4000 | 0 | 2 |
| | Guernsey ... | 1026.0 | +16 | - | 0 | o | 51 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | 1 |
| 6 | Pembroke ... | 1028.1 | +6 | NNE | 1 | bc | 44 | 95 | 8 | 4 | 6 | 1 | 2-3 | 4-6 | 2500 | | |
| 7 | Holyhead ... | 1028.8 | +6 | - | 0 | b | 43 | 95 | 6 | - | - | 1 | 0 | Tr. | - | 1 | 0 |
| | Chester (Sealand) | 1029.4 | +10 | - | 0 | F+ | 42 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 1 | • |
| 8 | L'pool (Bidston) | 1029.4 | +6 | - | 0 | F+ | 39 | 95 | 0 | 5 | - | - | 10 | 10 | <150 | 1 | • |
| 9 | Harrogate ... | 1028.7 | +10 | SW | 1 | b | 38 | 95 | 7 | - | - | - | 0 | 0 | - | 1 | • |
| 10 | Spurn Head ... | 1027.0 | +6 | N'W | 3 | c | 44 | 95 | 6 | 2 | - | - | 10 | 10 | 800 | 0 | 2 |
| | Catterick ... | 1028.9 | +14 | NW | 3 | b | 35 | 95 | 7 | - | - | - | 0 | 0 | - | 1 | • |
| | Tynemouth ... | 1027.9 | +8 | WNW | 2 | bc | 39 | 95 | 7 | 5 | - | - | 2-3 | 2-3 | 1500 | 0 | 2 |
| 11 | Inchkeith ... | 1027.9 | +2 | SW | 3 | F | 39 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 1 | 2 |
| | Leuchars ... | 1027.4 | +6 | S | 1 | b | 35 | 95 | 6 | 4 | - | - | Tr. | Tr. | 4000 | 1 | • |
| 12 | Renfrew ... | 1028.3 | 0 | - | 0 | F | 38 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 1 | • |
| | Eskdalemuir ... | 1029.5 | +10 | - | 0 | d$_o$d$_o$ | 35 | 95 | 2 | 5 | - | - | 10 | 10 | <150 | 1 | • |
| 13A | Tiree ... | 1024.9 | -2 | SSE | 3 | bc | 44 | 95 | 8 | 7 | 6 | - | 2-3 | 4-6 | 2500 | 0 | 2 |
| 13B | Stornoway ... | 1024.9 | 0 | - | 0 | c | 38 | 95 | 6 | 6 | 2 | - | 4-6 | 7-8 | 2500 | 0 | 0 |
| 15 | Dalwhinnie ... | 1029.4 | +4 | - | 0 | bc | 35 | 85 | 8 | 5 | - | - | 2-3 | 2-3 | 2500 | 0 | |
| | Aberdeen ... | 1027.9 | +8 | W | 1 | b | 34 | 95 | 4 | - | - | - | 0 | 0 | - | 1 | 1 |
| | Wick ... | 1026.1 | +8 | WSW | 2 | bc | 36 | 95 | 8 | 5 | 4 | - | 2-3 | 4-6 | 2500 | 1 | 2 |
| 16 | Lerwick ... | 1025.2 | +4 | - | 0 | b | 42 | 95 | 5 | 5 | - | - | 1 | 1 | 1500 | 1 | • |
| 17 | Blacksod Point | 1024.4 | -6 | SW | 5 | cr | 50 | 85 | 7 | 3 | - | - | 10 | 10 | 800 | 1 | 4 |
| 18 | Malin Head ... | 1025.6 | -2 | SSE | 2 | b | 44 | 95 | 8 | 5 | 8 | - | 1 | 1 | 4000 | 0 | 2 |
| | Aldergrove ... | 1028.7 | +2 | - | 0 | bF | 33 | 95 | 1 | - | - | - | 0 | 0 | - | 1 | • |
| | Donaghadee ... | 1027.9 | +2 | WSW | 1 | b | 41 | 85 | 6 | - | - | - | 0 | 0 | - | 0 | 0 |
| 19 | Birr Castle ... | 1026.9 | 0 | S | 1 | bc | 39 | 95 | 8 | - | - | 8 | 0 | 2-3 | - | 1 | • |
| 20 | Valentia Obsy. | 1026.8 | +2 | S'E | 3 | bc | 48 | 85 | 8 | 8 | - | 1 | 2-3 | 4-6 | 1500 | 1 | 3 |
| | Roches Point... | 1028.6 | +4 | SW | 3 | bc | 50 | 85 | 8 | 3 | - | - | 4-6 | 4-6 | 1500 | 0 | 3 |

### PAST 24 HOURS.

| District | Stations | Weather 7h.–13h. 30th (37) | Weather 13h.–18h. 30th (38) | Weather 18h 30th to 1h. 1st (39) | Weather 1h.–7h. 1st (40) |
|---|---|---|---|---|---|
| 1 | London (Kew)... | off | ofomw | omw | omw |
| | Croydon ... | ofefe | coffe | ofem | ofm |
| | S. Farnborough | ofcf | offd$_o$ | ofofe | ofefe |
| | Winchester ... | ofdr$_o$ | omf | ofom$_o$ | om$_o$ |
| | Boscombe Down | ddffe | om | om | omw |
| | Calshot, S'thmtn | ordm | bm$_o$ | cm$_o$ | cm$_o$ |
| | Dungeness ... | d | f | * | f |
| | Lympne ... | offm | oFe | ocFew | ofecfe |
| 2 | Shoeburyness | bcm$_o$off | of | of | of |
| | Felixstowe ... | omcf | cmoff | off | off |
| | Gorleston ... | ddo | od$_o$m$_o$ | od$_o$m | ffm |
| | Cranwell ... | d$_o$fr$_o$ | ofbcf | bcfofe | fecfe |
| 3 | Birmingham ... | cff | bcmof | ofm | o |
| | Upper Heyford | fed$_o$ | ofmffe | offe | offe |
| | Leafield ... | or$_o$r$_o$FF | off | offe | soffe |
| 4 | Ross-on-Wye ... | fcmboz⊕ | bzbcmbo | om | om |
| 5 | Portland Bill... | rrFcf | cfer$_o$m$_o$ | omff | ff |
| | Plymouth ... | owcm$_o$b | bcbm$_o$ | bm$_o$f | bF |
| | Falmouth ... | cbc | bc | bc | bc |
| | Scilly (St. Mary's) | bc | bc | bcbbc | bcc |
| | Guernsey ... | cwoc | odrdo | o | or$_o$ |
| 6 | Pembroke ... | bc | bc | bbc | f |
| 7 | Holyhead ... | bcb | b | bwbcm$_o$x | bcw |
| | Chester (Sealand) | Fecm | oFeFe | Fecm | cmFe |
| 8 | L'pool (Bidston) | Fcme | moFe | Fefe | feFe |
| 9 | Harrogate ... | cb | b | b | bx |
| 10 | Spurn Head ... | ifdif | ifdo | ocbcm | bcmf |
| | Catterick ... | bcifem | bcbw | bcm | bcmf |
| | Tynemouth ... | bcm | bcm$_o$ | bcfefe | bccFeFe |
| 11 | Inchkeith ... | omm | oFFe | oFFide | oFFmc |
| | Leuchars ... | cbwm$_o$b | bm$_o$x | bcm$_o$ | bbccxm$_o$ |
| 12 | Renfrew ... | fFFe | FeFe | Fecf | fcm$_o$ |
| | Eskdalemuir ... | cffbif | bffod$_o$d$_o$ | ofFd$_o$ | oFd$_o$Fo |
| 13A | Tiree ... | cbc | bcbc | bcc | cLOr |
| 13B | Stornoway ... | bc | c | cpr$_o$ | cpr |
| 15 | Dalwhinnie ... | bc | bc | • | c |
| | Aberdeen ... | bcbz | bz$_o$m | bm | bbc |
| | Wick ... | bc | bc | bc | bccΦ |
| 16 | Lerwick ... | cbc | bc | bcm$_o$ | c |
| 17 | Blacksod Point | prc | cr | prq | prc |
| 18 | Malin Head ... | bc | bcbx | bxbce | Φc |
| | Aldergrove ... | bm$_o$ | boFeFe | bffe | cir$_o$ |
| | Donaghadee ... | bm$_o$ | bm$_o$ | bm$_o$ | bidb |
| 19 | Birr Castle ... | b | bbc | bc | bcxc |
| 20 | Valentia Obsy. | bcb | bc | bcc | cor$_o$r$_o$ |
| | Roches Point... | bc | bc | bc | bcc |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220-1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s$_o$, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s$_o$/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus, R, heavy rain. r$_o$, slight rain. rr, continuous rain.

<, less than (for cloud height).

⊕, Solar halo. Φ, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

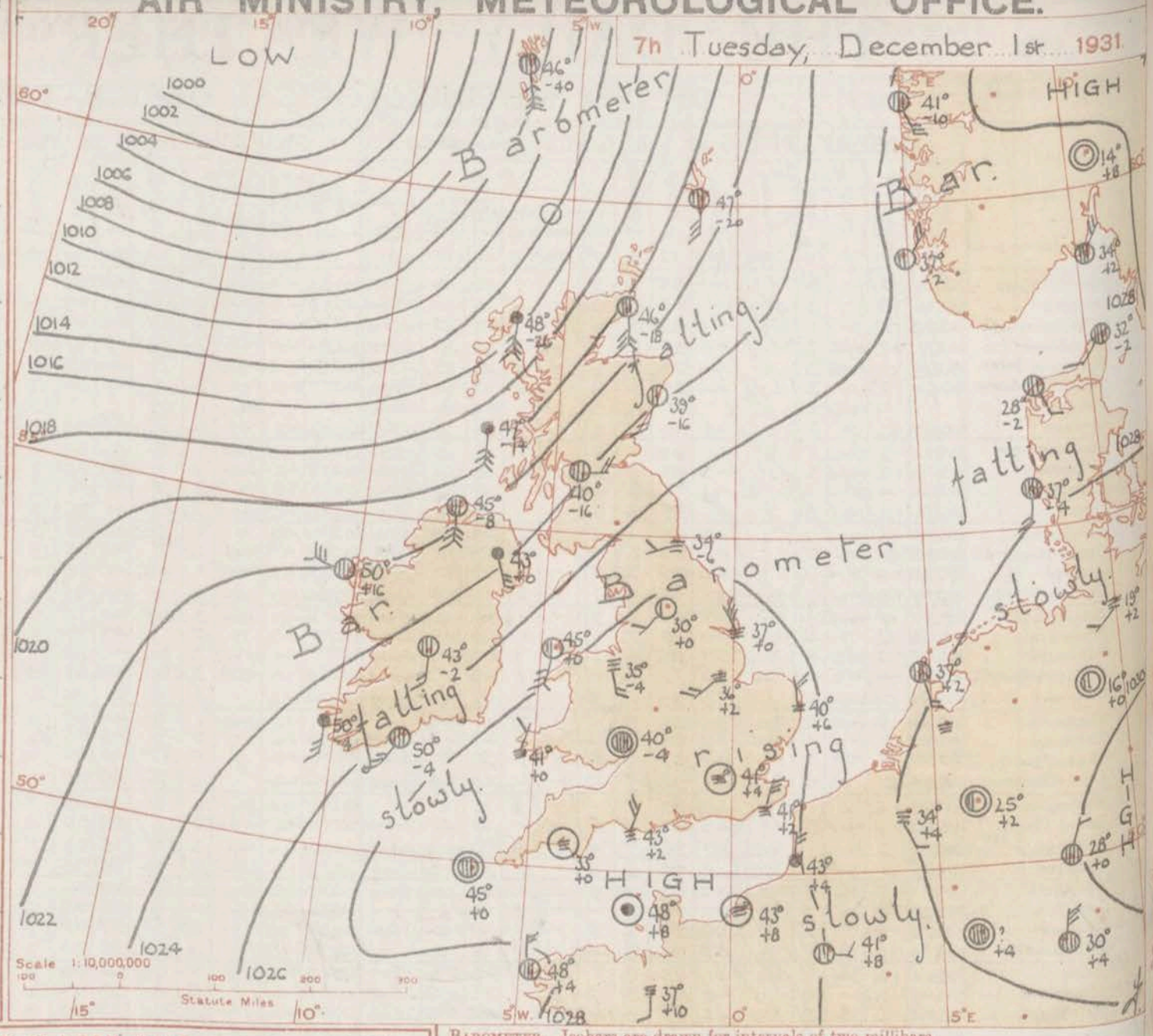
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for ... 30th November ... 1931.

| Districts | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 30m. to 9h. 30m. | Temperature. Max. 9h.—17h. 30m. | Rainfall. Night. 17h. 30m. to 9h. 30m. | Rainfall. Day. 9h.—17h. 30m. | Sunshine. Sunrise to Sunset. 30m. |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | ofo | ofo | 32 | 43 | 0.3 | – | 0.0 |
| | Bournemouth | ood | odo | 38 | 45 | 2 | 1 | 0.0 |
| | Ventnor ... | odor | dfof | 46 | 48 | Tr | 1 | 0.0 |
| | Southsea ... | oro | o | 37 | 46 | – | 1 | 0.0 |
| | Bognor Regis | o | o | 36 | 45 | – | – | 0.0 |
| | Littlehampton | c | c | 33 | 43 | – | – | 0.0 |
| | Worthing ... | oc | c | 35 | 45 | Tr | – | 0.4 |
| | Brighton ... | bcc | co | 35 | 46 | – | – | 0.0 |
| | Eastbourne† | ffoc | co | 35 | 45 | Tr | – | 0.0 |
| | Hastings† ... | ofmc | com | 40 | 46 | 0.2 | – | 0.0 |
| | Folkestone ... | wombc | bcmof | 43 | 46 | – | – | 0.7 |
| | Dover... ... | oifmc | mco | 44 | 46 | 0.2 | – | 0.0 |
| | Deal ... ... | oco | o | 43 | 46 | – | – | 0.0 |
| | Ramsgate ... | o | o | 44 | 46 | 0.2 | – | 0.0 |
| | Margate ... | c | c | 45 | 46 | – | – | 0.0 |
| 2 | Southend ... | of | of | 36 | 40 | Tr | – | 0.0 |
| | Maldon ... | off | off | 39 | 41 | 0.3 | – | 0.0 |
| | Clacton-on-Sea | ogm | ogmf | 42 | 42 | – | – | 0.0 |
| | Dovercourt ... | foc | ocf | 41 | 44 | – | – | 0.0 |
| | Lowestoft ... | oirm | mid | 41 | 43 | 1 | Tr | 0.0 |
| | Skegness ... | fom | om | 35 | 43 | Tr | – | 0.0 |
| | Mablethorpe | om | om | 36 | 43 | Tr | – | 0.0 |
| | Cleethorpes ... | ofe | omf | 37 | 44 | Tr | Tr | 0.0 |
| 3 | Leamington S. | oem | om | 33 | 43 | Tr | – | 0.0 |
| 4 | Cheltenham† | ome | omfe | 37 | 44 | 1 | – | 0.0 |
| 5 | Bath ... ... | c | c | 40 | 47 | 1 | – | 0.0 |
| | Weymouth ... | mc | gc | 41 | 47 | 1 | – | 0.0 |
| | Jersey ... | c | c | 42 | 51 | – | – | 0.0 |
| | Torquay ... | dprc | obcb | 45 | 52 | 2 | – | 4.7 |
| | Penzance ... | b | b | 46 | 54 | – | – | 6.5 |
| | St. Ives ... | c | c | 49 | 53 | – | – | 3.6 |
| | Bude ... ... | pcbc | b | 44 | 49 | 1 | – | 6.0 |
| | Ilfracombe ... | cbc | bcb | 47 | 50 | 0.1 | – | 4.4 |
| 6 | Aberystwyth | oidfe | fedcb | 38 | 48 | 2 | – | 6.1 |
| 7 | Llandudno ... | c | cbcm | ? | 50 | 2 | – | 2.0 |
| | Colwyn Bay ... | cbcmo | bccb | 42 | 46 | 1 | – | 2.0 |
| | Rhyl ... ... | Fc | bcbm | 39 | 49 | 1 | – | 2.1 |
| 8 | Wallasey ... | Foc | bcoF | 40 | 43 | 0.3 | – | 0.2 |
| | Southport‖ ... | fef | fcF | 40 | 43 | 0.1 | – | 0.0 |
| | Blackpool ... | ofc | cbc | 39 | 46 | 1 | – | 1.7 |
| | Morecambe ... | mfcf | bccf | 38 | 43 | 1 | Tr | 2.2 |
| 9 | Ilkley... ... | bcmb | b | 36 | 47 | 0.5 | – | 2.9 |
| 10 | Berwick-on-T. | bc | bc | 34 | 45 | – | – | 4.1 |
| 11 | Dunbar ... | bcmo | owf | 37 | 43 | Tr | – | 2.1 |
| 12 | Douglas ... | xbc | bcoF | 39 | 52 | – | – | 6.3 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

## AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm, = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◔ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 1st Dec. 1931. |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands<br>4. W. Midlands<br>5. S.W. England | Wind light and variable; mainly cloudy, but with some breaks; some fog in many places; rather low temperature; night frost locally. |
| 6. South Wales<br>7. North Wales<br>8. N.W. England | Wind southwesterly, light or moderate; mainly cloudy; perhaps some rain later; rather low to moderate temperature. |
| 9. N. Midlands<br>10. N.E. England | Wind variable or southwesterly, light or moderate; mainly cloudy, but with breaks; some fog; rather low or moderate temperature. |
| 11. S.E. Scotland<br>12. S.W. Scotland & Isle of Man | Wind southwesterly, moderate, fresh locally; cloudy; some rain; improving later; moderate temperature. |
| 13. A. W. Scotld. B. N.W. Scotland. ↓ | Wind southwesterly, fresh, stronger locally, veering temporarily; cloudy; some rain; improving; moderate temperature. |
| 14. Mid-Scotland<br>15. N.E. Scotland<br>16. Orkneys and Shetlands. | Wind south or southwest, moderate to strong, veering temporarily; cloudy; some rain; improving later; moderate temperature. |
| 17. N.W. Ireland ↓<br>18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland | Wind mainly southwesterly, moderate, fresh locally; cloudy; occasional rain; fairer later; moderate temperature. |

### GENERAL INFERENCE.

An anticyclone which extends from Eastern Europe to the Azores covers the greater part of the British Isles. A depression south of Iceland will move northeast and will be followed by another from the Mid-Atlantic. Weather will be mainly quiet and fair in England and Wales, apart from fog, but unsettled elsewhere especially in the extreme Northwest.

### FURTHER OUTLOOK.

Unsettled in the Northwest; not much change elsewhere.

### Time of issue of Gale Warning.

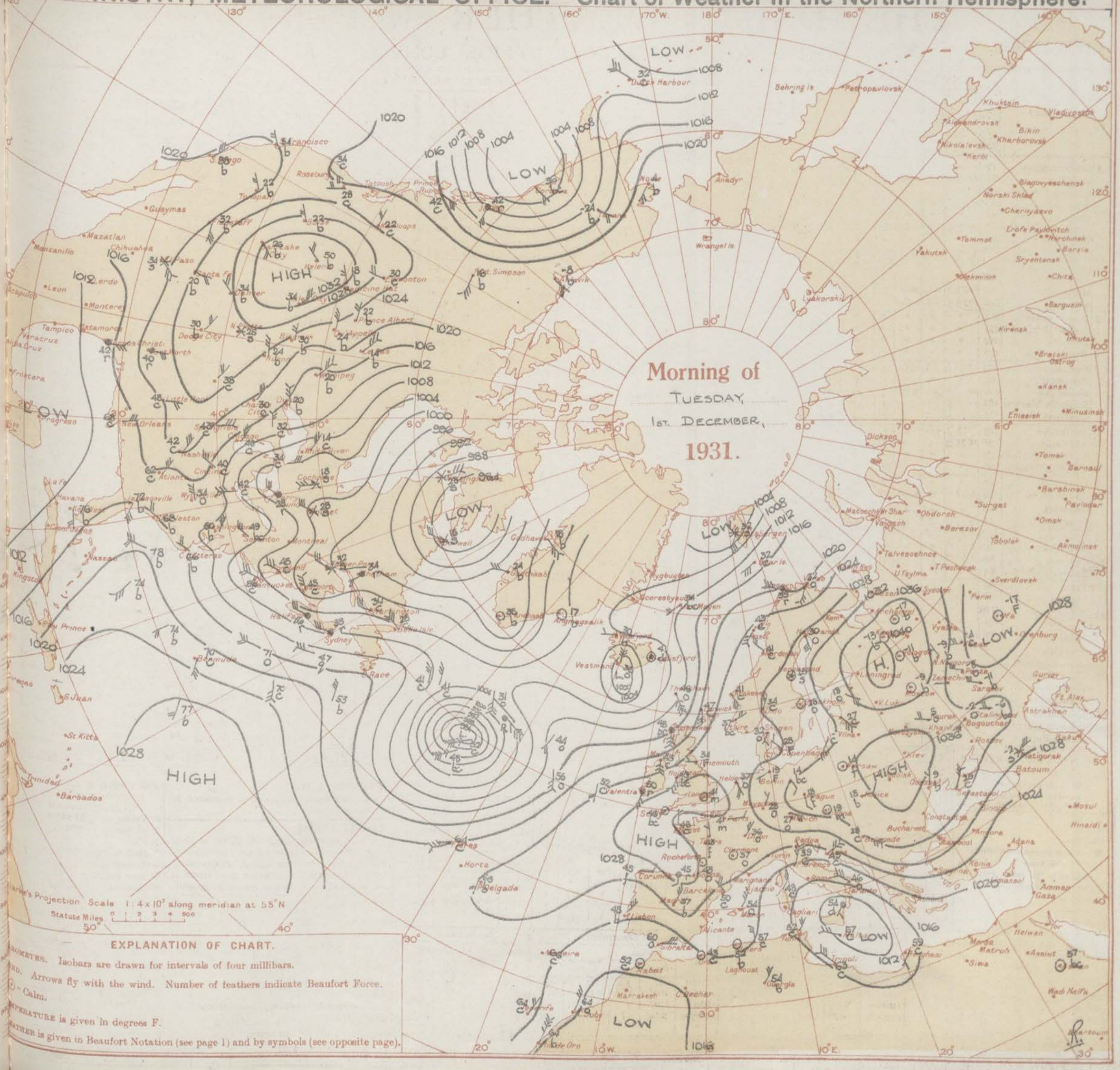
↓ South Cone at 1445 on 30th November in districts 13B and 17.

Forecasts issued at 0950 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.




## EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 1st December 1931.

No. 25576

### OBSERVATIONS at 1 hr. G.M.T. 1st December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1028.5 | +2 | NNW | 2 | 0 | 42 | 95 | 4 | 5 | – | – | 10 | 10 | 450 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot (S'thmtn) | 8 | 1028.6 | +2 | N | 2 | C | 48 | 85 | 6 | 5 | – | – | 10 | 10 | 1500 |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1027.9 | +2 | N'W | 2 | F | 39 | 95 | 1 | 5 | – | – | 10 | 10 | <150 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1027.9 | +6 | NW | 2 | 0 | 41 | 95 | 4 | 5 | – | – | 10 | 10 | 1500 |
| | Cranwell | 240 | 1029.3 | +4 | WSW | 2 | f | 35 | 95 | 2 | 5 | – | – | 10 | 10 | <150 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1028.6 | +8 | NE | 3 | of | 45 | 85 | 3 | 5 | – | – | 10 | 10 | 1500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1028.9 | +4 | NNE | 2 | bc | 41 | 95 | 7 | 5 | – | – | 2-3 | 2-3 | 4000 |
| | Scilly (St. Mary's) | 163 | 1029.5 | +2 | NNE | 1 | bc | 45 | 85 | 8 | 7 | 6 | – | 2-3 | 4-6 | 4000 |
| | Guernsey | 175 | 1027.0 | +8 | – | 0 | 0 | 49 | 85 | 7 | 5 | – | – | 10 | 10 | 1500 |
| 6 | Pembroke | 142 | 1028.7 | +6 | NE | 1 | bc | 41 | 95 | 7 | 5 | 4 | – | 2-3 | 2-3 | 2500 |
| 7 | Holyhead | 26 | 1028.9 | 0 | – | 0 | bc | 37 | 95 | 5 | 5 | – | 1 | 2-3 | 2-3 | 2500 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1028.0 | 0 | NW'N | 3 | bc | 41 | 95 | 5 | 5 | 1 | – | 2-3 | 4-6 | 800 |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1028.5 | 0 | W | 2 | bcf | 35 | 95 | 3 | 5 | – | – | 2-3 | 2-3 | 1500 |
| 11 | Inchkeith | 190 | 1027.9 | 0 | SW | 2 | of | 36 | 95 | 1 | 5 | – | – | 10 | 10 | <150 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1019.9 | -26 | S | 6 | C | 49 | 95 | 7 | 8 | 2 | – | 4-6 | 10 | 1500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1024.2 | -10 | SW | 3 | bc | 45 | 95 | 8 | 7 | – | 1 | 2-3 | 4-6 | 2500 |
| 16 | Lerwick | 54 | 1024.7 | -4 | S | 2 | ac | 47 | 85 | 7 | 8 | – | – | 9+ | 9+ | 1500 |
| 17 | Blacksod Point | 18 | 1020.7 | -20 | S | 7 | pr | 51 | 85 | 7 | 3 | – | – | 10 | 10 | 450 |
| 18 | Malin Head | 52 | 1023.7 | -18 | SSE | 4 | C | 44 | 85 | 7 | 5 | 9 | 9 | 1 | 7-8 | 2500 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1025.3 | -6 | S | 5 | C | 50 | 95 | 7 | 3 | – | – | 10 | 10 | 2500 |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 1st December

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1029.7 | +6 | WNW | 1 | 0 | 42 | 95 | 4 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| | Croydon | 1029.2 | +4 | – | 0 | 0/f | 41 | 96 | 4 | 5 | – | – | 10 | 10 | 220 | 1 | * |
| | S. Farnborough | 1029.6 | +6 | NW | 1 | of | 40 | 95 | 2 | 5 | – | – | 10 | 10 | 450 | 1 | * |
| | Winchester | 1029.7 | +6 | NE | 2 | 0 | 41 | 95 | 5 | 5 | – | – | 10 | 10 | 800 | 1 | * |
| | Boscombe Down | 1029.6 | +4 | N | 1 | 0 | 40 | 96 | 4 | 5 | – | – | 10 | 10 | 800 | 1 | * |
| | Calshot (S'thmtn) | 1029.0 | +4 | NNW | 3 | C | 43 | 95 | 6 | 6 | – | – | 10 | 10 | 1600 | 0 | 1 |
| | Dungeness | * | * | NW | 1 | cf- | * | * | 3 | 5 | – | * | 9+ | 9+ | 800 | * | 0 |
| | Lympne | 1028.4 | +2 | N'E | 3 | cf | 41 | 96 | 3 | 5 | – | – | 9+ | 9+ | 4000 | 1 | * |
| 2 | Shoeburyness | 1028.8 | 0 | NW | 1 | of | 42 | 96 | 2 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| | Felixstowe | 1028.9 | +4 | N'W | 2 | f | 41 | 95 | 3 | 5 | – | – | 10 | 10 | <150 | 1 | 2 |
| | Gorleston | 1028.1 | +6 | NNW | 2 | F | 40 | 95 | 1 | 5 | – | – | 10 | 10 | <150 | 1 | 1 |
| | Cranwell | 1029.8 | +2 | WSW | 2 | cf | 36 | 96 | 2 | 5 | – | – | 9+ | 9+ | 1500 | 1 | * |
| 3 | Birmingham | 1029.6 | -2 | SSW | 1 | 0 | 38 | 95 | 7 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| | Upper Heyford | 1029.9 | +6 | NE | 1 | f | 38 | 95 | 2 | 5 | – | – | 10 | 10 | <150 | 1 | * |
| | Leafield | 1029.1 | +2 | ENE | 1 | f | 37 | 96 | 2 | 5 | – | – | 10 | 10 | <150 | 1 | * |
| 4 | Ross-on-Wye | 1029.2 | -4 | – | 0 | 0 | 40 | 95 | 5 | 5 | – | – | 10 | 10 | 800 | 1 | * |
| 5 | Portland Bill | 1028.8 | +2 | NNE | 2 | of | 43 | 85 | 3 | 5 | – | – | 10 | 10 | 1500 | 1 | 2 |
| | Plymouth | 1029.4 | +8 | – | 0 | F | 33 | 96 | 0 | 5 | – | – | 10 | 10 | <150 | 5 | 0 |
| | Falmouth | 1028.9 | +2 | N | 1 | bc | 37 | 96 | 7 | 5 | – | – | 2-3 | 2-3 | 4000 | 0 | 0 |
| | Scilly (St. Mary's) | 1029.6 | 0 | – | 0 | bc | 45 | 85 | 8 | 4 | 6 | 3 | 2-3 | 4-6 | 4000 | 0 | 1 |
| | Guernsey | 1028.2 | +8 | – | 0 | r.f. | 48 | 96 | 7 | 6 | – | – | 10 | 10 | 1500 | 1 | 3 |
| 6 | Pembroke | 1029.4 | 0 | NE'N | 1 | f | 41 | 95 | 3 | 5 | – | – | 10 | 10 | <150 | 0 | 1 |
| 7 | Holyhead | 1027.7 | 0 | SSW | 4 | bc | 45 | 95 | 8 | 5 | – | 3 | 2-3 | 4-6 | 4000 | 1 | 1 |
| | Chester (Sealand) | 1029.2 | -4 | SSE | 2 | of- | 35 | 96 | 2 | 6 | – | – | 10 | 10 | 220 | 1 | * |
| 8 | L'pool (Bidston) | 1028.1 | -4 | SE | 3 | f | 36 | 96 | 2 | 5 | – | – | 10 | 10 | <150 | 1 | * |
| 9 | Harrogate | 1028.9 | 0 | SW | 1 | b | 30 | 95 | 7 | – | – | 1 | 0 | Tr. | – | 4 | * |
| 10 | Spurn Head | 1028.5 | 0 | NW | 3 | F | 37 | 96 | 1 | 5 | 3 | – | 7-8 | 9+ | <150 | 1 | 2 |
| | Catterick | 1028.5 | -4 | – | 0 | bc | 24 | 95 | 7 | – | – | 4 | 0 | 2-3 | – | 4 | * |
| | Tynemouth | 1027.4 | -6 | W | 1 | CF | 34 | 95 | 1 | 5 | – | – | 7-8 | 7-8 | 800 | 1 | 2 |
| 11 | Inchkeith | 1026.8 | -10 | SW | 2 | C | 39 | 95 | 5 | 6 | 1 | – | 2-3 | 9+ | 800 | 0 | 1 |
| | Leuchars | 1026.2 | -10 | W | 2 | C | 34 | 95 | 6 | 5 | 4 | – | 7-8 | 9 | 1500 | 4 | * |
| 12 | Renfrew | 1025.7 | -16 | E | 2 | C | 40 | 95 | 6 | 6 | 2 | – | 9 | 10 | 2500 | 1 | * |
| | Eskdalemuir | 1027.7 | -10 | WSW | 1 | F | 33 | 96 | 1 | 5 | – | – | 10 | 10 | <150 | 1 | * |
| 13A | Tiree | 1018.8 | -14 | S | 6 | id. | 47 | 85 | 6 | 6 | 2 | – | 9 | 10 | 1500 | 0 | 3 |
| 13B | Stornoway | 1014.8 | -26 | S | 6 | pr | 48 | 96 | 7 | 6 | 2 | – | 7-8 | 10 | 1500 | 1 | 4 |
| 15 | Dalwhinnie | 1022.8 | -14 | SSW | 5 | C | 42 | 75 | 5 | 4 | 2 | – | 7-8 | 10 | 1500 | 0 | * |
| | Aberdeen | 1023.9 | -16 | SSW | 2 | bc | 39 | 85 | 7 | – | – | 8 | 0 | 4-6 | – | 1 | 1 |
| | Wick | 1020.3 | -18 | S | 5 | C | 46 | 85 | 8 | 8 | 1 | – | 7-8 | 9 | 2500 | 1 | 3 |
| 16 | Lerwick | 1021.1 | -20 | S | 3 | C | 47 | 85 | 8 | 5 | – | – | 7-8 | 7-8 | 1500 | 0 | * |
| 17 | Blacksod Point | 1021.9 | +16 | WNW | 4 | C | 50 | 85 | 7 | 8 | – | – | 9 | 9 | 800 | 1 | 4 |
| 18 | Malin Head | 1020.5 | -8 | S | 6 | C | 45 | 95 | 7 | 6 | 7 | 8 | 1 | 9 | 2500 | 0 | 3 |
| | Aldergrove | 1026.3 | 0 | SSE | 3 | ir. | 43 | 85 | 6 | 6 | – | – | 10 | 10 | 800 | 1 | * |
| | Donaghadee | 1025.7 | -4 | – | 0 | bc | 41 | 95 | 7 | 5 | – | – | 2-3 | 2-3 | 2500 | 1 | 0 |
| 19 | Birr Castle | 1025.1 | -2 | S | 2 | C | 43 | 95 | 8 | 5 | – | – | 9+ | 9+ | 1500 | 1 | * |
| 20 | Valentia Obsy.† | 1024.6 | -4 | S | 3 | r.r. | 50 | 95 | 6 | 5 | – | – | 10 | 10 | 800 | 1 | * |
| | Roches Point | 1026.6 | -4 | SW | 3 | C | 50 | 95 | 8 | 3 | – | – | 7-8 | 7-8 | 2500 | 0 | 3 |

### PAST 24 HOURS.

| District | Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F (32) | Temperature Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 30th Hrs. (36) |
|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 43 | 41 | 39 | Tr. | – | 0.0 |
| | Croydon | 42 | 41 | 39 | Tr. | Tr. | 0.0 |
| | S. Farnborough | 43 | 39 | 31 | Tr. | Tr. | 0.0 |
| | Winchester | 44 | 40 | 40 | 0.5 | – | 0.0 |
| | Boscombe Down | 44 | 39 | 39 | 0.5 | Tr. | * |
| | Calshot (S'thmtn) | 46 | 43 | 41 | 1 | Tr. | 0.0 |
| | Dungeness | 45 | 37 | * | – | – | * |
| | Lympne | 43 | 37 | 37 | Tr. | Tr. | 0.0 |
| 2 | Shoeburyness | 42 | 39 | 41 | – | – | 0.0 |
| | Felixstowe | 44 | 37 | 35 | – | – | 0.0 |
| | Gorleston | 43 | 40 | 38 | 0.2 | 0.2 | 0.0 |
| | Cranwell | 42 | 34 | 31 | 0.3 | Tr. | 0.0 |
| 3 | Birmingham | 42 | 38 | 37 | – | – | 0.0 |
| | Upper Heyford | 43 | 37 | 37 | Tr. | – | * |
| | Leafield | 43 | 37 | 37 | 0.3 | Tr. | 0.0 |
| 4 | Ross-on-Wye | 47 | 40 | 39 | – | – | 2.9 |
| 5 | Portland Bill | 48 | 42 | * | 0.1 | – | * |
| | Plymouth | 51 | 32 | 29 | – | Tr. | 2.7 |
| | Falmouth | 51 | 37 | * | – | – | 6.5 |
| | Scilly (St. Mary's) | 50 | 42 | * | – | – | 6.5 |
| | Guernsey | 53 | 48 | 41 | 1 | 1 | 0.0 |
| 6 | Pembroke | 51 | 37 | * | – | – | 6.7 |
| 7 | Holyhead | 50 | 37 | 29 | – | 0.1 | 6.4 |
| | Chester (Sealand) | 45 | 31 | 29 | Tr. | Tr. | 0.6 |
| 8 | L'pool (Bidston) | 48 | 36 | 33 | Tr. | Tr. | 0.2 |
| 9 | Harrogate | 46 | 20 | 24 | – | – | 5.1 |
| 10 | Spurn Head | 44 | 36 | * | Tr. | – | 0.0 |
| | Catterick | 47 | 23 | 15 | Tr. | – | * |
| | Tynemouth | 46 | 33 | 32 | – | 0.2 | * |
| 11 | Inchkeith | 42 | 35 | 31 | Tr. | Tr. | 0.0 |
| | Leuchars | 48 | 29 | 21 | Tr. | Tr. | 5.2 |
| 12 | Renfrew | 39 | 35 | 35 | 0.1 | Tr. | 0.0 |
| | Eskdalemuir | 40 | 27 | 28 | 0.1 | 0.3 | 3.4 |
| 13A | Tiree | 51 | 45 | 38 | – | 1 | 3.5 |
| 13B | Stornoway | 50 | 36 | * | – | 1 | 4.9 |
| 15 | Dalwhinnie | (45) | 33 | 28 | – | – | 2.4 |
| | Aberdeen | 47 | 33 | 20 | – | – | 4.7 |
| | Wick | 47 | 35 | * | – | – | * |
| 16 | Lerwick | 47 | 42 | * | Tr. | – | 3.8 |
| 17 | Blacksod Point | 51 | 47 | * | 1 | 3 | * |
| 18 | Malin Head | 48 | 41 | * | – | – | 4.0 |
| | Aldergrove | 44 | 31 | 28 | Tr. | 0.1 | 4.7 |
| | Donaghadee | 49 | 36 | * | – | 0.2 | * |
| 19 | Birr Castle | 49 | 38 | 27 | – | – | 5.9 |
| 20 | Valentia Obsy.† | 53 | 47 | 43 | – | 2 | 5.6 |
| | Roches Point | 51 | 49 | * | – | – | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon (24 hrs. ended 9h.) | Weather Night (24 hrs. ended 9h.) | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset, hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. (To-day) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew | 18 | ofs | ofomw | omw | 43 | 41 | 39 | Tr. | – | 0.0 | * | * | 1 |
| Croydon | 217 | ofefe | cofse | ofem | 42 | 41 | 39 | Tr. | Tr. | 0.0 | * | * | 2 |
| Greenwich (Royal Observatory) | 149 | fefe | fefe | omobm | 42 | 40 | 34 | – | – | 0.0 | 99 | 94 | 4 |
| City (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Westminster (St. James' Park) | 27 | * | * | * | 45 | 42 | 38 | – | – | 0.0 | 89 | 85 | * |
| Regents Pk. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Camden Square | 110 | fe | c | * | 42 | 40 | 36 | – | – | * | * | 97 | * |
| Kensington | 80 | of | of | * | 44 | 41 | 36 | – | – | 0.0 | At 18h. 91 | 93 | * |
| Hampstead Observatory | 450 | ofe | o | o | 42 | 37 | 32 | – | – | 0.0 | * | 98 | * |

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 1.56.

| South Kensington Max. | Time. | Min. | Time. | Kew Observatory Max. | Time. | Min. | Time. |
|---|---|---|---|---|---|---|---|
| 2.9 | 11h 30m. | <0.3 | 3-5h. 15m. | 1.6 | 16h 30m. | 0.3 | 3h. 15m. |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 30th November Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 1st December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris | 1026.6 | – | 0 | 3 | 45 | 1028.1 | E | 1 | 0 | 41 | 46 | 41 | – | – |
| Brussels | 1027.0 | – | 0 | 0 | 45 | 1028.4 | ESE | 1 | cf | 34 | 46 | 39 | Tr. | – |
| Berlin | 1031.9 | SE | 3 | 6 | 23 | 1030.6 | SSE | 1 | 3 | 14 | 28 | 14 | – | – |
| Zürich | 1024.8 | NE | 1 | 3 | 37 | 1027.9 | SSW | 1 | 3 | 32 | 39 | 32 | – | – |
| Rome | | | | | | | | | | | | | | |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13–18 | 9 | 47–54 |
| 1 | 1–3 | 5 | 19–24 | 10 | 55–63 |
| 2 | 4–7 | 6 | 25–31 | 11 | 64–75 |
| 3 | 8–12 | 7 | 32–38 | 12 | 75 |
| | | 8 | 39–46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | | Objects not visible at |
|---|---|---|
| 0 | Dense fog | 55 yards. |
| 1 | Thick fog | 220 " |
| 2 | Fog | 550 " |
| 3 | Moderate fog | 1,100 " |
| 4 | Mist or haze | 1¼ miles. |
| 5 | Poor visibility | 2¼ " |
| 6 | Moderate " | 6¼ " |
| 7 | Good " | 12¼ " |
| 8 | Very good " | 31 " |
| 9 | Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | | | |
|---|---|---|---|
| 0 | Calm. | 5 | Very rough. |
| 1 | Smooth. | 6 | High. |
| 2 | Slight. | 7 | Very high. |
| 3 | Moderate. | 8 | Precipitous. |
| 4 | Rough. | 9 | Confused. |

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† Hourly observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 2nd December 1931.

No. 25577

### OBSERVATIONS at 13h. G.M.T. 1st December

| District | Stations. (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0-12 (4) | Weather. (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud. Form. Low. (9) | Cloud. Form. Med. (10) | Cloud. Form. High. (11) | Cloud. Amount. Low 0-10 (12) | Cloud. Amount. Total 0-10 (13) | Height of Base. (feet) (14) | Sunshine 30m. Hrs. (36) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1029·9 | -6 | NNE | 1 | f | 41 | 95 | 3 | 5 | - | - | 10 | 10 | <150 | 0·0 |
| | Croydon 1022.8 | 1029·7 | +2 | NWN | 1 | f | 42 | 95 | 3 | 5 | - | - | 10 | 10 | <150 | 0·0 |
| | S. Farnborough | 1030·0 | -2 | E | 1 | c | 42 | 95 | 5 | 5 | - | - | 9+ | 9+ | 800 | 0·0 |
| | Winchester | 1029·9 | -6 | NE | 1 | c | 43 | 85 | 5 | 5 | - | - | 9+ | 9+ | 800 | * |
| | Boscombe Down | 1030·3 | -2 | N | 1 | o | 40 | 95 | 5 | 5 | - | - | 10 | 10 | 800 | 0·0 |
| | Calshot, S'thmtn | 1029·9 | -2 | N | 2 | o | 44 | 85 | 5 | 5 | - | - | 10 | 10 | 800 | * |
| | Dungeness | * | * | NNW | 2 | m | * | * | 4 | 5 | 1 | - | 2·3 | 4·6 | 800 | 0·0 |
| | Lympne | 1029·4 | -2 | N'E | 3 | bc | 45 | 95 | 5 | 3 | - | - | 2·3 | 2·3 | 1500 | 0·0 |
| 2 | Shoeburyness | 1029·7 | +2 | NNW | 3 | bc | 46 | 85 | 6 | 7 | - | - | 4·6 | 4·6 | 4000 | 0·0 |
| | Felixstowe | 1030·0 | +2 | NNW | 2 | o | 45 | 85 | 6 | - | - | - | 0 | 0 | - | 0·0 |
| | Gorleston | 1029·0 | 0 | NWN | 1 | o | 44 | 95 | 6 | - | - | - | 0 | 0 | - | 0·0 |
| | Cranwell | 1028·7 | -16 | SW | 3 | f | 37 | 95 | 3 | 5 | - | - | 10 | 10 | 220 | 0·0 |
| 3 | Birmingham | 1029·7 | -8 | SSW | 2 | o | 38 | 95 | 5 | 5 | - | - | 10 | 10 | 450 | * |
| | Upper Heyford | 1030·2 | +2 | SW | 2 | o | 38 | 95 | 5 | 5 | - | - | 10 | 10 | <150 | 0·0 |
| | Leafield | 1030·1 | -4 | SW | 1 | m | 38 | 95 | 4 | 5 | - | - | 10 | 10 | 220 | 2·8 |
| 4 | Ross-on-Wye | 1029·7 | -4 | SW | 2 | o | 40 | 95 | 5 | 5 | - | - | 10 | 10 | 800 | * |
| 5 | Portland Bill | 1029·6 | -8 | NE | 2 | f | 42 | 95 | 3 | 5 | - | - | 10 | 10 | 1500 | 2·7 |
| | Plymouth | 1029·9 | -6 | - | 0 | f | 40 | 85 | 2 | 5 | - | - | 10 | 10 | <150 | 6·5 |
| | Falmouth | 1029·7 | 0 | - | 0 | bc | 47 | 95 | 6 | 1 | - | 8 | 2·3 | 4·6 | 4000 | 6·5 |
| | Scilly (St. Mary's) | 1029·8 | 0 | SW | 2 | c | 52 | 95 | 8 | 1 | - | 2 | 4·6 | 7·8 | 4000 | 0·0 |
| | Guernsey | 1028·8 | 0 | NE | 3 | m | 49 | 85 | 4 | 5 | 2 | · | 4·6 | 7·8 | 2500 | 6·7 |
| 6 | Pembroke | 1028·6 | -6 | NNE | 2 | bc | 47 | 85 | 8 | 5 | 4 | - | 2·3 | 4·6 | 1500 | 6·4 |
| 7 | Holyhead | 1027·2 | -6 | S | 4 | c | 47 | 95 | 6 | 5 | - | - | 9+ | 9+ | 1500 | 0·6 |
| | Chester (Sealand) | 1028·9 | -10 | SE'S | 3 | m | 37 | 95 | 4 | 5 | - | - | 10 | 10 | 220 | 0·2 |
| 8 | L'pool (Bidston) | 1028·1 | -6 | SE'E | 3 | f | 37 | 95 | 2 | 5 | - | - | 10 | 10 | <150 | 5·1 |
| 9 | Harrogate | 1028·1 | 0 | SW | 1 | b | 39 | 95 | 5 | 5 | - | 1 | Tr | Tr | 2500 | 0·0 |
| 10 | Spurn Head | 1028·0 | 0 | SWS | 1 | F | 36 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | * |
| | Catterick | 1027·8 | -10 | SSE | 3 | F | 30 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | * |
| | Tynemouth | 1026·1 | -12 | SW | 1 | f | 38 | 95 | 2 | 5 | - | - | 4·6 | 4·6 | 800 | 0·0 |
| 11 | Inchkeith | 1024·1 | -10 | SW | 4 | c | 47 | 85 | 7 | 4 | 4 | - | 4·6 | 7·8 | 1500 | 5·2 |
| | Leuchars | 1023·3 | -10 | SW | 3 | c | 44 | 85 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 0·0 |
| 12 | Renfrew | 1024·1 | -4 | SW | 3 | c\|r | 47 | 95 | 6 | 6 | 2 | - | 9 | 10 | 1500 | 3·4 |
| | Eskdalemuir | 1026·2 | -6 | SSW | 4 | o | 39 | 95 | 5 | 5 | - | - | 10 | 10 | <150 | 3·5 |
| 13A | Tiree | 1020·8 | +10 | SW | 5 | c\|p | 50 | 65 | 8 | 8 | 5 | - | 9 | 9+ | 2500 | 4·9 |
| 13B | Stornoway | 1015·6 | +2 | SW | 6 | bc | 49 | 85 | 8 | 2 | 7 | - | 2·3 | 4·6 | 2500 | 2·4 |
| 15 | Dalwhinnie | 1021·4 | -4 | WSW | 5 | c | 43 | 95 | 7 | 3 | 6 | - | 4·6 | 7·8 | 450 | 4·7 |
| | Aberdeen | 1022·5 | -10 | SSW | 3 | o | 43 | 85 | 6 | 5 | 4 | - | 7·8 | 7·8 | 1500 | * |
| | Wick | 1017·8 | -18 | SW | 5 | bc | 47 | 85 | 8 | 8 | 6 | 4 | 4·6 | 4·6 | 2500 | 3·8 |
| 16 | Lerwick | 1017·1 | -18 | S | 5 | c | 47 | 85 | 7 | 5 | 2 | - | 4·6 | 10 | 1500 | * |
| 17 | Blacksod Point | 1023·2 | +4 | S | 3 | c | 51 | 75 | 7 | 5 | - | 2 | 7·8 | 7·8 | 800 | 4·0 |
| 18 | Malin Head | 1022·8 | +8 | S | 4 | bc | 47 | 95 | 7 | 5 | - | 9 | 2·3 | 2·3 | 1500 | 4·7 |
| | Aldergrove | 1025·0 | -2 | SW | 2 | ir | 45 | 95 | 6 | 6 | 2 | - | 9 | 10 | 1500 | * |
| | Donaghadee | 1024·8 | -6 | WSW | 2 | ir | 47 | 85 | 7 | 6 | - | - | 9 | 9 | 800 | 5·2 |
| 19 | Birr Castle | 1025·1 | 0 | S | 2 | r | 50 | 85 | 7 | 6 | - | - | 10 | 10 | 1500 | 5·6 |
| 20 | Valentia Obsy. | 1024·4 | -10 | S | 4 | id | 52 | 95 | 7 | 5 | - | - | 9+ | 9+ | 800 | * |
| | Roches Point | 1026·9 | -4 | SW | 4 | c | 52 | 85 | 8 | 5 | - | - | 7·8 | 7·8 | 2500 | * |

### OBSERVATIONS at 18h. G.M.T. 1st December

| District | Stations. | Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind. Direc. (17) | Wind. Force 0-12 (18) | Weather. (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud. Form. Low. (23) | Cloud. Form. Med. (24) | Cloud. Form. High. (25) | Cloud. Amount. Low. 0-10 (26) | Cloud. Amount. Total 0-10 (27) | Height of Base (feet) (28) | State of Ground. 0-9 (29) | Sea. 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1030·8 | +6 | - | 0 | m | 41 | 95 | 4 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| | Croydon | 1030·3 | +6 | NNW | 1 | m | 41 | 95 | 4 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| | S. Farnborough | 1030·8 | +10 | WSW | 1 | o | 38 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Winchester | 1030·8 | +12 | NW | 1 | o | 42 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| | Boscombe Down | 1030·7 | +6 | SSW | 1 | o | 39 | 95 | 5 | 5 | - | - | 10 | 10 | 450 | 1 | * |
| | Calshot, S'thmtn | 1030·4 | +6 | NWW | 2 | o | 44 | 85 | 6 | 5 | - | - | 10 | 10 | 800 | 0 | 0 |
| | Dungeness | * | * | ENE | 2 | m | * | * | 4 | 6 | - | * | 2·3 | 2·3 | 1500 | * | 0 |
| | Lympne | 1030·3 | +8 | N | 1 | m | 37 | 95 | 4 | - | - | - | 0 | 0 | - | 1 | * |
| 2 | Shoeburyness | 1030·7 | +4 | NW | 1 | F | 37 38 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 1 | * |
| | Felixstowe | 1030·8 | +12 | NNW | 2 | f | 36 | 95 | 3 | 5 | - | - | 10 | 10 | <150 | 1 | 0 |
| | Gorleston | 1028·9 | +10 | NW'N | 2 | F | 38 | 95 | 1 | - | - | - | - | - | - | 0 | 1 |
| | Cranwell | 1030·3 | +12 | W'S | 2 | f- | 37 | 95 | 3 | 5 | - | - | 10 | 10 | 220 | 1 | * |
| 3 | Birmingham | 1030·6 | +6 | SW | 1 | o | 36 | 95 | 5 | 5 | - | - | 10 | 10 | <150 | 1 | * |
| | Upper Heyford | 1031·1 | +10 | SSW | 1 | o | 38 | 95 | 5 | 5 | - | - | 10 | 10 | <150 | 1 | * |
| | Leafield | 1030·5 | +14 | SW'S | 1 | f | 37 | 95 | 3 | 5 | - | - | 10 | 10 | <150 | 1 | * |
| 4 | Ross-on-Wye | 1029·9 | +4 | W | 1 | m | 37 | 95 | 4 | 5 | - | - | 10 | 10 | <150 | 1 | * |
| 5 | Portland Bill | 1029·9 | +4 | ENE | 1 | of | 41 | 85 | 3 | 5 | - | - | 10 | 10 | 1500 | 1 | 2 |
| | Plymouth | 1029·7 | +8 | NE | 2 | f | 39 | 95 | 3 | - | - | 1 | 0 | 2·3 | - | 1 | 0 |
| | Falmouth | 1029·1 | +2 | SSE | 2 | bc | 46 | 85 | 6 | 7 | - | 2 | 2·3 | 4·6 | 4000 | 0 | 1 |
| | Scilly (St. Mary's) | 1029·2 | -4 | SE'S | 3 | bc | 44 | 95 | 8 | 5 | - | 1 | 1 | 2·3 | 4000 | 0 | 1 |
| | Guernsey | 1029·0 | +10 | - | 0 | m | 49 | 85 | 4 | 5 | - | - | 10 | 10 | 800 | 1 | 2 |
| 6 | Pembroke | 1028·0 | +4 | S | 2 | c | 49 | 85 | 8 | 4 | 6 | - | 4·6 | 7·8 | 1500 | 0 | 1 |
| 7 | Holyhead | 1027·2 | +6 | SSW | 4 | c | 50 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 2 |
| | Chester (Sealand) | 1028·9 | +2 | SSE | 2 | F | 33 | 95 | 0 | 5 | - | - | 10 | 10 | <150 | 1 | * |
| 8 | L'pool (Bidston) | 1028·7 | 0 | SE | 3 | bf- | 37 | 95 | 3 | - | - | - | 0 | 0 | - | 1 | * |
| 9 | Harrogate | 1028·3 | +6 | SW | 1 | b | 37 | 95 | 5 | 5 | - | - | Tr | Tr | 2500 | 1 | * |
| 10 | Spurn Head | 1029·1 | +2 | W'S | 2 | f | 36 | 95 | 2 | 5 | - | - | 10 | 10 | <150 | 0 | 1 |
| | Catterick | 1028·3 | +6 | S | 3 | F | 31 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 1 | * |
| | Tynemouth | 1027·1 | +6 | SW | 2 | bc | 40 | 85 | 5 | 2 | - | - | 4·6 | 4·6 | 2500 | 0 | 1 |
| 11 | Inchkeith | 1025·1 | 0 | SW | 3 | c | 46 | 95 | 7 | 5 | 2 | - | 4·6 | 9 | 2500 | 0 | 2 |
| | Leuchars | 1023·4 | +6 | WSW | 2 | b | 41 | 95 | 5 | 4 | - | - | Tr | Tr | 2500 | 1 | * |
| 12 | Renfrew | 1024·4 | +2 | WSW | 2 | bc | 45 | 95 | 7 | 7 | - | - | 4·6 | 4·6 | 4000 | 1 | * |
| | Eskdalemuir | 1025·4 | +2 | SSW | 5 | d | 43 | 95 | 4 | 5 | - | - | 10 | 10 | <150 | 1 | * |
| 13A | Tiree | 1021·6 | +8 | SW | 4 | bc | 48 | 75 | 7 | 5 | 3 | - | 2·3 | 2·3 | 2500 | 0 | 3 |
| 13B | Stornoway | 1017·9 | +10 | SSW | 4 | bc | 46 | 95 | 8 | 5 | - | - | 2·3 | 2·3 | 2500 | 0 | 3 |
| 15 | Dalwhinnie | 1023·7 | +12 | S | 3 | bc | 42 | 75 | 7 | 8 | - | - | 4·6 | 4·6 | 1500 | 1 | * |
| | Aberdeen | 1022·8 | +10 | S'W | 3 | bc | 43 | 95 | 6 | 5 | - | - | 2·3 | 2·3 | 1500 | 1 | 1 |
| | Wick | 1019·9 | +6 | SW | 3 | bc | 43 | 95 | 8 | 7 | - | - | 4·6 | 4·6 | 2500 | 1 | 3 |
| 16 | Lerwick | 1015·9 | -6 | SSW | 4 | bc | 48 | 75 | 7 | 5 | - | - | 2·3 | 2·3 | 1500 | 0 | * |
| 17 | Blacksod Point | 1020·6 | -12 | SE'E | 5 | Dr | 51 | 85 | 6 | 3 | - | - | 10 | 10 | <150 | 1 | 4 |
| 18 | Malin Head | 1022·3 | +2 | S | 4 | bc | 46 | 95 | 7 | 5 | - | - | 4·6 | 4·6 | 2500 | 0 | 2 |
| | Aldergrove | 1024·8 | 0 | S'E | 2 | d | 46 | 95 | 5 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| | Donaghadee | 1024·7 | +2 | W | 2 | r | 47 | 95 | 7 | 6 | - | - | 10 | 10 | 800 | 1 | 1 |
| 19 | Birr Castle | 1024·4 | +4 | S | 2 | c | 49 | 85 | 8 | 6 | - | - | 9 | 9 | 1500 | 1 | * |
| 20 | Valentia Obsy. | 1023·3 | -6 | S'E | 4 | c | 51 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 |
| | Roches Point | 1025·9 | +4 | SW | 4 | c | 52 | 85 | 8 | 5 | - | - | 7·8 | 7·8 | 2500 | 0 | 4 |

### PAST 24 HOURS.

| District | Stations. | Weather. 7h.–13h. 1st (37) | Weather. 13h.–18h. 1st (38) | Weather. 18h. 1st to 1h. 2nd (39) | Weather. 1h.–7h. 2nd (40) |
|---|---|---|---|---|---|
| 1 | London (Kew) | omoFof | ofom | omom | om bfx |
| | Croydon | offbmo | offm | om | om fe |
| | S. Farnborough | offFm | cbcom | ocmo | ocm |
| | Winchester | om | omo | om | omcm |
| | Boscombe Down | om | omo | om | obm |
| | Calshot, S'thmtn | cmo | omo | om | o, bbc |
| | Dungeness | f | bc | * | f |
| | Lympne | cfbcm | bmo | bffe | bobfe |
| 2 | Shoeburyness | cmbm | bcboF | OFF | OFF |
| | Felixstowe | ofcbcbm | bccomf | offom | off om |
| | Gorleston | ofbm | bof | FF | ffe |
| | Cranwell | Femf | ofemf | ofe | ofem |
| 3 | Birmingham | o | o | o | o |
| | Upper Heyford | fem | omo | om | om e |
| | Leafield | ofmo | omf | om | oma |
| 4 | Ross-on-Wye | om | om | om | omid |
| 5 | Portland Bill | off | off | ocbc bcm | bc, bcm |
| | Plymouth | bFf | bfmbcf | bcfb | bm |
| | Falmouth | bcf | bcm | bcm | bcc |
| | Scilly (St. Mary's) | bce | cbcb | bbcc | cbcc |
| | Guernsey | oroez | comv | bcbw | bmbcw |
| 6 | Pembroke | fbc | bcc | c | c |
| 7 | Holyhead | bcem | cm | cm mFe | cm |
| | Chester (Sealand) | ofem | cfFe | dise | fbcm |
| 8 | L'pool (Bidston) | Fe | Febf | fcff | bf we |
| 9 | Harrogate | b | b | b | boFFid |
| 10 | Spurn Head | oFF | oFmf | oFF | OFfif |
| | Catterick | cbcFex | Fecm | fe | Fex |
| | Tynemouth | cbcFF | bcff | bcm | bc, cif |
| 11 | Inchkeith | c | c | c | cidc |
| | Leuchars | bexcm | cidbm | bwcm | circ |
| 12 | Renfrew | crrcm | cmbc | bccrc | c |
| | Eskdalemuir | oFdo | ododm | oddm | oddc |
| 13A | Tiree | PR bc | cbcc | fr, rr | rrc |
| 13B | Stornoway | cPR | dc | c | cir |
| 15 | Dalwhinnie | bc | c | · | c |
| | Aberdeen | bccz | cbcb | bz bc | bccr |
| | Wick | cbc | | bcc | crrc |
| 16 | Lerwick | c | cir | bccir | cir |
| 17 | Blacksod Point | cbc | drq | prcq | cq |
| 18 | Malin Head | cbc | bce | bccd | c |
| | Aldergrove | cicm | oddm | od.d.bc | bcc |
| | Donaghadee | bccir | corr | idbc | bc |
| 19 | Birr Castle | cor | orc | c | c |
| 20 | Valentia Obsy. | orrddit | cidc | irc | c |
| | Roches Point | c | c | cbc | bcc |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/so, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
ns/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus R, heavy rain. ro, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ☾, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; –, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than 1/10 of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

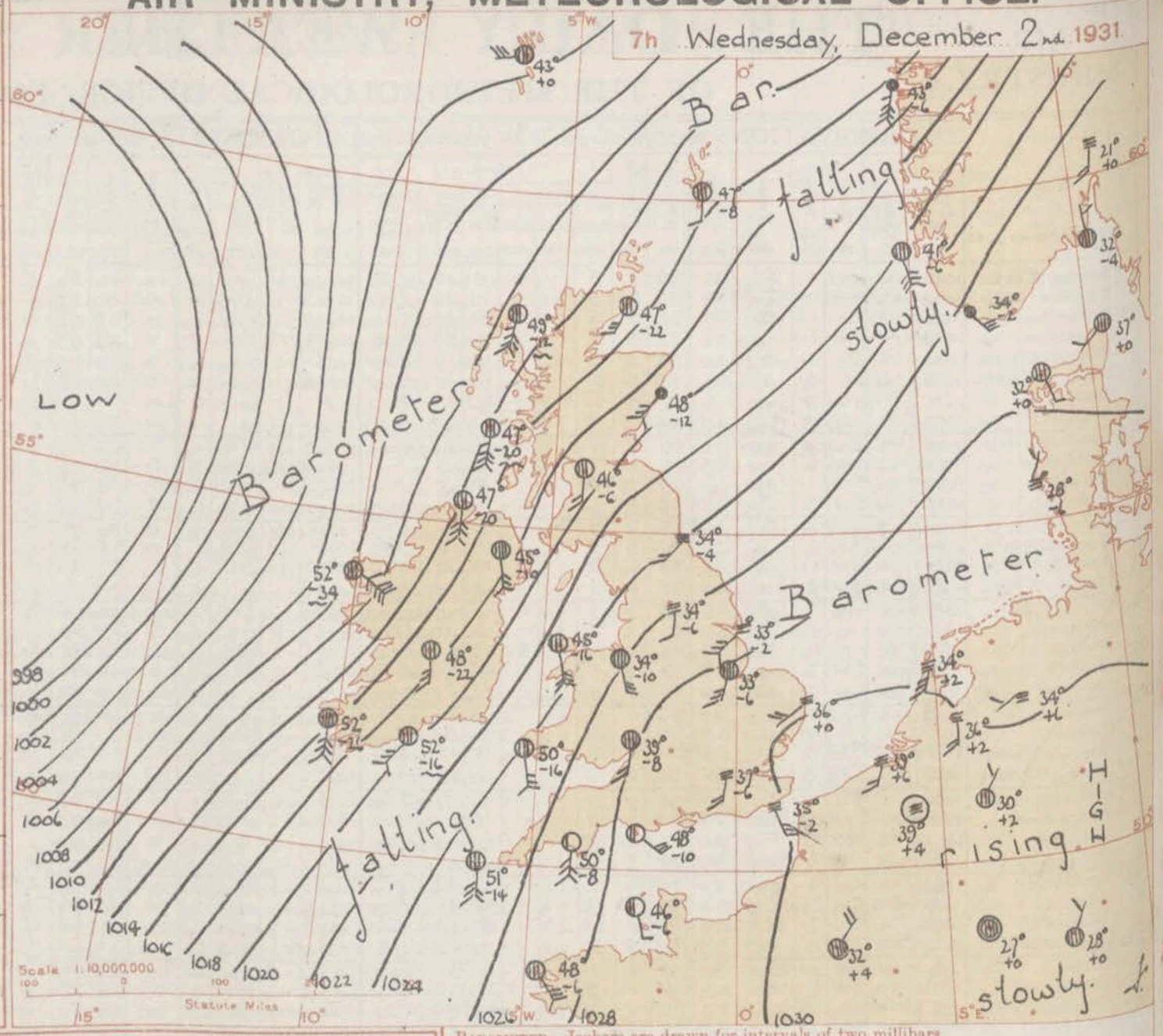
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

# AIR MINISTRY, METEOROLOGICAL OFFICE.

## REPORTS from HEALTH RESORTS for ..... 1st. December ..... 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 30th. to 9h. 1st. | Temperature. Max. 9h.—17h. 1st. | Rainfall. Night. 17h. 30th. to 9h. 1st. | Rainfall. Day. 9h.—17h. 1st. | Sunshine. Sunrise to Sunset. 1st. |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | ofcbc | bcof | 36 | 46 | - | - | 2.5 |
| | Bournemouth | o | o | 40 | 43 | - | - | 0.0 |
| | Ventnor ... | pcuo3 | obco3 | 41 | 44 | Trace | - | 0.5 |
| | Southsea ... | o | o | 40 | 44 | - | - | 0.0 |
| | Bognor Regis | obcc | cbc | 39 | 44 | - | - | 1.7 |
| | Littlehampton | bc | bcb | 38 | 45 | - | - | 3.1 |
| | Worthing ... | cbc | bc | 39 | 46 | Trace | - | 5.4 |
| | Brighton ... | mbc | bcm | 43 | 47 | - | - | 5.6 |
| | Eastbourne† | b | bm | 39 | 47 | Trace | - | 5.9 |
| | Hastings† ... | cmbc | b | 39 | 49 | Trace | - | 5.2 |
| | Folkestone ... | ocmb | bbcbm | 39 | 48 | - | - | 3.7 |
| | Dover... ... | focmb | mbc | 40 | 47 | - | - | 3.7 |
| | Deal ... ... | obc | b | 40 | 47 | - | - | 3.8 |
| | Ramsgate ... | bm | bmf | 41 | 49 | - | - | 3.8 |
| | Margate ... | cbc | bc | 42 | 47 | - | - | 4.3 |
| 2 | Southend ... | cfbc | cfbc | 39 | 46 | - | - | 3.0 |
| | Maldon ... | cb | bcoF | 39 | 45 | - | - | 4.3 |
| | Clacton-on-Sea | cmbc3 | bc3m | 38 | 45 | - | - | 5.3 |
| | Dovercourt ... | foc | fbc | 38 | 48 | - | - | 4.9 |
| | Lowestoft ... | bim | bim | 37 | 44 | - | - | 6.0 |
| | Skegness ... | omF | fom | 37 | 39 | Trace | - | 0.0 |
| | Mablethorpe | bbcm | om | 32 | 39 | - | - | 1.8 |
| | Cleethorpes ... | bfco | com | 31 | 37 | Trace | - | 0.0 |
| 3 | Leamington S. | om | o | 38 | 40 | - | - | 0.0 |
| 4 | Cheltenham† | omcom | om | 37 | 41 | Trace | - | 0.0 |
| 5 | Bath ... ... | mc | mc | 40 | 41 | - | - | 0.0 |
| | Weymouth ... | mo | o | 41 | 41 | - | - | 0.0 |
| | Jersey ... | fc | cf | 47 | 51 | - | - | 0.0 |
| | Torquay ... | cmbcb | mbmw | 39 | 46 | - | - | 5.0 |
| | Penzance ... | bmb | bm | 36 | 52 | - | - | 6.0 |
| | St. Ives ... | b | b | 39 | 51 | - | - | 5.4 |
| | Bude ... ... | m | cmbc | 32 | 49 | - | - | 1.0 |
| | Ilfracombe ... | b | b | 35 | 45 | - | - | 5.9 |
| 6 | Aberystwyth | bbcx | bcbm | 33 | 44 | - | - | 5.6 |
| 7 | Llandudno ... | cbcb | bbcc | 34 | 50 | - | - | 5.0 |
| | Colwyn Bay... | bcb | bbc | 32 | 51 | - | - | 5.3 |
| | Rhyl ... ... | xbcb | b | 30 | 48 | - | - | 4.8 |
| 8 | Wallasey ... | fo | foc | 36 | 39 | - | - | 0.0 |
| | Southport‖ ... | oc | cmbcb | 35 | 39 | 0.2 | - | 0.0 |
| | Blackpool ... | ofo | co | 31 | 39 | 0.2 | - | 0.0 |
| | Morecambe ... | meom | c | 28 | 42 | Trace | - | 0.0 |
| 9 | Ilkley... ... | xfecm | mbccf | 27 | 36 | Trace | - | 0.0 |
| 10 | Berwick-on-T. | cbc | bcc | 30 | 44 | - | - | 2.1 |
| 11 | Dunbar ... | bxhr | bcm | 31 | 50 | 0.3 | - | 4.6 |
| 12 | Douglas ... | cbc | coidc | 39 | 50 | 0.5 | 1 | 0.4 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. - ⊙.
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◑ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊤ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 2nd Dec. 1931. |
|---|---|
| 1. S.E. England<br>2. E. England... | Light variable or southerly wind; some fog, probably clearing later; rather low temperature at first, perhaps milder later. |
| 3. E. Midlands<br>4. W. Midlands | Light or moderate southerly wind; cloudy; fog locally at first; rather low temperature at first, perhaps milder later. |
| 5. S.W. England<br>6. South Wales<br>7. North Wales<br>8. N.W. England | Moderate or fresh south orsouthwest wind, strong locally on coast; mainly cloudy; occasional drizzle locally, or rain later; rather mild. |
| 9. N. Midlands<br>10. N.E. England<br>11. S.E. Scotland | Moderate or fresh south or southwest wind; cloudy; local fog at first; perhaps occasional drizzle; milder. |
| 12. S.W. Scotland & Isle of Man<br>13. A. W. Scotland. B. N.W. Scotland. | Fresh or strong south or southwest wind, gale on coast at times; cloudy; some drizzle or rain; rather mild. |
| 14. Mid-Scotland<br>15. N.E. Scotland<br>16. Orkneys and Shetlands. | Fresh or strong south or southwest wind; cloudy; some rain again later; rather mild. |
| 17. N.W. Ireland<br>18. N.E. Ireland | As 12 - 13. |
| 19. S.E. Ireland | As 4 - 8. |
| 20. S.W. Ireland | As 12 - 13. |

### GENERAL INFERENCE.

An anticyclone on the Continent extends to England. A deep depression centred about 600 miles west of Scotland is moving northeast and is likely to be followed by another disturbance. Weather will be quiet in the Southeast, with some fog, but unsettled in the West and North with strong south or southwest winds near the coast.

### FURTHER OUTLOOK.

Mainly fair and less foggy in the Southeast, unsettled in the North and West.

Time of issue of Gale Warning.

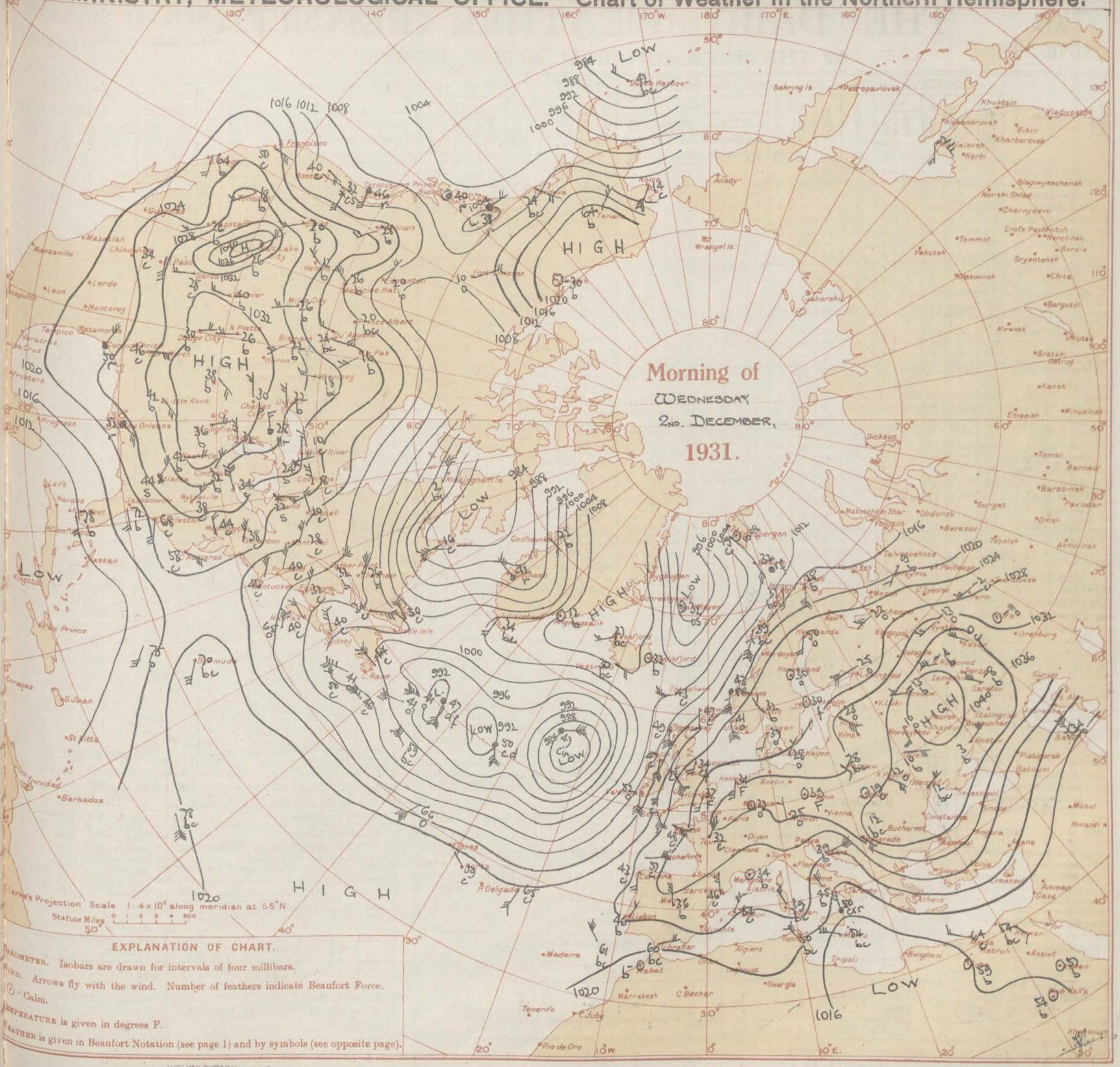
South cone at 1430 on 1st in districts 13, 17 and 20.

Forecasts issued at 1000 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.




## EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ - Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

Page 4.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 2nd December 1931.

No. 25577

OBSERVATIONS at 1 hr. G.M.T. 2nd December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Med. (10) | High (11) | Amount Low 0-10 (12) | Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew)... | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 217 | 1030·6 | -2 | ESE | 1 | o | 41 | 95 | 5 | 5 | - | - | 10 | 10 | 800 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester ... | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot, (S'thmtn) | 8 | 1029·9 | -2 | - | 0 | o | 42 | 85 | 6 | 5 | - | - | 10 | 10 | 800 |
| | Dungeness ... | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne ... | 346 | 1030·5 | +2 | NE | 3 | F | 33 | 95 | 0 | - | - | - | 0 | 0 | - |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston ... | 14 | 1030·0 | 0 | W'S | 1 | F | 35 | 95 | 1 | · | · | · | 10 | 10 | <150 |
| | Cranwell ... | 240 | 1029·5 | -4 | SW'W | 2 | f | 35 | 95 | 3 | 5 | - | · | 10 | 10 | 220 |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield ... | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye ... | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill.... | 32 | 1029·5 | -6 | ENE | 3 | bc | 39 | 95 | 5 | 5 | - | - | 4-6 | 4-6 | 1500 |
| | Plymouth ... | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth ... | 200 | 1028·5 | -6 | SE'S | 4 | c | 50 | 85 | 7 | 8 | 7 | - | 4-6 | 7-8 | 4000 |
| | Scilly (St. Mary's) | 163 | 1027·6 | -12 | SSE | 3 | c | 49 | 85 | 6 | 5 | - | - | 9+ | 9+ | 4000 |
| | Guernsey ... | 175 | 1029·0 | -4 | - | 0 | m | 40 | 95 | 4 | - | - | - | 0 | 0 | - |
| 6 | Pembroke ... | 142 | 1027·6 | -4 | SSE | 4 | bc | 50 | 85 | 8 | 3 | 5 | - | 4-6 | 4-6 | 2500 |
| 7 | Holyhead ... | 26 | 1025·8 | -8 | S | 4 | c | 47 | 95 | 6 | 5 | - | - | 9+ | 9+ | 800 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate ... | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head ... | 29 | 1028·4 | -2 | SW'W | 2 | F | 35 | 95 | 1 | 5 | - | - | 10 | 10 | <150 |
| | Catterick ... | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth ... | 67 | 1026·5 | -4 | SW | 2 | bc | 39 | 95 | 5 | 2 | - | - | 4-6 | 4-6 | 2500 |
| 11 | Inchkeith ... | 190 | 1023·3 | -6 | SW | 2 | c | 48 | 95 | 8 | 5 | 2 | - | 4-6 | 9 | 2500 |
| | Leuchars ... | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew ... | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree ... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway ... | 34 | 1016·7 | -8 | SSW | 2 | c | 45 | 95 | 7 | 4 | 6 | - | 2-3 | 9 | 2500 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen ... | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick ... | 81 | 1019·4 | -2 | SW (~~NW~~) | 3 | c | 45 | 95 | 8 | 5 | 1 | - | 4-6 | 7-8 | 2500 |
| 16 | Lerwick ... | 54 | 1016·7 | -4 | SW | 3 | ir | 47 | 85 | 7 | 6 | 2 | - | 4-6 | 9 | 800 |
| 17 | Blacksod Point | 18 | 1016·1 | -24 | SE | 8 | c | 51 | 75 | 7 | 3 | - | - | 9 | 9 | 800 |
| 18 | Malin Head ... | 52 | 1018·0 | -20 | S | 4 | c | 48 | 95 | 7 | 5 | 7 | - | 2-3 | 9 | 2500 |
| | Aldergrove ... | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee ... | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1020·2 | -10 | S | 7 | o | 49 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 |
| | Roches Point... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

OBSERVATIONS at 7 hr. G.M.T. 2nd December — PAST 24 HOURS.

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Med. (24) | High (25) | Amount Low 0-10 (26) | Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) | Temperature Max. Day 7h-18h °F. (31) | Min. Night 18h-7h °F (32) | Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Night 18h-7h mm. (35) | Sunshine Hrs. (36) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew)... | 1029·7 | -6 | - | 0 | Fo+ | 36 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 1 | * | 43 | 36 | 26 | - | - | 0·0 |
| Croydon | 1029·7 | -6 | SSW | 2 | F | 37 | 96 | 1 | 5 | - | - | 10 | 10 | <150 | 1 | * | 45 | 37 | 37 | Tr | - | 1·1 |
| S. Farnborough | 1029·8 | -2 | - | 0 | c | 33 | 95 | 4 | 5 | - | - | 9+ | 9+ | 800 | 1 | * | 43 | 33 | 23 | Tr | - | 0·0 |
| Winchester | 1029·4 | -2 | SE | 1 | c | 38 | 96 | 5 | 6 | - | - | 9 | 9 | 800 | 1 | * | 43 | 37 | 35 | - | - | 0·0 |
| Boscombe Down | 1029·5 | -6 | ESE | 3 | b | 37 | 95 | 5 | - | - | - | 0 | 0 | - | 1 | * | 41 | 35 | 30 | - | - | * |
| Calshot, (S'thmtn) | 1029·3 | -2 | NNE | 1 | bc | 40 | 96 | 5 | 5 | - | - | 4-6 | 4-6 | 1500 | 0 | 0 | 44 | 38 | 28 | - | - | 0·0 |
| Dungeness | * | * | SSE | 2 | cF+ | * | * | 1 | 8 | - | * | 7-8 | 7-8 | 1600 | * | 1 | 48 | 38/1 | * | - | 0·1 | * |
| Lympne | 1029·8 | -2 | ESE | 3 | f= | 35 | 96 | 2 | - | - | - | 0 | 0 | - | 1 | * | 45 | 31 | 29 | - | 0·3 | 4·1 |
| Shoeburyness | 1030·4 | 0 | - | 0 | F | 37 | 96 | 1 | 5 | - | - | 10 | 10 | <150 | 1 | * | 46 | 35 | 36 | - | - | 4·2 |
| Felixstowe | 1030·0 | 0 | SW | 2 | o | 30 | 95 | 5 | 5 | - | - | 10 | 10 | 800 | 1 | 0 | 45 | 34 | 33 | - | - | 4·8 |
| Gorleston | 1029·9 | 0 | WSW | 2 | f | 36 | 95 | 2 | 6 | - | - | 10 | 10 | <150 | 1 | 1 | 46 | 33 | 33 | - | Tr. | 5·6 |
| Cranwell | 1028·3 | -6 | SSW | 3 | o | 33 | 95 | 5 | 5 | - | - | 10 | 10 | 450 | 1 | * | 38 | 32 | 32 | - | - | 0·0 |
| Birmingham | 1028·3 | +6 | SSW | 3 | id. | 34 | 96 | 5 | 5 | - | - | 10 | 10 | 450 | 1 | * | 38 | 32 | 32 | - | Tr. | 0·0 |
| Upper Heyford | 1029·4 | -4 | SW'S | 2 | o | 35 | 95 | 5 | 5 | - | - | 10 | 10 | 800 | 1 | * | 39 | 35 | 35 | - | - | * |
| Leafield | 1028·9 | -8 | SSW | 3 | o | 34 | 95 | 4 | 5 | - | - | 10 | 10 | 220 | 1 | * | 38 | 34 | 34 | - | 0·1 | 0·0 |
| Ross-on-Wye | 1027·8 | -8 | S | 2 | o | 39 | 95 | 4 | 5 | - | - | 10 | 10 | 800 | 1 | * | 40 | 35 | 35 | - | Tr | 0·0 |
| Portland Bill | 1027·9 | -10 | E'S | 3 | bc | 48 | 85 | 5 | 5 | - | - | 4-6 | 4-6 | 1500 | 1 | 2 | 44 | 38 | * | - | - | * |
| Plymouth | 1026·8 | -8 | S | 5 | b | 50 | 85 | 8 | 1 | - | - | 1 | 1 | 4000 | 1 | 2 | 49 | 35 | 31 | - | - | 5·2 |
| Falmouth | 1025·0 | -8 | S | 6 | c | 49 | 85 | 7 | 8 | 3 | - | 4-6 | 7-8 | 4000 | 0 | 3 | 49 | 42 | * | - | - | 6·6 |
| Scilly (St. Mary's) | 1026·2 | -14 | S'E | 5 | c | 51 | 85 | 7 | 5 | - | - | 7-8 | 7-8 | 4000 | 0 | 2 | 54 | 42 | * | - | - | 6·2 |
| Guernsey | 1028·4 | -6 | SSE | 1 | bc | 46 | 95 | 6 | 8 | 4 | - | 4-6 | 4-6 | 2500 | 0 | 2 | 50 | 40 | 30 | 0·1 | - | 0·2 |
| Pembroke | 1024·0 | -16 | SSE | 4 | c | 56 | 95 | 7 | 4 | 6 | - | 4-6 | 7-8 | 1500 | 0 | 2 | 49 | 47 | * | - | - | 2·2 |
| Holyhead | 1022·5 | -16 | S'E | 5 | c | 45 | 96 | 6 | 5 | - | 9 | 7-8 | 9 | 800 | 1 | 2 | 50 | 45 | 41 | - | - | 1·2 |
| Chester (Sealand) | 1026·6 | -10 | SSE | 3 | o | 34 | 95 | 4 | 5 | - | - | 10 | 10 | 220 | 1 | * | 34 | 32 | 29 | Tr | Tr. | 0·0 |
| L'pool (Bidston) | 1025·7 | -4 | SE | 4 | bf | 32 | 95 | 3 | - | - | - | 0 | 0 | - | 0 | * | 34 | 32 | 31 | Tr | - | 0·0 |
| Harrogate | 1026·3 | -6 | SSW | 1 | F | 34 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 1 | * | 40 | 31 | 27 | - | 0·3 | 3·5 |
| Spurn Head | 1027·2 | -2 | SWW | 4 | if | 33 | 95 | 4 | 5 | 2 | - | 7-8 | 10 | 800 | 0 | 3 | 38 | 33 | * | - | - | 0·0 |
| Catterick | 1026·5 | -10 | SSE | 4 | oF | 32 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 1 | * | 33 | 31 | 30 | Tr | Tr. | * |
| Tynemouth | 1023·9 | -4 | SW | 2 | cf | 34 | 96 | 3 | 5 | - | - | 7-8 | 7-8 | 800 | 1 | 2 | 42 | 33 | 31 | - | - | * |
| Inchkeith | 1021·6 | -10 | SW | 3 | c | 48 | 86 | 7 | 5 | 7 | - | 4-6 | 9+ | 2500 | 0 | 2 | 47 | 46 | 44 | - | Tr. | 2·0 |
| Leuchars | 1021·0 | -10 | SW | 3 | c | 46 | 85 | 7 | 5 | 7 | - | 4-6 | 9+ | 2500 | 1 | * | 45 | 39 | 31 | Tr | 0·3 | 0·9 |
| Renfrew | 1020·9 | -6 | S | 2 | c | 46 | 85 | 7 | 5 | 7 | - | 4-6 | 10 | 1500 | 1 | * | 47 | 43 | 34 | 0·3 | 0·1 | 0·0 |
| Eskdalemuir | 1022·7 | -6 | SSW | 5 | c | 41 | 96 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * | 43 | 41 | 41 | 2 | 6 | 0·0 |
| Tiree | 1013·9 | -20 | S | 7 | c | 47 | 85 | 7 | 5 | 1 | - | 4-6 | 10 | 2500 | 1 | 4 | 50 | 44 | 36 | 1 | 3 | 2·1 |
| Stornoway | 1012·2 | -12 | S | 6 | c | 49 | 95 | 7 | 8 | 2 | - | 7-8 | 10 | 2500 | 1 | 4 | 49 | 43 | * | 3 | 1 | 3·1 |
| Dalwhinnie | 1018·6 | -16 | SSW | 3 | c | 44 | 95 | 6 | 8 | 2 | - | 7-8 | 10 | 1500 | 0+ | * | 44 | 39 | 31 | 1 | - | 0·5 |
| Aberdeen | 1018·5 | -12 | SW | 4 | ir | 48 | 85 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | 1 | 44 | 40 | 36 | - | 0·1 | 1·3 |
| Wick | 1015·1 | -22 | SW | 3 | c | 47 | 95 | 8 | 8 | 2 | - | 7-8 | 10 | 1500 | 1 | 3 | 48 | 40 | * | Tr | 1 | * |
| Lerwick | 1015·8 | -8 | S | 1 | c | 47 | 85 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * | 48 | 46 | * | Tr | 3 | 0·0 |
| Blacksod Point | 1010·1 | -34 | ESE | 8 | q | 52 | 65 | 7 | 6 | - | - | 9 | 9 | 800 | 0 | 5 | 52 | 51 | * | 1 | 4 | * |
| Malin Head | 1013·9 | -20 | S | 6 | c | 47 | 85 | 7 | 5 | 2 | - | 7-8 | 9 | 2600 | 0 | 3 | 47 | 45 | * | - | 0·1 | 1·8 |
| Aldergrove | 1019·6 | -10 | S'E | 4 | c | 45 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * | 46 | 44 | 40 | 1 | 0·1 | 0·0 |
| Donaghadee | 1020·0 | -8 | WSW | 3 | bc | 47 | 76 | 7 | 5 | 2 | - | 4-6 | 4-6 | 2500 | 1 | 2 | 47 | 45 | * | 3 | 0·5 | * |
| Birr Castle | 1016·9 | -22 | S | 3 | c | 48 | 75 | 8 | 3 | 1 | - | 4-6 | 10 | 2500 | 1 | * | 51 | 44 | 31 | 0·1 | - | 0·3 |
| Valentia Obsy.† | 1015·0 | -26 | S | 6 | c | 52 | 75 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * | 53 | 50 | 47 | 2 | 0·1 | 0·0 |
| Roches Point | 1019·6 | -16 | SW | 4 | c | 52 | 86 | 8 | 5 | - | - | 9 | 9 | 2500 | 0 | 5 | 53 | 50 | * | - | - | * |

**LONDON OBSERVATIONS.**

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| Station | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Afternoon | Night | Temperature Day Max. °F. | Night Min. °F. | Min. on Grass °F. | Rainfall Day mm. | Night mm. | Sunshine to Sunset hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | 9h. G.M.T. % (To-day) | Visibility 9h. (To-day) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew | 18 | omoFof | ofom | omom. | 43 | 36 | 26 | - | - | 0.0 | * | * | 1 |
| Croydon | 217 | offbmo | offm | omoFe | 45 | 37 | 37 | Tr. | - | 1.1 | * | * | 1 |
| Greenwich (Royal Observatory) | 149 | bmf | of | of Fe | 44 | 37 | 30 | - | Tr. | 0.0 | 90 | 98 | 1 |
| City (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Westminster (St. James' Park) | 27 | * | * | * | 43 | 38 | 33 | - | - | 0.0 | 88 | 93 | * |
| Regents Pk. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Camden Square | 110 | co | o | * | 41 | 37 | 31 | - | - | * | * | 97 | * |
| Kensington | 80 | om | o | * | 43 | 36 | 28 | - | - | 0.0 | At 18h. 91 | 98 | * |
| Hampstead Observatory | 450 | o | bcof | o | 40 | 34 | 23 | - | - | 0.0 | * | 96 | * |

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 2nd.

| | Max. | Time. | Min. | Time. |
|---|---|---|---|---|
| South Kensington. | 2.0 | 10h 1st | <0.3 | 0-3h 2nd |
| Kew Observatory. | 1.3 | 11h 1st | 0.1 | 5h 2nd |

**FOREIGN OBSERVATIONS.**

| Stations | 18h. G.M.T. 1st December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 2nd December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris | 1029.9 | - | 0 | 3 | 36 | 1031.4 | ENE | 2 | o | 32 | 41 | 32 | - | - |
| Brussels | 1029.4 | WSW | 1 | f | 41 | 1030.4 | - | 0 | F | 39 | 41 | * | - | - |
| Berlin | 1028.8 | W | 1 | F | 21 | | | | | | 27 | | - | |
| Zürich | 1028.6 | NE | 1 | c | 32 | 1030.2 | NE | 1 | 3 | 30 | 36 | 30 | - | - |
| Rome | 1018.9 | SWW | 3 | b | 46 | | | | | | 54 | | - | |

## EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13-18 | 9 | 47-54 |
| 1 | 1-3 | 5 | 19-24 | 10 | 55-63 |
| 2 | 4-7 | 6 | 25-31 | 11 | 64-75 |
| 3 | 8-12 | 7 | 32-38 | 12 | 75 |
| | | 8 | 39-46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | Objects not visible at |
|---|---|
| 0 Dense fog | 55 yards. |
| 1 Thick fog | 220 „ |
| 2 Fog | 550 „ |
| 3 Moderate fog | 1,100 „ |
| 4 Mist or haze | 1¼ miles. |
| 5 Poor visibility | 2½ „ |
| 6 Moderate „ | 6¼ „ |
| 7 Good „ | 12½ „ |
| 8 Very good „ | 31 „ |
| 9 Excellent „ | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | |
|---|---|
| 0 Calm. | 5 Very rough. |
| 1 Smooth. | 6 High. |
| 2 Slight. | 7 Very high. |
| 3 Moderate. | 8 Precipitous. |
| 4 Rough. | 9 Confused. |

TERMS OF SUBSCRIPTION. {Single Copies, 1d. each; by post 1½d. 2/6 per month; 6/6 per quarter; 25/- per year.

METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

Page 1.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 3rd December 1931.

No. 25518

### OBSERVATIONS at 13h. G.M.T. 2nd December

| District | Stations (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) ... | 1027.5 | -24 | - | 0 | bf- | 41 | 95 | 2 | - | 3 | - | 0 | 1 | - |
| | Croydon ... | 1027.6 | -22 | SSW | 3 | bc/f | 43 | 95 | 4 | 5 | 3 | - | 2-3 | 2-3 | 220 |
| | S. Farnborough | 1027.1 | -22 | S'E | 3 | cf | 42 | 95 | 3 | 5 | - | - | 9+ | 9+ | 450 |
| | Winchester ... | 1026.4 | -28 | S'E | 3 | bc/f | 45 | 95 | 5 | 5 | - | - | 4-6 | 4-6 | 2500 |
| | Boscombe Down | 1026.3 | -26 | SE | 3 | b | 44 | 95 | 5 | - | - | 1 | 0 | Tr. | - |
| | Calshot, S'thmtn | 1027.0 | -26 | SE'S | 4 | c | 49 | 85 | 6 | 5 | - | - | 9 | 9 | 1500 |
| | Dungeness ... | * | * | SSE | 3 | c | * | * | 7 | 8 | - | - | 9+ | 9+ | 1500 |
| | Lympne ... | 1028.8 | -18 | S'E | 3 | c | 43 | 95 | 6 | 5 | - | - | 7-8 | 7-8 | 800 |
| 2 | Shoeburyness | 1028.5 | -14 | SSW | 2 | f- | 41 | 95 | 2 | 5 | - | - | 10 | 10 | <150 |
| | Felixstowe ... | 1028.9 | -12 | SW | 2 | o | 42 | 95 | 4 | 5 | - | - | 10 | 10 | 450 |
| | Gorleston ... | 1027.4 | -14 | SW | 3 | f- | 40 | 95 | 3 | 5 | - | - | 10 | 10 | <150 |
| | Cranwell ... | 1026.2 | -20 | S | 3 | o | 37 | 95 | 6 | 5 | - | - | 10 | 10 | 450 |
| 3 | Birmingham ... | 1025.0 | -24 | SSW | 3 | c | 40 | 95 | 4 | 5 | - | - | 9+ | 9+ | 450 |
| | Upper Heyford | 1026.7 | -18 | SSE | 2 | o | 40 | 95 | 4 | 5 | - | - | 10 | 10 | 450 |
| | Leafield ... | 1025.5 | -20 | SE'S | 3 | o | 40 | 95 | 4 | 5 | - | - | 10 | 10 | ~~450~~ 220 |
| 4 | Ross-on-Wye ... | 1024.1 | -20 | SW'S | 3 | c | 45 | 85 | 5 | 5 | 3 | 2 | 1 | 9 | 4000 |
| 5 | Portland Bill ... | 1025.3 | -22 | S | 4 | c | 51 | 75 | 6 | 5 | 7 | - | 4-6 | 7-8 | 1500 |
| | Plymouth ... | 1024.4 | -18 | S | 6 | c | 51 | 85 | 7 | 7 | 3 | - | 4-6 | 9 | 2500 |
| | Falmouth ... | 1023.2 | -14 | S'W | 6 | cq | 52 | 85 | 7 | 3 | 1 | - | 4-6 | 9 | 4000 |
| | Scilly (St. Mary's) | 1022.3 | -20 | S | 6 | c | 52 | 85 | 6 | 5 | - | - | 9 | 9 | 4000 |
| | Guernsey ... | 1026.3 | -16 | S | 3 | bc | 50 | 75 | 6 | 8 | 1 | - | 4-6 | 4-6 | 2500 |
| 6 | Pembroke ... | 1020.8 | -20 | SE | 4 | c | 52 | 95 | 7 | 4 | 6 | - | 4-6 | 7-8 | 1500 |
| 7 | Holyhead ... | 1018.2 | -26 | S | 6 | cq | 50 | 95 | 6 | 5 | - | - | 9+ | 9+ | 1500 |
| | Chester (Sealand) | 1022.2 | -32 | SE'S | 4 | c | 41 | 95 | 6 | 5 | - | 7 | 2-3 | 9 | 450 |
| 8 | L'pool (Bidston) | 1021.1 | -24 | SSE | 5 | c | 39 | 95 | 6 | 5 | 7 | 6 | 4-6 | 7-8 | 2500 |
| 9 | Harrogate ... | 1023.4 | -14 | S | 3 | if | 34 | 95 | 2 | 5 | - | 3 | 9 | 9+ | <150 |
| 10 | Spurn Head ... | 1025.0 | -8 | SW'S | 4 | c | 37 | 95 | 5 | 5 | 2 | - | 4-6 | 9+ | 800 |
| | Catterick ... | 1021.5 | -34 | S | 4 | cf- | 34 | 95 | 3 | - | 7 | - | 0 | 7-8 | - |
| | Tynemouth ... | 1020.4 | -28 | SSW | 2 | c | 37 | 95 | 4 | 5 | - | - | 7-8 | 7-8 | 1500 |
| 11 | Inchkeith ... | 1016.8 | -10 | SSW | 4 | c | 47 | 85 | 7 | 5 | 2 | - | 4-6 | 9+ | 2500 |
| | Leuchars ... | 1016.4 | -22 | S'W | 2 | c | 46 | 85 | 6 | 5 | 1 | - | 9 | 10 | 1500 |
| 12 | Renfrew ... | 1015.6 | -22 | SSE | 3 | c/r | 49 | 85 | 6 | 5 | 7 | 8 | 4-6 | 9+ | 2500 |
| | Eskdalemuir ... | 1018.3 | -24 | S | 4 | o | 39 | 95 | C | 5 | - | - | 10 | 10 | 800 |
| 13A | Tiree ... | 1007.7 | -30 | S | 7 | rr | 47 | 95 | 6 | 6 | 2 | - | 9+ | 10 | 450 |
| 13B | Stornoway ... | 1005.6 | -30 | S | 8 | ir | 47 | 95 | 6 | 6 | 2 | - | 7-8 | 10 | 1500 |
| 15 | Dalwhinnie ... | 1012.5 | -20 | SW | 6 | c | 45 | 65 | 8 | 8 | 1* | 1* | 4-6 | 7-8 | 1500 |
| | Aberdeen ... | 1014.4 | -28 | SSW | 4 | c | 46 | 85 | 6 | 5 | 7 | - | 4-6 | 9+ | 1500 |
| | Wick ... | 1009.2 | -32 | SSW | 6 | c | 49 | 85 | 8 | 5 | 7 | - | 7-8 | 9 | 1500 |
| 16 | Lerwick ... | 1010.1 | -4 | S | 1 | c | 49 | 85 | 6 | 5 | 2 | - | 7-8 | 9+ | 1500 |
| 17 | Blacksod Point | 1005.7 | -20 | S | 7 | cu | 53 | 85 | 7 | 3 | - | - | 10 | 10 | <150 |
| 18 | Malin Head ... | 1008.9 | -22 | S | 6 | c | 49 | 95 | 7 | 5 | 1 | - | 7-8 | 9+ | 1500 |
| | Aldergrove ... | 1013.7 | -26 | S'E | 4 | iro | 49 | 75 | 7 | 6 | 7 | - | 4-6 | 10 | 1500 |
| | Donaghadee ... | 1014.4 | -34 | SSW | 4 | c | 50 | 85 | 7 | 5 | 2 | - | 4-6 | 7-8 | 2500 |
| 19 | Birr Castle ... | 1013.4 | -18 | S | 5 | rr | 49 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 |
| 20 | Valentia Obsy. | 1010.2 | -30 | S'E | 7 | rr | 52 | 95 | 5 | 6 | - | - | 10 | 10 | 800 |
| | Roches Point ... | 1015.2 | -20 | SW | 6 | rr | 52 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 |

### OBSERVATIONS at 18h. G.M.T. 2nd December

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1025.9 | -6 | SSE | 3 | c | 44 | 85 | 7 | 5 | - | - | 9 | 9 | 2500 | 1 | * |
| Croydon | 1026.0 | -2 | S | 3 | bc | 42 | 85 | 6 | 5 | - | - | 2-3 | 2-3 | 1500 | 1 | * |
| S. Farnborough | 1025.2 | -10 | SSE | 3 | c | 43 | 95 | 4 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| Winchester | 1024.7 | -12 | SSE | 3 | bc | 42 | 85 | 7 | - | 1 | - | 0 | 2-3 | - | 1 | * |
| Boscombe Down | 1024.7 | -10 | SE | 3 | c | 41 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| Calshot, S'thmtn | 1025.8 | -4 | SSE | 4 | bc | 46 | 75 | 6 | 5 | - | * | 1 | 2-3 | 4000 | 0 | 2 |
| Dungeness | * | * | SSE | 3 | c | * | * | 7 | 8 | - | * | 9+ | 9+ | 1500 | * | 2 |
| Lympne | 1028.0 | -2 | S | 3 | c | 40 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Shoeburyness | 1027.2 | 0 | S | 4 | b | 42 | 85 | 8 | - | - | - | 0 | 0 | - | 0 | * |
| Felixstowe | 1027.2 | -2 | SW'S | 3 | c | 44 | 85 | 6 | - | - | 2 | 0 | 7-8 | - | 0 | 2 |
| Gorleston | 1026.8 | -4 | SW'W | 3 | bc | 41 | 95 | 5 | 5 | - | - | 4-6 | 4-6 | 2500 | 0 | 1 |
| Cranwell | 1023.1 | -20 | S | 4 | o | 41 | 95 | 5 | 5 | - | - | 10 | 10 | 450 | 1 | * |
| Birmingham | 1022.0 | -14 | S | 3 | c | 42 | 95 | 6 | 5 | - | - | 7-8 | 7-8 | 450 | 1 | * |
| Upper Heyford | 1023.8 | -14 | S | 3 | bc | 42 | 95 | 5 | 5 | - | - | 4-6 | 4-6 | 800 | 0 | * |
| Leafield | 1023.3 | -14 | S'E | 4 | c | 41 | 95 | 6 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| Ross-on-Wye | 1021.7 | -14 | SSW | 5 | cq | 46 | 85 | 5 | 5 | - | - | 9 | 9 | 4000 | 1 | * |
| Portland Bill | 1023.5 | -12 | SSE | 4 | c | 50 | 75 | 6 | 4 | - | - | 10 | 10 | 1500 | 0 | 3 |
| Plymouth | 1022.2 | -6 | S | 6 | c | 51 | 85 | 7 [red correction] | 5 | 7 | - | 7-8 | 9 | 800 | 1 | 4 |
| Falmouth | 1021.0 | -2 | S'W | 7 | c | 51 | 75 | 7 | 5 | 3 | - | 4-6 | 9 | 4000 | 0 | 4 |
| Scilly (St. Mary's) | 1020.2 | -4 | S | 6 | cu | 51 | 95 | 6 | 8 | - | - | 9+ | 9+ | 2500 | 0 | 4 |
| Guernsey | 1025.5 (4.8) | -12 | S | 3 | bo | 46 | 85 | 6 | 8 | 1 | - | 4-6 | 4-6 | 1500 | 0 | 3 |
| Pembroke | 1017.4 | -30 | S | 6 | cro | 52 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | 4 |
| Holyhead | 1014.9 | -18 | SSW | 5 | ido | 52 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | 3 |
| Chester (Sealand) | 1018.8 | -18 | ESE | 4 | o | 44 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| L'pool (Bidston) | 1018.5 | -16 | SE'S | 4 | o | 43 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 0 | * |
| Harrogate | 1020.0 | -14 | S | 3 | b | 40 | 95 | 5 | 5 | - | - | Tr. | Tr. | 2500 | 1 | * |
| Spurn Head | 1022.1 | -4 | SSW | 5 | c | 40 | 95 | 5 | 5 | 2 | - | 4-6 | 9+ | 800 | 0 | 4 |
| Catterick | 1018.7 | -22 | SSE | 3 | f | 38 | 95 | 3 | 5 | - | - | 10 | 10 | 450 | 1 | * |
| Tynemouth | 1017.0 | -20 | SSW | 4 | c | 39 | 95 | 5 | 5 | - | - | 7-8 | 7-8 | 800 | 1 | 2 |
| Inchkeith | 1011.8 | -20 | S | 5 | c | 48 | 85 | 7 | 5 | 2 | - | 4-6 | 9 | 2500 | 0 | 3 |
| Leuchars | 1011.6 | -28 | SSW | 6 | iro | 47 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Renfrew | 1010.6 | -26 | SSE | 3 | roro | 48 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | * |
| Eskdalemuir | 1014.2 | -18 | S'E | 4 | ido | 41 | 85 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| Tiree | 1002.2 | -38 | S'E | 7 | c | 49 | 95 | 6 | 6 | 2 | - | 4-6 | 10 | 1500 | 1 | 4 |
| Stornoway | 999.4 | -28 | S | 8 | c | 50 | 95 | 7 | 9 | 2 | - | 7-8 | 10 | 1500 | 1 | 4 |
| Dalwhinnie | 1009.2 | -22 | SW | 6 | r | 45 | 85 | 6 | 8 | 2 | - | 4-6 | 10 | 1500 | 1 | * |
| Aberdeen | 1011.2 | -22 | S'W | 3 | iro | 48 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 2 |
| Wick | 1005.4 | -32 | SSW | 6 | c | 49 | 85 | 8 | 8 | 1 | 8 | 7-8 | 10 | 2500 | 1 | 4 |
| Lerwick | 1005.6 | -24 | S | 3 | c | 49 | 85 | 6 | 5 | - | - | 9+ | 9+ | 1500 | 0 | * |
| Blacksod Point | 1001.7 | -16 | S | 7 | PR | 53 | 85 | 7 | 3 | - | - | 10 | 10 | <150 | 1 | 5 |
| Malin Head | 1002.2 | -40 | S | 6 | c/d | 50 | 95 | 7 | 6 | 1 | - | 2-3 | 9 | 1500 | 0 | 4 |
| Aldergrove | 1008.3 | -26 | S'E | 5 | rr | 48 | 95 | 7 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| Donaghadee | 1009.9 | -22 | S'W | 6 | iro | 50 | 95 | 6 | 6 | 2 | - | 4-6 | 10 | 800 | 1 | 3 |
| Birr Castle | 1008.9 | -16 | S | 4 | ir | 51 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | * |
| Valentia Obsy. | 1008.2 | -10 | S | 5 | c | 53 | 95 | 8 | 5 | - | - | 9+ | 9+ | 1500 | 1 | 4 |
| Roches Point | 1011.7 | -20 | SW | 6 | rr | 52 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | 6 |

### PAST 24 HOURS.

| Stations | Weather 7h.–13h. 2nd (37) | Weather 13h.–18h. 2nd (38) | Weather 18h 2nd to 1h. 3rd (39) | Weather 1h.–7h. 3rd (40) |
|---|---|---|---|---|
| London (Kew) | bfofbf | bcmocw | ow | cw |
| Croydon | cFFe | bccmo | obmo | bmooq |
| S. Farnborough | Fecf | mbcmbcf | cm | cmcmo |
| Winchester | cmoFF | cmobc | bcbbcbc | como |
| Boscombe Down | bFmo | bmoc | c | corr |
| Calshot, S'thmtn | bmFcm | cbcmo | c | c |
| Dungeness | bc | bc | * | o |
| Lympne | oFcmo | cmo | omo | omo |
| Shoeburyness | oFf | oFb | bbc | c |
| Felixstowe | om | omcfbczo | bczo | c |
| Gorleston | ffeo | focmo | bccmoq | cq |
| Cranwell | omo | mocom | ob mo | ccro |
| Birmingham | ocm | c | c | co |
| Upper Heyford | ofem | omec | co | orrq |
| Leafield | offm | cmo | co | oRq |
| Ross-on-Wye | omcm | cbcc | oq | oqrq |
| Portland Bill | bcczo | czo | c | crrR |
| Plymouth | c | bz | c | corrm |
| Falmouth | cq | cq | cq | Rmoq |
| Scilly (St. Mary's) | bc | cido | c | orr |
| Guernsey | bcwc | bc | bccq | oor |
| Pembroke | c | iroo | iRf | iRo |
| Holyhead | docqmo | doqcmo | ddmoq | rororrq |
| Chester (Sealand) | omcmo | como | oiro | ororo |
| L'pool (Bidston) | febc | cp | coobc | ccido |
| Harrogate | Fbccif | cfcb | boQ | coQrr |
| Spurn Head | ifcz | cmzc | czmc | coq |
| Catterick | Fecmf | bcfcm | ofm | oro |
| Tynemouth | cff | cm | co | oiroq |
| Inchkeith | c | c | cirbc | bccrr |
| Leuchars | cmo | coroqmo | oroqmo | ororqm |
| Renfrew | cmo | cororo | orro | oRRq |
| Eskdalemuir | co | coido | orndd | oddcRRc |
| Tiree | cirrr | rciro | cir | crR |
| Stornoway | cir | ciro | cir | crr |
| Dalwhinnie | c | r | * | rr |
| Aberdeen | oiroc | coiro | ororm o | oro |
| Wick | c | c | ddcbc | bcc |
| Lerwick | c | c | corr | orr |
| Blacksod Point | prq | prq | rrq | prq |
| Malin Head | c | cido | cido | cdoir |
| Aldergrove | cro | crrRR | orr | orRhq |
| Donaghadee | bcc | ciroq | ciroq | crrq |
| Birr Castle | corr | rcoir | c | cirbc |
| Valentia Obsy. | crriro crr | crrc | irorr | iccr |
| Roches Point | corr | orr | oir | oirbc |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/so, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
so/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight: repetition of letters indicates continuity: thus.
R, heavy rain. $r_o$, slight rain.
rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ♁, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/10 of the sky.
"9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

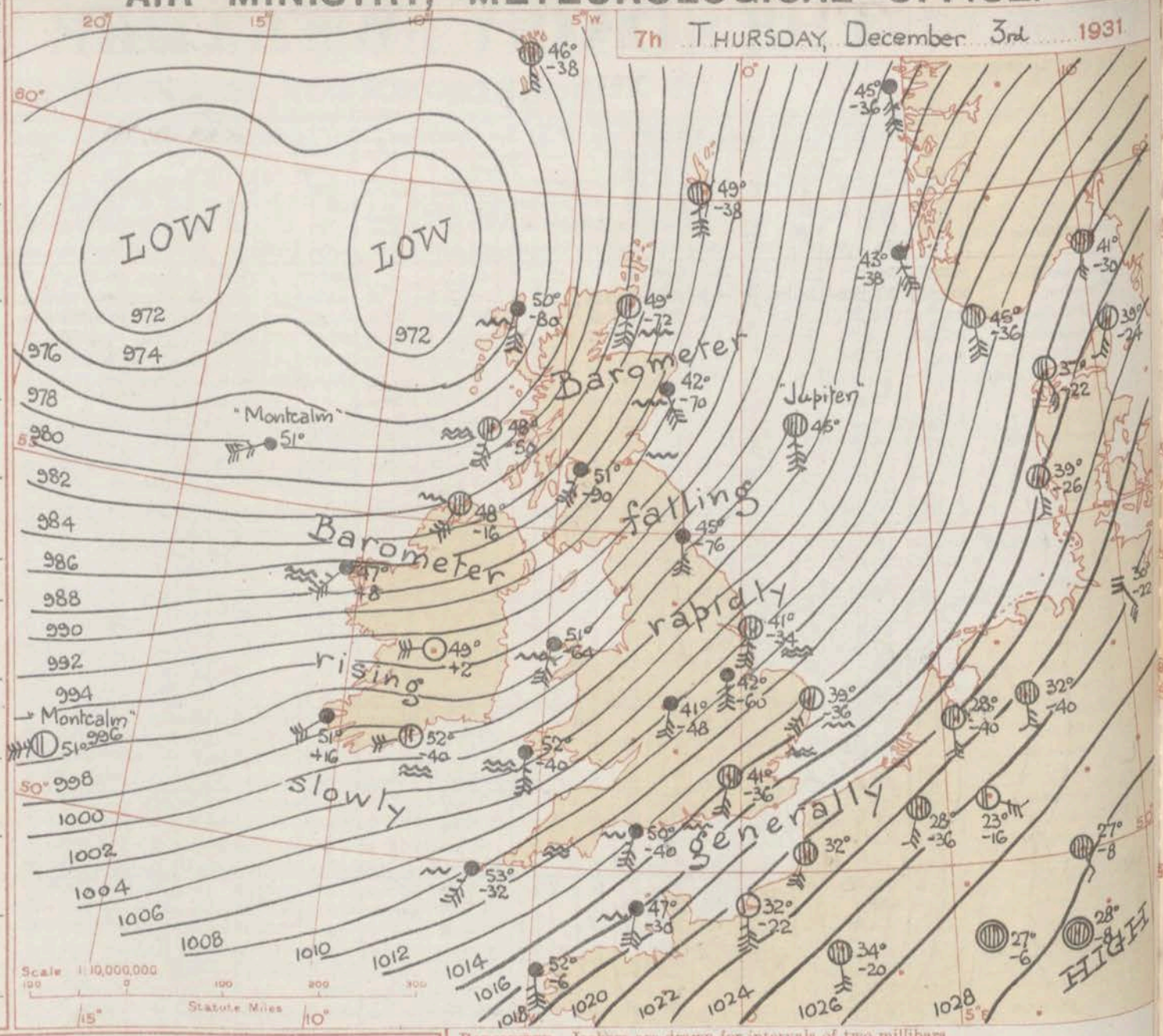
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

# AIR MINISTRY, METEOROLOGICAL OFFICE.

## REPORTS from HEALTH RESORTS for .....2nd. December.....1931.

| Districts. | Stations. | Weather. Fore-noon. | Weather. After-noon. | Temperature. Min. 9h. 1st. to 9h. 2nd. | Temperature. Max. 9h.—17h. ...2nd.... | Rainfall. Night. 17h. 1st. to 9h. 2nd. | Rainfall. Day. 9h.—17h. ...2nd.... | Sunshine. Sunrise to Sunset. ...2nd... |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | ofc | oc | 34 | 43 | Trace | - | 0·1 |
| | Bournemouth | bc | bc | 32 | 50 | - | - | 4·0 |
| | Ventnor ... | cbc | cu | 40 | 49 | - | - | 1·2 |
| | Southsea ... | ofc | c | 38 | 49 | - | - | 0·5 |
| | Bognor Regis | mcbc | bcc | 37 | 48 | - | - | 0·7 |
| | Littlehampton | ofcbc | bcc | 34 | 49 | - | - | 1·6 |
| | Worthing ... | oc | bcc | 37 | 50 | Trace | - | 2·3 |
| | Brighton ... | fc | bcc | 36 | 48 | - | - | 0·2 |
| | Eastbourne† | fcbc | o | 34 | 46 | 0·1 | - | 1·1 |
| | Hastings† ... | cmoc | coc | 33 | 46 | 0·2 | - | 0·4 |
| | Folkestone ... | xofbc | bcco | 33 | 47 | - | - | 1·6 |
| | Dover... ... | Focbc | bcc | 35 | 46 | Trace | - | 1·6 |
| | Deal ... ... | fcbc | b | 34 | 45 | - | - | 3·6 |
| | Ramsgate ... | fbc | bc | 33 | 48 | Trace | Trace | 3·4 |
| | Margate ... | fbc | bc | 32 | 46 | - | - | 5·3 |
| 2 | Southend ... | offob | mb | 36 | 45 | Trace | - | 1·6 |
| | Maldon ... | foc | c | 36 | 42 | - | - | 0·0 |
| | Clacton-on-Sea | om | omcbc | 34 | 45 | - | - | 0·3 |
| | Dovercourt ... | foc | fbc | 35 | 42 | - | - | 0·0 |
| | Lowestoft ... | ocfec | cf | 32 | 44 | - | - | 0·0 |
| | Skegness ... | om. | o | 34 | 42 | Trace | - | 0·0 |
| | Mablethorpe | o | om. | 33 | 39 | - | - | 0·0 |
| | Cleethorpes ... | o | o | 31 | 38 | Trace | - | 0·1 |
| 3 | Leamington S. | o | o | 35 | 43 | - | - | 0·0 |
| 4 | Cheltenham† | cm. | om. | 34 | 47 | - | - | 0·6 |
| 5 | Bath ... ... | cbcc | c | 37 | 49 | - | - | 0·2 |
| | Weymouth ... | cb | bcc | 33 | 52 | - | - | 2·8 |
| | Jersey ... | fbc | bc | 39 | 50 | - | - | 5·3 |
| | Torquay ... | bwm | bbcc | 31 | 53 | - | - | 3·9 |
| | Penzance ... | c | c | 42 | 54 | - | - | 0·2 |
| | St. Ives ... | o | o | 40 | 51 | - | - | 0·0 |
| | Bude ... ... | cbcc | o | 34 | 50 | - | - | 0·9 |
| | Ilfracombe ... | ebc | bcc | 37 | 51 | - | - | 1·4 |
| 6 | Aberystwyth | bmcm | cmcm | 34 | 50 | - | - | 0·2 |
| 7 | Llandudno ... | c | c | 37 | 52 | - | - | 0·1 |
| | Colwyn Bay... | bcc | c | 39 | 52 | Trace | - | 1·2 |
| | Rhyl ... ... | bcm. | bcc | 32 | 49 | - | - | 1·0 |
| 8 | Wallasey ... | cbc | bcc | 33 | 44 | - | - | 0·0 |
| | Southport‖ ... | ocbc | bcco | 34 | 43 | - | - | 0·0 |
| | Blackpool ... | oc | c | 34 | 43 | - | - | 0·0 |
| | Morecambe ... | c | cbbcc | 33 | 44 | - | - | 0·2 |
| 9 | Ilkley... ... | mc | c | 30 | 43 | - | - | 0·0 |
| 10 | Berwick-on-T. | c | o | 35 | 47 | - | - | 0·4 |
| 11 | Dunbar ... | bcc | bc | 39 | 48 | Trace | - | 0·1 |
| 12 | Douglas ... | om. | oidm. | 46 | 51 | 0·3 | Trace | 0·0 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm, -⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 3rd Dec. 1931.

| Districts. | Forecasts |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands | Strong southerly wind, gale on coast at first, veering southwest or west and decreasing; dull and rainy at first, some improvement later; mild. |
| 4. W. Midlands<br>5. S.W. England<br>6. South Wales<br>7. North Wales<br>8. N.W. England | Strong southwest or west wind, moderating temporarily; variable sky; showers or occasional rain; rather mild. |
| 9. N. Midlands<br>10. N.E. England<br>11. S.E. Scotland | As 1 - 3. |
| 12. S.W. Scotland & Isle of Man<br>13. A. W. Scotld. B. N.W. Scotland. | Wind between south and west, strong or gale at first and perhaps again later; variable cloud amount; rain at times, or showers; rather mild. |
| 14. Mid-Scotland<br>15. N.E. Scotland<br>16. Orkneys and Shetlands. | Strong southerly wind, gale locally at first, veering southwest and moderating; dull or cloudy and rain at first; occasional rain and some brighter intervals later; rather mild. |
| 17. N.W. Ireland<br>18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland | As 12 - 13. |

### GENERAL INFERENCE.

A deep complex depression off Northwest Scotland will probably move slowly northeast. Unsettled rather mild weather will be maintained generally, with rain at times or showers. The strong winds or gales from south or southwest will moderate, temporarily at least.

### FURTHER OUTLOOK.

Unsettled.

Time of issue of Gale Warnings.

- S.Cone at 1430 on 1st in districts 13, 17 and 20.
- S.Cone at 1400 on 2nd in districts 5-8, 12, 15, 16, 18 and 19.
- S.Cone at 0740 on 3rd in districts 1, 2, 10 and 11.

Forecasts issued at 1000 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ - Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 3rd December 1931.

No. 26578

### OBSERVATIONS at 1 hr. G.M.T. 3rd December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1022.0 | -20 | S'E | 4 | b | 40 | 85 | 6 | 5 | - | - | Tr | Tr | 2500 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot, (S'thmtn) | 8 | 1021.9 | -26 | S'E | 5 | c | 47 | 85 | 8 | 5 | 2 | - | 4-6 | 10 | 2500 |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1024.9 | -16 | SW | 5 | o | 37 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1022.9 | -22 | SW | 3 | c | 40 | 95 | 7 | 4 | - | - | 10 | 10 | 2500 |
| | Cranwell | 240 | 1017.4 | -28 | S'E | 5 | c | 40 | 95 | 6 | 5 | - | - | 9+ | 9+ | 800 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1018.6 | -28 | S | 5 | c | 49 | 75 | 7 | 4 | - | - | 10 | 10 | 1500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1015.2 | -12 | SSW | 7 | q | 52 | 85 | 7 | 8 | - | - | 4-6 | (4-6) | 4000 |
| | Scilly (St. Mary's) | 163 | 1013.5 | -30 | S'W | 7 | o | 52 | 95 | 6 | 5 | - | - | 10 | 10 | 4000 |
| | Guernsey | 175 | 1022.3 | -16 | S'W | 5 | o | 44 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 |
| 6 | Pembroke | 142 | 1009.8 | -30 | S'E | 8 | df | 51 | 95 | 3 | . | . | . | 10 | 10 | <150 |
| 7 | Holyhead | 26 | 1008.0 | -34 | SSW | 6 | dd | 50 | 95 | 5 | 6 | - | - | 10 | 10 | 450 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1016.5 | -14 | SSW | 6 | c | 42 | 95 | 7 | 4 | 5 | - | 3-6 | 7-8 | 1500 |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1008.9 | -36 | S | 5 | o | 44 | 85 | 6 | 6 | - | - | 10 | 10 | 1500 |
| 11 | Inchkeith | 190 | 1003.5 | -34 | SW | 6 | bc | 50 | 75 | 8 | 5 | 4 | - | 2-3 | 4-6 | 2500 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 989.6 | -38 | S | 8 | o/r | 51 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 995.5 | -24 | SSW | 6 | bc | 48 | 95 | 8 | 8 | 1 | 1 | 2-3 | 4-6 | 2500 |
| 16 | Lerwick | 54 | 997.9 | -28 | S | 7 | rr | 48 | 95 | 6 | 6 | - | - | 10 | 10 | 800 |
| 17 | Blacksod Point | 18 | 990.8 | -70 | S | 8 | RR | 52 | 95 | 6 | 6 | - | - | 10 | 10 | <150 |
| 18 | Malin Head | 52 | 992.5 | -58 | S | 7 | id. | 51 | 95 | 7 | 6 | 1 | - | 4-6 | 10 | 1500 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 996.5 | -46 | S | 7 | RR | 48 | 95 | 5 | 6 | - | - | 10 | 10 | 1500 |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 3rd December

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1013.1 | -40 | SSW | 5 | c | 42 | 85 | 7 | 4 | 1 | - | 7-8 | 10 | 1500 | 1 | * |
| Croydon | 1014.1 | -36 | SSW | 5 | c | 41 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| S. Farnborough | 1012.7 | -34 | S | 5 | c | 42 | 85 | 5 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| Winchester | 1012.5 | -40 | S'W | 6 | ir | 44 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| Boscombe Down | 1011.5 | -40 | S | 6 | rr | 45 | 95 | 4 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| Calshot, (S'thmtn) | 1014.6 | -34 | S | 7 | c | 46 | 85 | 7 | 5 | 7 | - | 4-6 | 10 | 2500 | 0 | 4 |
| Dungeness | * | * | SSW | 5 | c | * | * | 6 | 8 | - | * | 9+ | 9+ | 1500 | * | 3 |
| Lympne | 1017.4 | -24 | SSW | 6 | o | 38 | 85 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| Shoeburyness | 1014.9 | -30 | S'E | 6 | c | 40 | 85 | 7 | 5 | 2 | - | 7-8 | 9+ | 1500 | 0 | * |
| Felixstowe | 1014.1 | -50 | SSW | 7 | c | 40 | 85 | 7 | 5 | - | - | 10 | 10 | 800 | 0 | 5 |
| Gorleston | 1011.6 | -36 | SW'S | 6 | c | 39 | 85 | 6 | 4 | - | - | 9+ | 9+ | 2500 | 0 | 4 |
| Cranwell | 1006.5 | -60 | S | 7 | ir | 42 | 95 | 7 | 6 | 2 | - | 7-8 | 10 | 450 | 1 | * |
| Birmingham | 1005.1 | -48 | S | 5 | ir | 45 | 95 | 8 | 6 | - | - | 10 | 10 | 450 | 1 | * |
| Upper Heyford | 1009.2 | -46 | S | 7 | rr | 42 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| Leafield | 1008.4 | -46 | S | 7 | RR | 43 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| Ross-on-Wye | 1005.0 | -36 | SSW | 5 | rr | 48 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | * |
| Portland Bill | 1011.8 | -40 | S'W | 7 | RR | 50 | 85 | 7 | 4 | - | - | 10 | 10 | 1500 | 1 | 4 |
| Plymouth | 1009.8 | -32 | S'W | 8 | rr | 52 | 95 | 6 | 6 | - | - | 10 | 10 | 450 | 1 | 6 |
| Falmouth | 1007.0 | -16 | SW'S | 8 | RR | 52 | 95 | 6 | 6 | - | - | 10 | 10 | 2500 | 2 | 5 |
| Scilly (St. Mary's) | 1007.2 | -32 | SW'S | 7 | rr | 53 | 95 | 6 | 6 | - | - | 10 | 10 | 2500 | 1 | 4 |
| Guernsey | 1014.5 | -30 | S'W | 6 | rr | 47 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | 4 |
| Pembroke | 1000.1 | -40 | S | 8 | iR | 52 | 95 | 6 | 5 | - | - | 10 | 10 | <150 | 1 | 5 |
| Holyhead | 994.2 | -64 | SSW | 8 | rr | 51 | 95 | 5 | 6 | 2 | - | 9+ | 10 | 800 | 1 | 4 |
| Chester (Sealand) | 998.5 | -62 | SSE | 6 | rr | 48 | 95 | 7 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| L'pool (Bidston) | 997.1 | -56 | SSE | 5 | id. | 47 | 95 | 8 | 9 | - | - | 9+ | 9+ | 2500 | 1 | * |
| Harrogate | 1000.4 | -74 | SSE | 6 | rr | 44 | 95 | 7 | 8 | - | - | 10 | 10 | 2500 | 1 | * |
| Spurn Head | 1004.1 | -34 | SSW | 8 | q | 41 | 95 | 6 | - | 2 | - | 0 | 10 | - | 0 | 5 |
| Catterick | 997.9 | -74 | SSE | 5 | rr | 44 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| Tynemouth | 996.4 | -76 | S | 6 | rr | 45 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | 3 |
| Inchkeith | 981.1 | -78 | SSW | 8 | rr | 50 | 85 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | 4 |
| Leuchars | 988.2 | -84 | SSE | 7 | rr | 45 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 2 | * |
| Renfrew | 984.1 | -90 | SSW | 7 | RR | 51 | 85 | 6 | 6 | - | - | 10 | 10 | 800 | 2 | * |
| Eskdalemuir | 990.2 | -96 | SSW | 5 | RR | 43 | 95 | 6 | 6 | 2 | - | 9+ | 10 | 800 | 2 | * |
| Tiree | 977.3 | -50 | SSW | 7 | c/r | 48 | 85 | 7 | 5 | 7 | 8 | 4-6 | 9+ | 1500 | 1 | 5 |
| Stornoway | 974.3 | -80 | S | 7 | rr | 50 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 2 | 4 |
| Dalwhinnie | 983.5 | -36 | S | 7 | RR | 46 | 95 | 5 | 3 | 2 | - | 4-6 | 10 | 800 | 1 | * |
| Aberdeen | 988.0 | -70 | SSE | 6 | rr | 48 | 85 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | 4 |
| Wick | 982.6 | -72 | S | 8 | c | 49 | 85 | 8 | 8 | 2 | - | 7-8 | 10 | 1500 | 1 | 4 |
| Lerwick | 987.2 | -38 | S | 7 | c | 49 | 85 | 7 | 5 | 2 | - | 7-8 | 9+ | 1500 | 0 | * |
| Blacksod Point | 986.1 | +8 | SW'W | 7 | PR | 47 | 75 | 7 | 3 | - | - | 10 | 10 | 450 | 2 | 5 |
| Malin Head | 981.5 | -16 | SW | 6 | c/r | 48 | 75 | 7 | 6 | 1 | - | 4-6 | 9+ | 1500 | 1 | 4 |
| Aldergrove | 987.9 | -40 | SSW | 4 | rr | 46 | 85 | 7 | 6 | 3 | - | 7-8 | 9 | 800 | 1 | * |
| Donaghadee | 987.6 | -34 | SSW | 7 | rr | 47 | 85 | 7 | 6 | 2 | - | 7-8 | 10 | 800 | 1 | 3 |
| Birr Castle | 992.5 | +2 | W | 6 | b | 49 | 75 | 8 | - | - | - | 0 | 0 | - | 1 | * |
| Valentia Obsy.† | 997.5 | +16 | SW'W | 6 | ir | 51 | 75 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | * |
| Roches Point | 998.0 | -40 | W | 5 | bc | 52 | 85 | 8 | 3 | - | - | 2-3 | 2-3 | 1500 | 1 | 6 |

### PAST 24 HOURS.

| Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F (32) | Temperature Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 2nd Hrs. (36) |
|---|---|---|---|---|---|---|
| London (Kew) | 45 | 40 | 38 | - | Tr | 0.2 |
| Croydon | 44 | 39 | 37 | Tr | - | 1.0 |
| S. Farnborough | 44 | 41 | 40 | Tr | - | 0.5 |
| Winchester | 47 | 40 | 37 | - | Tr | 0.0 |
| Boscombe Down | 45 | 40 | 39 | - | 1 | * |
| Calshot, (S'thmtn) | 49 | 45 | 40 | - | - | 1.5 |
| Dungeness | 44 | 38 | * | Tr | - | * |
| Lympne | 44 | 36 | 35 | Tr | - | 1.2 |
| Shoeburyness | 44 | 37 | 39? | - | - | 1.8 |
| Felixstowe | 44 | 38 | 36 | - | - | 0.0 |
| Gorleston | 43 | 34 | 32 | - | - | 0.0 |
| Cranwell | 41 | 39 | 37 | - | Tr | 0.0 |
| Birmingham | 43 | 42 | 39 | - | 1 | 0.0 |
| Upper Heyford | 43 | 41 | 39 | - | 0.3 | * |
| Leafield | 43 | 41 | 39 | - | 0.3 | 0.2 |
| Ross-on-Wye | 47 | 45 | 43 | - | 1 | 0.1 |
| Portland Bill | 52 | 48 | * | - | 0.1 | * |
| Plymouth | 52 | 50 | 48 | - | 3 | 1.1 |
| Falmouth | 52 | 50 | * | - | 7 | 0.3 |
| Scilly (St. Mary's) | 53 | 50 | * | Tr | 5 | 0.4 |
| Guernsey | 50 | 43 | 39 | - | 0.5 | 3.5 |
| Pembroke | 52 | 50 | * | 0.2 | 5 | 0.0 |
| Holyhead | 52 | 49 | 48 | Tr | 15 | 0.0 |
| Chester (Sealand) | 44 | 44 | 42 | - | 1 | 0.0 |
| L'pool (Bidston) | 43 | 42 | 42 | - | 0.1 | 0.0 |
| Harrogate | 40 | 40 | 37 | - | 1 | 0.0 |
| Spurn Head | 40 | 39 | * | - | - | 0.0 |
| Catterick | 39 | 38 | 36 | 0.1 | 2 | * |
| Tynemouth | 39 | 39 | 33 | - | 0.3 | 0.0 |
| Inchkeith | 50 | 48 | 40 | - | Tr | 0.0 |
| Leuchars | 48 | 45 | 44 | Tr | 3 | 0.0 |
| Renfrew | 49 | 48 | 46 | 2 | 21 | 0.0 |
| Eskdalemuir | 44 | 39 | 39 | Tr | 23 | 0.0 |
| Tiree | 50 | 47 | 44 | 2 | 6 | 0.0 |
| Stornoway | 51 | 49 | * | 1 | 8 | 0.0 |
| Dalwhinnie | 46 | 39 | 33 | 2 | 19 | 0.0 |
| Aberdeen | 48 | 46 | 44 | 0.1 | 1 | 0.0 |
| Wick | 50 | 47 | * | - | Tr | 0.0 |
| Lerwick | 49 | 48 | * | - | 3 | 0.0 |
| Blacksod Point | 54 | 46 | * | 3 | 43 | * |
| Malin Head | 50 | 47 | * | 0.2 | 5 | 0.1 |
| Aldergrove | 49 | 45 | 43 | 5 | 7 | 0.0 |
| Donaghadee | 50 | 46 | * | 2 | 9 | * |
| Birr Castle | 51 | 49 | 43 | 3 | 8 | 0.0 |
| Valentia Obsy.† | 53 | 51 | 47 | 7 | 13 | 0.0 |
| Roches Point | 53 | 50 | * | 10 | 8 | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon, 9h—18h, Kensington. 9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon (24 hrs. ended 9h.) | Weather Night (24 hrs. ended 9h.) | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. (To-day) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew | 18 | bfofbf | bcmcw | cw | 45 | 40 | 38 | - | Tr | 0.2 | * | * | 6 |
| Croydon | 217 | cFFe | bccm | obmqq | 44 | 39 | 37 | Tr | - | 1.0 | * | * | 6 |
| Greenwich (Royal Observatory) | 149 | FebF | bfccd | cr | 46 | 38 | 32 | - | 1 | 1.6 | 90 | 92 | 6 |
| City (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0.1 | * | * | * |
| Westminster (St. James' Park) | 27 | * | * | * | 46 | 41 | 38 | <-1.9-> | | 0.9 | 87 | 87 | * |
| Regents Pk. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Camden Square | 110 | F | bc | * | 45 | 41 | 37 | - | 2 | * | * | 92 | * |
| Kensington | 80 | ombc | bc | * | 45 | 41 | 37 | - | 2 | 0.2 | At 18h. 84 | 95 | * |
| Hampstead Observatory | 450 | omc | oF | * | 44 | 36 | 35 | - | 2 | 0.0 | * | 95 | * |

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 3rd

| South Kensington Max. | Time | Min. | Time | Kew Observatory Max. | Time | Min. | Time |
|---|---|---|---|---|---|---|---|
| 2.3 | 9hrs 2nd | Nil | 0/6hr 3rd | 1.3 | 11h. 2nd | 0.1 | 1h. 3rd |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 2nd December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 3rd December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris | 1029.4 | ENE | 3 | o | 32 | 1024.3 | S | 5 | o | 34 | 34 | 28 | - | - |
| Brussels | 1029.0 | ESE | 2 | o | 39 | 1022.0 | SSW | 4 | o | 28 | 43 | 25 | - | - |
| Berlin | 1029.7 | - | o | sF | 32 | 1026.3 | - | o | F | 31 | 32 | 30 | Tr | Tr |
| Zürich | 1029.2 | NE | 1 | o | 31 | 1027.5 | WSW | 1 | o | . | 34 | 21 | - | - |
| Rome | 1021.7 | N | 2 | b | 46 | | NW'N | 3 | bc | 50 | 52 | . | - | - |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.** The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.** The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13–18 | 9 | 47–54 |
| 1 | 1–3 | 5 | 19–24 | 10 | 55–63 |
| 2 | 4–7 | 6 | 25–31 | 11 | 64–75 |
| 3 | 8–12 | 7 | 32–38 | 12 | 75 |
| | | 8 | 39–46 | | |

**COLUMNS 34, 35.** Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | | Objects not visible at |
|---|---|---|
| 0 | Dense fog | 55 yards. |
| 1 | Thick fog | 220 " |
| 2 | Fog | 550 " |
| 3 | Moderate fog | 1,100 " |
| 4 | Mist or haze | 1½ miles. |
| 5 | Poor visibility | 2½ " |
| 6 | Moderate " | 6½ " |
| 7 | Good " | 12½ " |
| 8 | Very good " | 31 " |
| 9 | Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | | | |
|---|---|---|---|
| 0 | Calm. | 5 | Very rough. |
| 1 | Smooth. | 6 | High. |
| 2 | Slight. | 7 | Very high. |
| 3 | Moderate. | 8 | Precipitous. |
| 4 | Rough. | 9 | Confused. |

TERMS OF SUBSCRIPTION. Single Copies, 1d. each; by post 1½d. 2/6 per month; 6/6 per quarter; 25/- per year.

METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1-hr observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 4th December 1931.

No. 25579

### OBSERVATIONS at 13h. G.M.T. 3rd December

| District | Stations. (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0-12 (4) | Weather. (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud. Form. Low. (9) | Form. Med. (10) | Form. High (11) | Amount. Low 0-10 (12) | Amount. Total 0-10 (13) | Height of Base. (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1003·6 | -5·0 | SSW | 6 | r. r. | 50 | 95 | 6 | 7 | - | - | 10 | 10 | 800 |
| | Croydon | 1004·6 | -4·6 | SSW | 6 | d. d. | 49 | 95 | 5 | 6 | - | - | 10 | 10 | 450 |
| | S. Farnborough | 1003·7 | -4·6 | SSW | 6 | r. r. | 52 | 95 | 6 | 6 | 2 | - | 9+ | 10 | 800 |
| | Winchester | 1004·4 | -3·0 | SW | 6 | rr | 53 | 95 | 6 | 6 | - | - | 10 | 10 | 450 |
| | Boscombe Down | 1004·4 | -2·8 | SW | 6 | c | 53 | 85 | 8 | 5 | - | - | 10 | 10 | 450 |
| | Calshot, S'thmtn | 1006·3 | -3·8 | SSW | 7 | r. r. | 53 | 95 | 5 | 6 | - | - | 10 | 10 | 800 |
| | Dungeness | * | * | SSW | 7 | c | * | * | 5 | 8 | 2 | - | 9 | 9+ | 800 |
| | Lympne | 1008·4 | -5·2 | SW'S | 7 | dd | 46 | 95 | 5 | 6 | - | - | 10 | 10 | 220 |
| 2 | Shoeburyness | 1004·2 | -6·0 | SSW | 7 | oq | 48 | 95 | 7 | 5 | - | - | 10 | 10 | 800 |
| | Felixstowe | 1004·9 | -4·8 | SW'S | 7 | rr | 45 | 95 | 6 | 6 | - | - | 10 | 10 | 800 |
| | Gorleston | 1001·9 | -5·0 | SW | 7 | o/r | 43 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 |
| | Cranwell | 996·8 | -3·4 | SW'W | 5 | bc/prh | 49 | 85 | 8 | 9 | - | - | 2·3 | 2·3 | 1500 |
| 3 | Birmingham | 1000·0 | -1·0 | WSW | 6 | phr | 52 | 75 | 8 | 6 | 2 | - | 7·8 | 9+ | 800 |
| | Upper Heyford | 1001·2 | -3·4 | W | 5 | c/r | 52 | 85 | 8 | 5 | 2 | - | 4·6 | 9+ | 800 |
| | Leafield | 1001·8 | -2·6 | SW'W | 5 | c | 51 | 85 | 9 | 6 | 2 | - | 4·6 | 10 | 800 |
| 4 | Ross-on-Wye | 1001·2 | -·8 | W'S | 5 | cq | 53 | 65 | 8 | 6 | 1 | - | 4·6 | 10 | 2500 |
| 5 | Portland Bill | 1005·3 | -2·0 | SW'W | 8 | cR | 54 | 95 | 6 | 5 | 2 | - | 7·8 | 10 | 1500 |
| | Plymouth | 1007·1 | +2·2 | SW | 6 | bc | 54 | 95 | 6 | 6 | 7 | - | 4·6 | 10 | 450 |
| | Falmouth | 1007·3 | +3·8 | WSW | 5 | cq | 54 | 95 | 7 | 3 | 1 | - | 4·6 | 10 | 4000 |
| | Scilly (St. Mary's) | 1007·8 | +3·8 | WSW | 5 | cjp | 54 | 95 | 6 | 8 | 2 | - | 4·6 | 9+ | 2500 |
| | Guernsey | 1010·9 | -2·0 | SW | 7 | rr | 54 | 95 | 4 | 6 | - | - | 10 | 10 | 1500 |
| 6 | Pembroke | 1000·4 | 0 | SW | 8 | cR | 52 | 85 | 6 | 5 | - | - | 10 | 10 | 150 |
| 7 | Holyhead | 996·2 | +6·0 | WSW | 7 | bcq | 51 | 65 | 7 | 4 | 3 | 9 | Tr | 2·3 | 2500 |
| | Chester (Sealand) | 996·5 | +2·0 | WSW | 5 | bc | 53 | 65 | 8 | 8 | - | - | 2·3 | 2·3 | 4000 |
| 8 | L'pool (Bidston) | 994·3 | 0 | W | 8 | ~~bcq~~ bq | 51 | 55 | 8 | 1 | - | 8 | Tr | ~~4·6~~ Tr | 4000 |
| 9 | Harrogate | 993·7 | -6·0 | SW | 8 | oq | 49 | 65 | 8 | 6 | - | - | 7·8 | 7·8 | 2500 |
| 10 | Spurn Head | 995·1 | -4·0 | WSW | 4 | c/r | 50 | 95 | 7 | 3 | 4 | 9 | 2·3 | 7·8 | 4000 |
| | Catterick | 990·9 | -2·2 | WSW | 5 | pr. | 51 | 75 | 7 | 8 | - | - | 4·6 | 4·6 | 2500 |
| | Tynemouth | 987·9 | -2·4 | WSW | 5 | bc | 50 | 95 | 7 | 9 | - | - | 2·3 | 2·3 | 2500 |
| 11 | Inchkeith | 980·6 | -3·6 | WSW | 8 | rr | 48 | 95 | 7 | 6 | 2 | - | 4·6 | 10 | 1500 |
| | Leuchars | 980·6 | -3·0 | S | 5 | ir. | 47 | 75 | 7 | 6 | - | - | 10 | 10 | 1500 |
| 12 | Renfrew | 980·8 | -3·8 | WSW | 6 | rr | 46 | 95 | 6 | 6 | - | - | 10 | 10 | 800 |
| | Eskdalemuir | 985·2 | -3·0 | SW | 7 | rr | 45 | 85 | 6 | 8 | 2 | - | 9+ | 0 | 800 |
| 13A | Tiree | 975·8 | +1·4 | WSW | 8 | ir. | 51 | 85 | 6 | 8 | 7 | - | 9 | 9+ | 800 |
| 13B | Stornoway | 966·6 | -4·0 | SW | 4 | c/r | 47 | 95 | 8 | 9 | - | - | 9+ | 9+ | 1500 |
| 15 | Dalwhinnie | 974·8 | -3·8 | SSW | 6 | RR | 40 | 95 | 6 | 8 | 2 | - | 10 | 10 | 4000 |
| | Aberdeen | 977·1 | -3·2 | SSW | 4 | bc | 43 | 75 | 7 | 1 | 7 | - | 1 | 2·3 | 1500 |
| | Wick | 972·3 | -2·0 | S | 6 | bc | 48 | 85 | 8 | 8 | 7 | 8 | 4·6 | 4·6 | 2500 |
| 16 | Lerwick | 972·2 | -7·2 | S | 8 | rr | 48 | 95 | 6 | 6 | - | - | 10 | 10 | 800 |
| 17 | Blacksod Point | 991·6 | +3·0 | WSW | 8 | pr | 51 | 85 | 6 | 3 | - | - | 10 | 10 | 450 |
| 18 | Malin Head | 983·2 | +4·0 | W | 8 | bcjp | 51 | 75 | 5 | 3 | - | 9 | 4·6 | 4·6 | 1500 |
| | Aldergrove | 987·9 | +6·0 | SW'S | 6 | cjp | 49 | 75 | 6 | 9 | 3 | - | 4·6 | 7·8 | 1500 |
| | Donaghadee | 985·7 | -1·0 | SW | 8 | pr | 50 | 85 | 7 | 9 | - | - | 2·3 | 2·3 | 1500 |
| 19 | Birr Castle | 995·8 | +1·8 | SW | 6 | c/pr | 49 | 85 | 7 | 8 | 7 | < | 4·6 | 10 | 1500 |
| 20 | Valentia Obsy. | 1001·8 | +1·8 | SW'W | 6 | c | 53 | 85 | 8 | 5 | 2 | - | 7·8 | 10 | 2500 |
| | Roches Point | 1001·6 | +1·6 | W | 3 | 0 | 52 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 |

### OBSERVATIONS at 18h. G.M.T. 3rd December

| District | Stations. | Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind. Direc. (17) | Wind. Force 0-12 (18) | Weather. (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud. Form. Low. (23) | Form. Med. (24) | Form. High. (25) | Amount. Low. 0-10 (26) | Amount. Total 0-10 (27) | Height of Base (feet) (28) | State of Ground. 0-9 (29) | Sea. 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1004·6 | +1·6 | SW'W | 4 | c | 52 | 75 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Croydon | 1004·7 | +1·4 | WSW | 5 | c | 52 | ~~75~~ 85 | 7 | 5 | 2 | - | 4·6 | 10 | 1500 | 1 | * |
| | S. Farnborough | 1005·4 | +2·0 | WSW | 5 | c | 51 | 85 | 8 | 5 | 2 | - | 9 | 10 | 1500 | 1 | * |
| | Winchester | 1006·6 | +1·4 | SW | 3 | c | 51 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Boscombe Down | 1006·2 | +1·8 | WSW | 4 | c | 50 | 85 | 7 | - | 7 | - | 0 | 9+ | - | 1 | * |
| | Calshot, S'thmtn | 1008·9 | +·8 | SW'W | 4 | c | 53 | 85 | 7 | 5 | 7 | - | 4·6 | 10 | 4000 | 1 | 2 |
| | Dungeness | * | * | SSW | 6 | c | * | * | 6 | 5 | - | * | 7·8 | 9+ | 800 | * | 4 |
| | Lympne | 1006·2 | +1·4 | WSW | 5 | c | 51 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 2 | Shoeburyness | 1004·2 | +1·6 | W'S | 4 | c | 52 | 75 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Felixstowe | 1002·9 | +·4 | W | 4 | c | 52 | 65 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | 5 |
| | Gorleston | 1000·4 | +·6 | W | 4 | c | 50 | 85 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | 4 |
| | Cranwell | 999·4 | +1·0 | WSW | 4 | b | 46 | 85 | 6 | - | 3 | - | 0 | Tr | - | 1 | * |
| 3 | Birmingham | 1002·8 | +1·6 | WSW | 3 | c | 49 | 75 | 8 | 5 | - | - | 7·8 | 7·8 | 2500 | 1 | * |
| | Upper Heyford | 1003·8 | +2·0 | WSW | 5 | c | 49 | 85 | 7 | 5 | 1 | - | 4·6 | 10 | 1500 | 1 | * |
| | Leafield | 1003·9 | +1·4 | WSW | 5 | bc | 48 | 85 | 8 | - | 2 | - | 0 | 4·6 | - | 1 | * |
| 4 | Ross-on-Wye | 1003·3 | +1·2 | WSW | 5 | cq | 52 | 65 | 7 | 6 | 1 | - | 7·8 | 9+ | 2500 | 1 | * |
| 5 | Portland Bill | 1006·9 | +1·6 | WSW | 7 | c | 54 | 75 | 6 | 5 | - | - | 10 | 10 | 1500 | 2 | 6 |
| | Plymouth | 1009·0 | +1·4 | W | 5 | c | 53 | 85 | ~~6~~ 8 | ~~8~~ 5 | 1·2 | - | 7·8 | ~~9+~~ 10 | ~~2500~~ 800 | 1 | ~~5~~ 3 |
| | Falmouth | 1009·4 | +·8 | SW'W | 4 | c | 53 | 85 | 7 | 5 | 7 | - | 4·6 | 10 | 4000 | 1 | 2 |
| | Scilly (St. Mary's) | 1009·1 | +1·2 | SW'W | 5 | c | 53 | 85 | 6 | 5 | 7 | - | 7·8 | 9+ | 4000 | 1 | 4 |
| | Guernsey | 1010·4 | -1·2 | W | 5 | c/d | 55 | 85 | 7 | 8 | - | - | 10 | 10 | 2500 | 2 | 4 |
| 6 | Pembroke | 1004·0 | +1·2 | SW | 6 | cq | 53 | 75 | 6 | ~~9~~ 6 | 6 | - | 7·8 | 9+ | 1500 | 1 | 4 |
| 7 | Holyhead | 1000·0 | +2·6 | WSW | 5 | cq | 51 | 75 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | 4 |
| | Chester (Sealand) | 999·0 | +1·4 | SW'W | 4 | bc | 49 | 65 | 8 | 5 | - | 1 | 1 | 2·3 | 2500 | 1 | * |
| 8 | L'pool (Bidston) | 997·6 | +1·4 | W | 7 | bq | 49 | 65 | 8 | 1 | - | - | Tr | Tr | 2500 | 0 | * |
| 9 | Harrogate | 996·7 | +1·4 | SW | 8 | pr | 46 | 85 | 7 | 6 | - | - | 10 | 10 | 2500 | 1 | * |
| 10 | Spurn Head | 996·0 | +·2 | W'S | 5 | bc | 47 | 85 | 7 | - | 1 | - | 0 | 2·3 | - | 0 | 4 |
| | Catterick | 993·5 | +2·2 | WSW | 5 | pr | 49 | 75 | 7 | 4 | - | - | 4·6 | 4·6 | 1500 | 1 | * |
| | Tynemouth | 987·6 | +·6 | W | 7 | b | 49 | 75 | 7 | - | - | - | 0 | 0 | - | 1 | 3 |
| 11 | Inchkeith | 981·9 | +2·0 | WSW | 8 | PR | 49 | 85 | 7 | 3 | - | - | 4·6 | 4·6 | 2500 | 1 | 4 |
| | Leuchars | 981·2 | +2·6 | W | 7 | b/r | 48 | 85 | 7 | 4 | - | - | 2·3 | 2·3 | 1500 | 2 | * |
| 12 | Renfrew | 980·4 | +2·6 | W | 5 | ir | 48 | 85 | 7 | 6 | 2 | - | 4·6 | 10 | 1500 | 2 | * |
| | Eskdalemuir | 989·3 | +4·0 | WSW | 6 | ir | 45 | 85 | 6 | 6 | - | - | 10 | 10 | 1500 | 2 | * |
| 13A | Tiree | 983·1 | +3·8 | WSW | 8 | ir. | 51 | 85 | 6 | 8 | 2 | + | 7·8 | 9 | 1500 | 1 | 5 |
| 13B | Stornoway | 974·4 | +3·6 | WNW | 6 | c/pr | 49 | 95 | 5 | 9 | - | - | 7·8 | 7·8 | 1500 | 2 | 3 |
| 15 | Dalwhinnie | 979·5 | +2·0 | WSW | 9 | RR | 47 | 75 | 6 | 9 | 2 | - | 4·6 | 10 | 1500 | 2 | * |
| | Aberdeen | 976·6 | +2·2 | WSW | 4 | bc | 50 | 75 | 7 | - | 3 | - | 0 | 2·3 | - | 1 | 3 |
| | Wick | 971·0 | +3·6 | W | 3 | rr | 44 | 95 | 8 | 9 | 2 | 8 | 4·6 | 7·8 | 1500 | 1 | 3 |
| 16 | Lerwick | 970·6 | -·6 | S | 2 | bc | 48 | 85 | 6 | 5 | - | - | 2·3 | 2·3 | 800 | 1 | * |
| 17 | Blacksod Point | 995·3 | +2·0 | ~~WSW~~ WSW | 6 | c | 52 | 75 | 7 | 3 | - | - | 10 | 10 | 450 | 1 | 5 |
| 18 | Malin Head | 989·0 | +4·0 | W | 8 | bcjp | 50 | 75 | 7 | 3 | - | - | 2·3 | 2·3 | 1500 | 1 | 5 |
| | Aldergrove | 993·6 | +3·2 | SW | 5 | bc/pr | 46 | 85 | 7 | 8 | - | 3 | 4·6 | 4·6 | 1500 | 1 | * |
| | Donaghadee | 992·6 | +2·6 | SW | 6 | bcq | 48 | 75 | 7 | 9 | - | - | 2·3 | 2·3 | 1500 | 1 | 4 |
| 19 | Birr Castle | 999·2 | +1·4 | SW | 3 | c | 49 | 85 | 7 | 3 | 7 | - | 2·3 | 7·8 | 1500 | 1 | * |
| 20 | Valentia Obsy. | 1002·3 | -·2 | SW'S | 5 | pr. | 51 | 75 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | 6 |
| | Roches Point | 1003·7 | +1·0 | W | 4 | c | 51 | 85 | 8 | 5 | - | - | 9 | 9 | 1500 | 1 | 5 |

### PAST 24 HOURS.

| Stations. | Weather. 7h.–13h. 3rd (37) | 13h.–18h. 3rd (38) | 18h. 3rd to 1h. 4th (39) | 1h.–7h. 4th (40) |
|---|---|---|---|---|
| London (Kew) | cor.r.m. | or.cm. | bc | cqr. |
| Croydon | orrmr. | oDcm. | bccq | crq |
| S. Farnborough | orrm. | cDr.c | c | ccid. |
| Winchester | orrm. | orm.o | cbc | bccdrc |
| Boscombe Down | orrm.c | c | c | cq |
| Calshot, S'thmtn | crrm.q | orrqc | c | cir. |
| Dungeness | p | m-f | * | d |
| Lympne | orrdd | oddo | com. | opcm.q |
| Shoeburyness | rrqm.o | oiro | o | oir. |
| Felixstowe | orrm. | c | cbcb | bbccir |
| Gorleston | oqrr | oirq | ocbcq | oir. |
| Cranwell | crPRH | tlhR | bbcm. | bcm.c |
| Birmingham | crrr | c | cpr. | c |
| Upper Heyford | RRqrr | ckr.qc | c | c |
| Leafield | oRRqc | cbc | bc | bcqc |
| Ross-on-Wye | rrqcq | cqd.c | cqcoc | cqp.bcq |
| Portland Bill | Rrrk3 | cRq3. | co3. | cid. |
| Plymouth | orrcq | ~~cqd.c~~ | omdd | omdd |
| Falmouth | omRq | cq cm. | cor.m.q | ocr.qm |
| Scilly (St. Mary's) | om.r.c | cp.c | dfidc | ir. |
| Guernsey | oirrq | oirid | orrdd | odrcq |
| Pembroke | cR, p | ir.o | cm.dr | cbcq |
| Holyhead | Rkqcbcb | bccq | cq rm. | rrbcbq |
| Chester (Sealand) | ckq RpR | pr.bc | bbc | bccir |
| L'pool (Bidston) | dirpqcbq | ybq | bcPq | prcQ |
| Harrogate | rkqcbc | bop | obQp | obQp |
| Spurn Head | cirq | cbc | bcq | bcqbc |
| Catterick | om.r.rqc | cqpr | bcq | bcqpr |
| Tynemouth | oirqbc | bcqpr | bq | bccp |
| Inchkeith | orrc | crrpr | bcpr. | cprbc |
| Leuchars | oRqm.p. | bcqir. | bcbq | bbcqc |
| Renfrew | Rcorr | cirq | rq.r.c | cr.r. |
| Eskdalemuir | RRsHkqrr | crrir | cir | crrc |
| Tiree | cRcr | cir. | c | rrR |
| Stornoway | cir | cPhr | bccirq | bcq |
| Dalwhinnie | rr | rr | * | rr |
| Aberdeen | orrbc | cprbc | b | b |
| Wick | cirbc | crr | crrbc | bcpr |
| Lerwick | corrm | orrbcm | bcorrm | orrirsm |
| Blacksod Point | prq | oq | prq | c |
| Malin Head | cqpr | bccqpr | bccprqrq | oirc |
| Aldergrove | crr | cpr | cp | orrbc |
| Donaghadee | bcprq | bcr.rq | bcprq | bcprq |
| Birr Castle | bcpr | cprc | cir | circ |
| Valentia Obsy. | circ | cp. | r.r.ir | cor. |
| Roches Point | bcc, o | oo | circ | cbc |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s., slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s./k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus. R, heavy rain. r., slight rain. rr, continuous rain.
<, less than (for cloud height).
⦶, Solar halo. ⦷, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; --, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than 1/10 of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

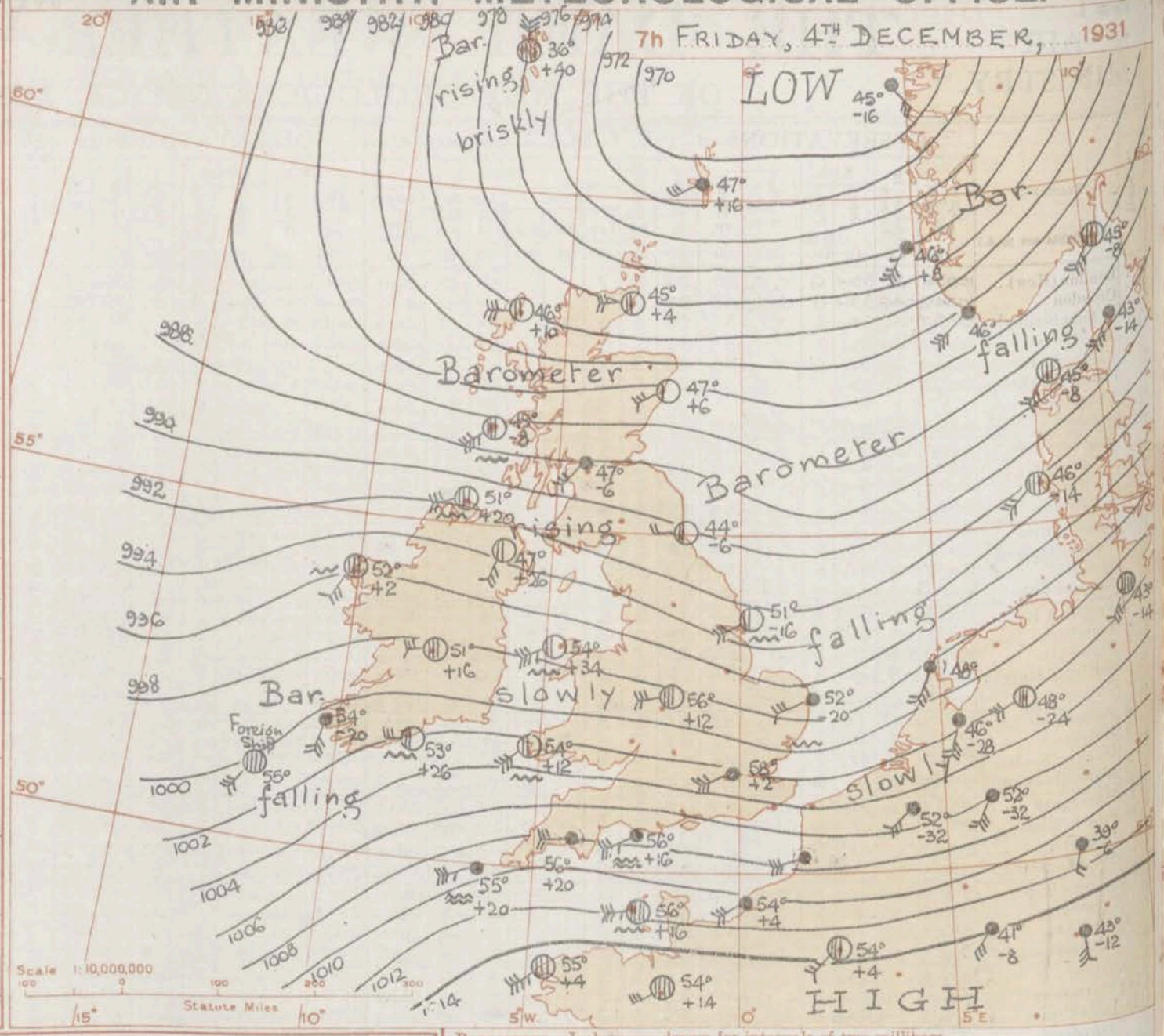
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for 3rd December 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 2nd to 9h. 3rd. | Temperature. Max. 9h.—17h. 3rd. | Rainfall. Night. 17h. 2nd to 9h. 3rd. | Rainfall. Day. 9h.—17h. 3rd. | Sunshine. Sunrise to Sunset. 3rd. |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | or | oro | 35 | 53 | 0.5 | 6 | 0.0 |
| | Bournemouth | oror | oro | 34 | 54 | 6 | 7 | 0.0 |
| | Ventnor ... | ouor | oro | 41 | 53 | 1 | 2 | 0.0 |
| | Southsea ... | or | oc | 41 | 54 | 1 | 3 | 0.0 |
| | Bognor Regis | orrc | co | 39 | 43 | 2 | 4 | 0.0 |
| | Littlehampton | cr | crc | 40 | 53 | 1 | 4 | 0.0 |
| | Worthing ... | or | oro | 40 | 54 | 1 | 5 | 0.0 |
| | Brighton ... | rr | o | 38 | 54 | 0.4 | 4 | 0.0 |
| | Eastbourne† | or.rro | or.r | 39 | 54 | - | 3 | 0.0 |
| | Hastings† ... | orr | ordo | 38 | 53 | - | 4 | 0.0 |
| | Folkestone ... | od | oid. | 37 | 53 | - | 1 | 0.0 |
| | Dover... ... | or | oro | 38 | 53 | - | 1 | 0.0 |
| | Deal ... ... | oro | o | 35 | 53 | - | 3 | 0.0 |
| | Ramsgate ... | odo | o | ? | 53 | - | 0.5 | 0.0 |
| | Margate ... | cr | cd | 35 | 53 | - | 1 | 0.0 |
| 2 | Southend ... | or | or | 37 | 52 | Trace | 3 | 0.0 |
| | Maldon ... | or | iro | 35 | 53 | - | 4 | 0.0 |
| | Clacton-on-Sea | oiro | opc | 39 | 50 | - | 2 | 0.0 |
| | Dovercourt ... | ocr | roc | 39 | 51 | 0.2 | 3 | 0.0 |
| | Lowestoft ... | ogpr | ocopr | 38 | 50 | - | 6 | 0.0 |
| | Skegness ... | om.r | rom. | 36 | 51 | 2 | 6 | 0.0 |
| | Mablethorpe | orctlr | bcc | 33 | 51 | 4 | 2 | 1.0 |
| | Cleethorpes ... | or.or | rco | 34 | 51 | 2 | 2 | 0.7 |
| 3 | Leamington S. | opr | opr | 39 | 53 | 2 | 1 | 0.0 |
| 4 | Cheltenham† | oir. | o | 34 | 53 | 4 | 2 | 0.0 |
| 5 | Bath ... ... | rrqc | cr. | 40 | 55 | 8 | 4 | 0.0 |
| | Weymouth ... | rrc | c | 48 | 55 | 3 | 1 | 0.0 |
| | Jersey ... | odo | o | 42 | 53 | - | 0.5 | 0.0 |
| | Torquay ... | Rqod | ordqoq | 36 | 55 | 8 | 3 | 0.0 |
| | Penzance ... | oro | ocir | 52 | 56 | 9 | 1 | 0.0 |
| | St. Ives ... | d | o | 44 | 56 | 13 | 2 | 0.0 |
| | Bude ... ... | r | o | 44 | 54 | 4 | 5 | 0.0 |
| | Ilfracombe ... | orr | o | 44 | 55 | 9 | 3 | 0.0 |
| 6 | Aberystwyth | cmcpr | r.cm. | 44 | 54 | 4 | 0.3 | 0.0 |
| 7 | Llandudno ... | r.cbc | bccqc | 46 | 53 | 3 | 0.1 | 2.4 |
| | Colwyn Bay... | rorb | bccb | 47 | 52 | 9 | 0.3 | 2.2 |
| | Rhyl ... ... | oqrbc | bcqb | 41 | 54 | 3 | 0.6 | 2.4 |
| 8 | Wallasey ... | pbcb | bbc | 35 | 54 | 1 | Trace | 2.8 |
| | Southport‖ ... | oR.bc | bbc | 43 | 52 | 5 | 0.5 | 2.8 |
| | Blackpool ... | Rqc | bcc | 35 | 52 | 15 | - | 2.1 |
| | Morecambe ... | rrcb | bccbc | 34 | 51 | 17 | 0.5 | 1.2 |
| 9 | Ilkley... ... | roc | btr | 33 | 51 | 5 | 4 | 1.2 |
| 10 | Berwick-on-T. | oRc | Rcbc | 43 | 50 | 1 | 1 | 1.5 |
| 11 | Dunbar ... | crr | bcp | 45 | 50 | 3 | 1 | 1.4 |
| 12 | Douglas ... | cbq | cbq | 48 | 51 | 22 | - | 2.6 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

## AIR MINISTRY. METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 4/10 clouded. ◑ Sky 5/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. ⚡ Thunderstorm.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 4th Dec. 1931. |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands | Wind southwest or west, fresh or strong, gale locally on coast; bright periods and occasional rain or showers today; further rain later; mild. |
| 4. W. Midlands | As 6 - 10. |
| 5. S.W. England<br>6. South Wales | Wind southwesterly, backing then veering, strong or gale; mainly cloudy; drizzle or rain; mild. |
| 7. North Wales<br>8. N.W. England<br>9. N. Midlands<br>10. N.E. England | Wind west or southwest, backing temporarily later, fresh or strong, gale at times on coast; variable sky and occasional rain or showers at first, becoming cloudy with further rain; mild. |
| 11. S.E. Scotland<br>12. S.W. Scotland & Isle of Man | Wind mainly west or southwest, fresh or strong at times, perhaps northerly later; variable sky; showers or occasional rain, perhaps sleet later; probably colder later. |
| 13. A. W. Scotld. B. N.W. Scotland.<br>14. Mid-Scotland<br>15. N.E. Scotland<br>16. Orkneys and Shetlands. | Wind westerly becoming northerly, strong, perhaps gale locally; variable or cloudy sky; showers or occasional rain; becoming colder, with probably sleet or snow. |
| 17. N.W. Ireland<br>18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland | Wind mainly southwest or west, fresh or strong, stronger locally at times; cloudy; some rain; mild today, perhaps colder later. |

### GENERAL INFERENCE.

Secondaries to a deep depression northeast of Scotland and further developments from west and northwest of the British Isles will maintain unsettled and stormy weather generally though with fair periods. Conditions will become colder in Scotland but continue mild elsewhere.

### FURTHER OUTLOOK.

Unsettled in most districts, but some bright periods; colder conditions in the North, perhaps spreading southwards.

Time of issue of Gale Warnings.

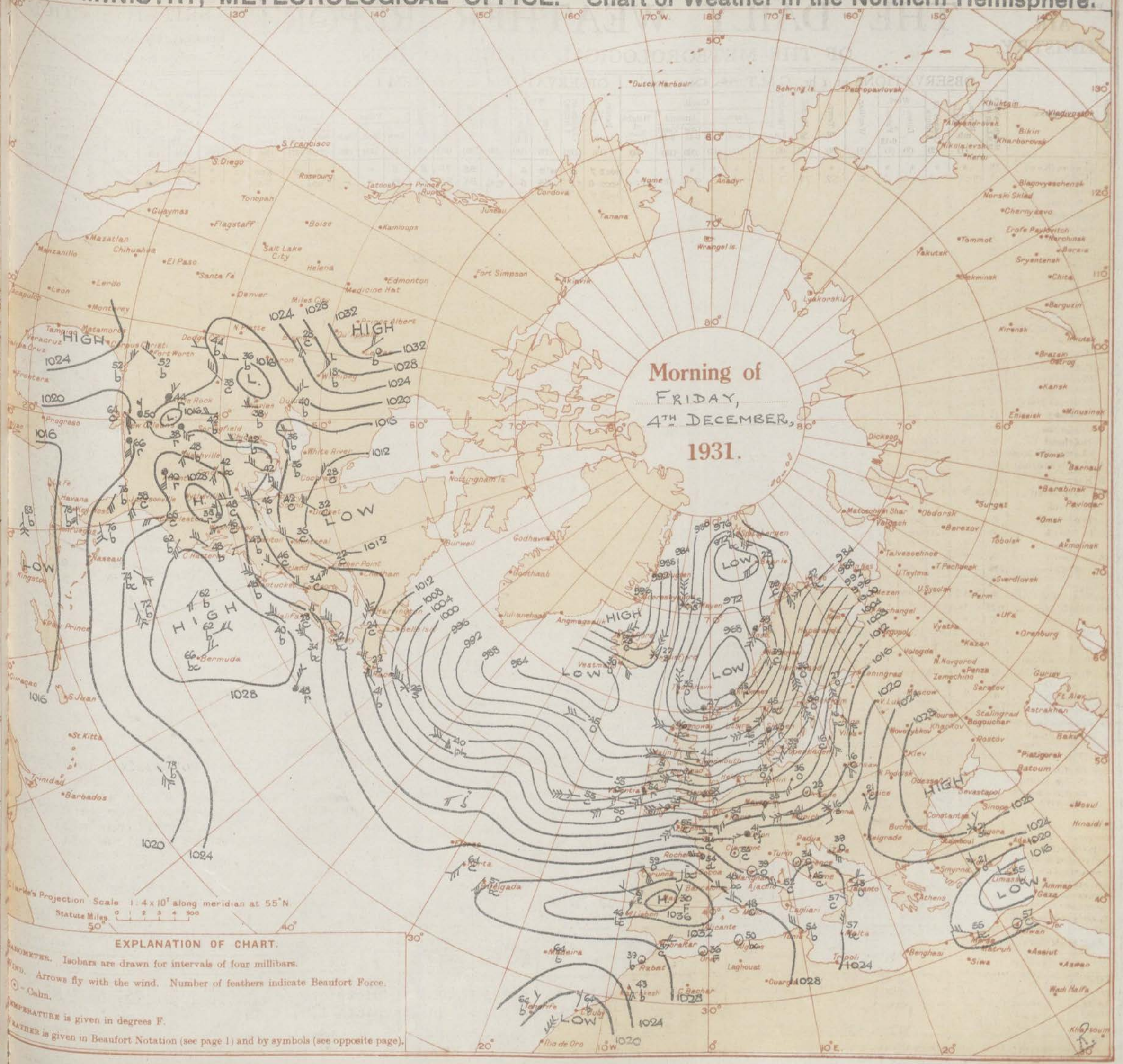
S.cone 1430 1st in districts 13,17,20; 1400 2nd in Districts 5-8,12,15,16,18,19; 0740 3rd in districts 1,2,10,11.

Forecasts issued at 1005 G.M.T

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press Kingsway, W.C.2.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.




## EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ - Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 4th December 1931.

No. 25,579.

### OBSERVATIONS at 1 hr. G.M.T. 4th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew)... | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 217 | 1005·6 | -4 | sw'w | 4 | c | 52 | 75 | 7 | 6 | 2 | - | 4-6 | 10 | 1500 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | ? | * | * |
| | Winchester ... | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot (S'thmtn) | 8 | 1007·1 | -4 | sw | 4 | c | 54 | 85 | 8 | 5 | 7 | - | 4-6 | 10 | 4000 |
| | Dungeness ... | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne ... | 346 | 1007·3 | +2 | sw | 4 | o | 50 | 95 | 6 | 5 | - | - | 10 | 10 | 800 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston ... | 14 | 1002·3 | +4 | wsw | 4 | c | 48 | 95 | 7 | 4 | - | - | 10 | 10 | 2500 |
| | Cranwell ... | 240 | 1000·1 | -2 | sw's | 4 | bc | 47 | 85 | 6 | 5 | 3 | - | 2·3 | 4·6 | 2500 |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield ... | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye ... | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill.... | 32 | 1005·1 | -2 | sw | 7 | o | 55 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 |
| | Plymouth ... | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth ... | 200 | 1005·5 | -6 | wsw | 7 | r₀r₀ | 55 | 95 | 6 | 6 | - | - | 10 | 10 | 2500 |
| | Scilly (St. Mary's) | 163 | 1007·2 | -4 | w's | 7 | c | 50 | 95 | 6 | 5 | - | - | 9+ | 9+ | 4000 |
| | Guernsey ... | 175 | 1010·0 | -16 | w | 6 | dd | 56 | 95 | 5 | 6 | - | - | 10 | 10 | 1500 |
| 6 | Pembroke ... | 142 | 999·5 | -32 | sw | 5 | Dr | 55 | 95 | 5 | . | . | . | 10 | 10 | <150 |
| 7 | Holyhead ... | 26 | 998·5 | -22 | sw's | 5 | rr | 49 | 95 | 5 | 6 | - | - | 10 | 10 | 800 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate ... | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head ... | 29 | 998·1 | +4 | sw'w | 4 | bc | 45 | 85 | 7 | - | 2 | - | 0 | 2·3 | - |
| | Catterick ... | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth ... | 67 | 991·3 | 0 | w | 6 | b | 49 | 75 | 7 | - | - | - | 0 | 0 | - |
| 11 | Inchkeith ... | 190 | 987·2 | +20 | wsw | 9 | pr₀ | 48 | 85 | 7 | 6 | - | - | 4·6 | 4·6 | 2500 |
| | Leuchars ... | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew ... | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree ... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway ... | 34 | 979·2 | +10 | wnw | 7 | r | 48 | 95 | 6 | 9 | 2 | - | 9 | 10 | 800 |
| 1F | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen ... | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick ... | 81 | 976·9 | +16 | wsw | 3 | bc | 46 | 85 | 8 | 8 | - | - | 2·3 | 2·3 | 2500 |
| 16 | Lerwick ... | 54 | 968·2 | -6 | w's | 2 | rr | 48 | 95 | 6 | 6 | - | - | 10 | 10 | 800 |
| 17 | Blacksod Point | 18 | 990·0 | -60 | sw | 7 | pr₀ | 55 | 95 | 6 | 3 | . | . | 10 | 10 | <150 |
| 18 | Malin Head ... | 52 | 990·3 | -4 | sw | 3 | ir₀ | 47 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 |
| | Aldergrove ... | 288 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee ... | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 997·3 | +25 | sw | 7 | ir₀ | 56 | 95 | 5 | 6 | - | - | 10 | 10 | 1500 |
| | Roches Point... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 4th December — PAST 24 HOURS

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) | Temperature Max. Day 7h-18h °F. (31) | Min. Night 18h-7h °F (32) | Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 3rd Hrs. (36) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew)... | 1002·7 | 0 | W'S | 6 | q | 58 | 75 | 8 | 8 | – | – | 9 | 9 | 800 | 1 | * | 54 | 49 | 46 | 5 | Tr. | 0·0 |
| Croydon ... | 1002·6 | +2 | W'S | 6 | r₀r₀ | 58 | 85 | 7 | 6 | – | – | 10 | 10 | 800 | 1 | * | 54 | 50 | 47 | 5 | Tr. | 0·0 |
| S. Farnborough | 1003·8 | +8 | W | 5 | c/d | 58 | 85 | 8 | 5 | – | – | 10 | 10 | 800 | 1 | * | 54 | 49 | 45 | 7 | Tr. | 0·0 |
| Winchester ... | 1004·3 | +16 | W'S | 4 | c | 57 | 85 | 7 | 5 | – | – | 10 | 10 | 1500 | 1 | * | 54 | 49 | 47 | 10 | 0·1 | 0·0 |
| Boscombe Down | 1004·4 | +16 | WNW | 6 | c | 57 | 75 | 7 | 5 | – | – | 10 | 10 | 1500 | 1 | * | 53 | 48 | 47 | 7 | – | * |
| Calshot (S'thmtn) | 1005·5 | +2 | SW'W | 5 | ir₀ | 57 | 85 | 7 | 5 | 2 | – | 7-8 | 10 | 2500 | 1 | 2 | 54 | 51 | 48 | 6 | 0·3 | 0·0 |
| Dungeness ... | * | * | SW | 5 | c | * | * | 6 | 5 | 1 | * | 7-8 | 9+ | 1500 | * | 3 | 53 | 42 | * | 2 | 0·6 | * |
| Lympne ... | 1003·3 | -12 | WSW | 6 | o | 54 | 95 | 6 | 5 | – | – | 10 | 10 | 800 | 1 | * | 52 | 49 | 46 | 2 | 0·4 | 0·0 |
| Shoeburyness | 1000·6 | -16 | W'S | 7 | ir₀ | 57 | 85 | 7 | 5 | – | – | 10 | 10 | 800 | 1 | * | 53 | 48 | 46 | 4 | Tr. | 0·0 |
| Felixstowe ... | 999·3 | -36 | W | 5 | ir₀ | 55 | 85 | 7 | 5 | – | – | 10 | 10 | 1500 | 1 | 5 | 52 | 46 | 40 | 2 | Tr. | 0·0 |
| Gorleston ... | 997·4 | -20 | W'S | 4 | ir₀ | 52 | 95 | 6 | 6 | – | – | 10 | 10 | 1500 | 1 | 3 | 50 | 46 | 44 | 6 | 0·1 | 0·0 |
| Cranwell ... | 996·1 | -8 | WSW | 5 | c | 54 | 85 | 7 | 5 | 5 | – | 4-6 | 7-8 | 4000 | 1 | * | 51 | 43 | 40 | 8 | – | 0·8 |
| Birmingham ... | 999·7 | +12 | W | 5 | c | 56 | 75 | 8 | 1 | 7 | 2 | 1 | 9 | 1500 | 1 | * | 52 | 48 | 44 | 3 | Tr. | 0·0 |
| Upper Heyford | 1001·0 | +16 | W | 6 | c | 56 | 85 | 8 | 5 | 1 | – | 7-8 | 7-8 | 2500 | 1 | * | 52 | 47 | 43 | 7 | – | * |
| Leafield ... | 1001·8 | +16 | W'S | 5 | c | 54 | 85 | 8 | 5 | 9 | – | 4-6 | 7-8 | 2500 | 1 | * | 51 | 46 | 40 | 10 | – | 0·0 |
| Ross-on-Wye ... | 1001·2 | +8 | W | 6 | q | 57 | 75 | 8 | 5 | 7 | – | 1 | 7-8 | 4000 | 1 | * | 54 | 50 | 48 | 6 | 0·1 | 0·0 |
| Portland Bill.... | 1006·1 | +16 | WSW | 7 | id₀ | 56 | 95 | 7 | 4 | – | – | 10 | 10 | 1500 | 1 | 6 | 55 | 53 | * | 3 | Tr. | * |
| Plymouth ... | 1009·5 | +20 | WNW | 5 | id | 56 | 95 | 7 | 5 | – | – | 10 | 10 | 450 | 1 | 3 | 54 | 52 | 51 | 5 | 2 | 0·0 |
| Falmouth ... | 1009·4 | +20 | W'S | 6 | dd | 55 | 95 | 6 | 6 | 1 | – | 4-6 | 10 | 2500 | 1 | 3 | 55 | 52 | * | 10 | 1 | 0·0 |
| Scilly (St. Mary's) | 1010·3 | +20 | W'S | 7 | ir₀ | 55 | 95 | 6 | 6 | – | – | 10 | 10 | 2500 | 1 | 5 | 54 | 51 | * | 3 | 1 | 0·0 |
| Guernsey ... | 1011·4 | +16 | WNW | 7 | q | 56 | 95 | 6 | 5 | – | – | 10 | 10 | 1500 | 1 | 4 | 55 | 54 | 53 | 5 | 3 | 0·0 |
| Pembroke ... | 1002·6 | +12 | SW | 6 | bc | 54 | 95 | 7 | 6 | 2 | 4 | 2-3 | 4-6 | 800 | 0 | 4 | 54 | 52 | * | 4 | 0·3 | 0·0 |
| Holyhead ... | 998·5 | +34 | W'S | 7 | q | 54 | 85 | 7 | 4 | 3 | 9 | Tr. | 4-6 | 2500 | 1 | 4 | 53 | 49 | 46 | 4 | 3 | 2·5 |
| Chester (Sealand) | 997·3 | +22 | WSW | 3 | c | 56 | 75 | 7 | 5 | – | 1 | 4-6 | 7-8 | 4000 | 1 | * | 55 | 47 | 43 | 5 | 0·2 | 2·1 |
| L'pool (Bidston) | 996·4 | +20 | W | 6 | q | 55 | 75 | 7 | 8 | – | – | 7-8 | 7-8 | 2500 | 1 | * | 53 | 46 | 45 | 1 | 0·5 | 2·3 |
| Harrogate ... | 993·5 | 0 | SW | 8 | pr | 53 | 95 | 7 | 6 | – | – | 4-6 | 4-6 | 2500 | 1 | * | 50 | 45 | 42 | 6 | 2 | 0·3 |
| Spurn Head ... | 992·5 | -16 | W | 5 | bc | 51 | 95 | 7 | 4 | 4 | – | 2-3 | 4-6 | 2500 | 0 | 4 | 51 | 45 | * | 2 | – | 1·0 |
| Catterick ... | 991·6 | -2 | W | 5 | bc | 54 | 85 | 7 | 8 | – | 1 | 2-3 | 2-3 | 2500 | 1 | * | 51 | 44 | 41 | 4 | 1 | * |
| Tynemouth ... | 989·5 | -6 | W | 2 | bc/pr | 44 | 95 | 6 | 2 | – | – | 2-3 | 2-3 | 2500 | 1 | 2 | 55 | 44 | 39 | 3 | 1 | * |
| Inchkeith ... | 988·1 | 0 | W | 7 | bc | 46 | 95 | 8 | 5 | 8 | – | 4-6 | 4-6 | 2500 | 1 | 4 | 51 | 41 | 40 | 4 | 0·1 | 1·4 |
| Leuchars ... | 987·6 | +4 | SW | 4 | c | 46 | 85 | 8 | 4 | – | – | 9+ | 9+ | 2500 | 1 | * | 50 | 45 | 41 | 5 | – | 1·3 |
| Renfrew ... | 989·8 | -6 | SW | 4 | ir₀ | 47 | 95 | 7 | 5 | – | – | 9+ | 9+ | 1500 | 2 | * | 51 | 45 | 43 | 11 | 3 | 0·0 |
| Eskdalemuir ... | 991·1 | -4 | SW'S | 4 | c | 43 | 95 | 7 | 5 | – | – | 9+ | 9+ | 1500 | 2 | * | 46 | 41 | 39 | 18 | 9 | 0·0 |
| Tiree ... | 985·7 | -8 | WSW | 7 | c | 49 | 75 | 6 | 6 | 1 | 8 | 7-8 | 9+ | 800 | 1 | 4 | 51 | 47 | 43 | 2 | 4 | 0·0 |
| Stornoway ... | 980·7 | +10 | W | 6 | bc | 46 | 85 | 7 | – | 7 | – | 0 | 2-3 | – | 1 | 3 | 52 | 45 | * | 13 | 3 | 0·0 |
| Dalwhinnie ... | 987·0 | +4 | S | 1 | iR | 37 | 95 | 6 | 4 | 2 | – | 4-6 | 10 | 1500 | 2 | * | 47 | 36 | 31 | 24 | 22 | 0·0 |
| Aberdeen ... | 984·1 | +6 | WSW | 4 | b | 47 | 65 | 8 | 7 | – | – | 1 | 1 | 2500 | 1 | 3 | 50 | 47 | 42 | 5 | – | 1·6 |
| Wick ... | 978·1 | +4 | W | 5 | bc | 45 | 75 | 8 | 8 | 8 | – | 2-3 | 4-6 | 1500 | 1 | 3 | 49 | 44 | * | 3 | 2 | * |
| Lerwick ... | 970·5 | +16 | W'S | 3 | ir₀ | 47 | 85 | 6 | 6 | – | – | 10 | 10 | 800 | 2 | * | 49 | 45 | * | 7 | 6 | 0·0 |
| Blacksod Point | 996·1 | +2 | SW | 4 | c | 52 | 85 | 7 | 5 | – | – | 9 | 9 | <150 | 1 | 4 | 53 | 47 | * | 0·4 | 2 | * |
| Malin Head ... | 991·1 | +20 | W | 5 | c | 51 | 85 | 7 | 5 | 1 | – | 7-8 | 9+ | 2500 | 1 | 4 | 51 | 45 | * | – | 2 | 0·0 |
| Aldergrove ... | 993·6 | +26 | SW'S | 4 | bc | 47 | 95 | 8 | 5 | 3 | – | 4-6 | 4-6 | 2500 | 1 | * | 49 | 42 | 37 | 2 | 3 | 0·2 |
| Donaghadee ... | 992·5 | +20 | SW | 5 | q | 49 | 85 | 7 | 8 | – | – | 2-3 | 2-3 | 2500 | 1 | 3 | 51 | 44 | * | 1 | 4 | * |
| Birr Castle ... | 998·1 | +16 | W | 4 | c | 51 | 85 | 7 | – | 8 | – | 0 | 7-8 | – | 1 | * | 50 | 46 | 44 | 2 | 1 | 0·4 |
| Valentia Obsy.† | 1000·8 | -20 | SSW | 5 | r₀r₀ | 54 | 95 | 6 | 5 | – | – | 10 | 10 | 450 | 1 | * | 53 | 49 | 47 | 1 | 3 | 0·0 |
| Roches Point... | 1002·7 | +26 | W | 3 | bc | 53 | 95 | 8 | 5 | – | – | 4-6 | 4-6 | 1500 | 1 | 4 | 53 | 50 | * | – | 3 | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| Station | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon | Weather Night | Temperature Day Max. °F. | Night Min. °F. | Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset, hrs. Yesterday | Humidity 15h. G.M.T. % Yesterday | Humidity 9h. G.M.T. % To-day | Visibility 9h. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew ... | 18 | cor₀m₀ | or₀cm₀ | bcqr₀ | 54 | 49 | 46 | 5 | Tr. | 0·0 | * | * | 7 |
| Croydon ... | 217 | orrm₀r₀ | oDcm₀ | bcqcr₀q | 54 | 50 | 47 | 5 | Tr. | 0·0 | * | * | 7 |
| Greenwich (Royal Observatory) ... | 149 | cqr | cqrc | db₀od.c⊕ | 54 | 50 | 41 | 5 | Tr. | 0·0 | 92 | 71 | 6 |
| City (Bunhill Row) ... | — | * | * | * | * | * | * | * | * | 0·0 | * | * | * |
| Westminster (St. James' Park) ... | 27 | * | * | * | 54 | 50 | 43 | ← 4 → | | 0·0 | 83 | 70 | * |
| Regents Pk. (Botanic Gardens) ... | 168 | * | * | * | * | * | * | * | * | 0·0 | * | * | * |
| Camden Square ... | 110 | oro | oroc | * | 51 | 50 | 44 | 3 | – | * | * | 75 | * |
| Kensington ... | 80 | orco | co | * | 54 | 50 | 42 | 3 | 0·1 | 0·0 | At 18h. 73 | 70 | * |
| Hampstead Observatory ... | 450 | or | o | * | 52 | 46 | 38 | 4 | Tr. | 0·0 | * | 78 | * |

**Atmospheric Pollution.**
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 4th.

| South Kensington. Max. | Time. | Min. | Time. |
|---|---|---|---|
| 1·0 | 15h, 3rd | nil | 0h-6h, 4th |

| Kew Observatory. Max. | Time. | Min. | Time. |
|---|---|---|---|
| 0·1 | 18h. 3rd | <0·1 | 1h. 4th. |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 3rd December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 4th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris ... | 1015·3 | SSW | 5 | r₀r₀ | 43 | 1012·2 | SW | 4 | c | 54 | 43 | 39 | 10 | 1 |
| Brussels ... | 1009·9 | SSW | 5 | ir₀ | 39 | 1004·6 | SW'W | 4 | d₀d₀ | 52 | 39 | 41 | 3 | 3 |
| Berlin ... | 1014·8 | | | c | 27 | 1005·2 | SSW | 3 | o | 36 | 34 | 25 | 0·1 | 6 |
| Zürich ... | | | | | | 1020·4 | SW | 2 | r₀r₀ | 41 | | 34 | | 20 |
| Rome ... | 1024·6 | ESE | 1 | b | 41 | 1025·0 | N | 2 | c | 48 | 55 | 30 | - | - |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13-18 | 9 | 47-54 |
| 1 | 1-3 | 5 | 19-24 | 10 | 55-63 |
| 2 | 4-7 | 6 | 25-31 | 11 | 64-75 |
| 3 | 8-12 | 7 | 32-38 | 12 | 75 |
| | | 8 | 39-46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| Code | | Objects not visible at |
|---|---|---|
| 0 | Dense fog | 55 yards. |
| 1 | Thick fog | 220 " |
| 2 | Fog | 550 " |
| 3 | Moderate fog | 1,100 " |
| 4 | Mist or haze | 1¼ miles. |
| 5 | Poor visibility | 2½ " |
| 6 | Moderate " | 6¼ " |
| 7 | Good " | 12½ " |
| 8 | Very good " | 31 " |
| 9 | Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

0 Calm. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. Simpson, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 5th December 1931.

No. 25,580.

### OBSERVATIONS at 13h. G.M.T. 4th December

| District | Stations (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0-12 (4) | Weather. (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud. Form. Low. (9) | Form. Med. (10) | Form. High. (11) | Amount. Low 0-10 (12) | Amount. Total 0-10 (13) | Height of Base (feet) (14) | Sun-shine 3rd Hrs. (36) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1004·1 | -12 | SW | 5 | c | 58 | 75 | 7 | 5 | - | 1 | 9 | 9+ | 2500 | 0·0 |
| | Croydon | 1005·1 | -2 | WSW | 6 | c | 58 | 75 | 7 | 5 | - | 9 | 9 | 9 | 1500 | 0·0 |
| | S. Farnborough | 1004·7 | -12 | SW'W | 5 | o | 59 | 75 | 8 | 5 | - | - | 10 | 10 | 1500 | 0·0 |
| | Winchester | 1005·8 | -10 | SW'W | 5 | c | 58 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 | 0·0 |
| | Boscombe Down | 1005·8 | -10 | WSW | 6 | cr. | 58 | 86 | 7 | 5 | - | - | 10 | 10 | 1500 | • |
| | Calshot, S'thmtn | 1008·0 | -2 | SW'S | 5 | c/d | 55 | 95 | 6 | 5 | - | - | 10 | 10 | 1450 | 0·0 |
| | Dungeness | * | * | SW | 6 | c | * | * | 6 | 8 | 6 | * | 4-6 | 7-8 | 1500 | • |
| | Lympne | 1006·1 | +2 | WSW | 5 | c | 56 | 85 | 7 | 5 | 3 | - | 9 | 9 | 1500 | 0·0 |
| 2 | Shoeburyness | 1003·6 | 0 | W | 7 | bc | 58 | 75 | 7 | 7 | 8 | 8 | 2-3 | 4-6 | 2500 | 0·0 |
| | Felixstowe | 1002·1 | +10 | W | 5 | c | 59 | 65 | 8 | 1 | - | 2 | 1 | 7-8 | 2500 | 0·0 |
| | Gorleston | 999·4 | 0 | W'N | 5 | bc | 57 | 85 | 7 | - | - | 3 | 0 | 4-6 | - | 0·0 |
| | Cranwell | 996·7 | -18 | SW'W | 6 | c | 55 | 75 | 7 | 5 | - | 1 | 7-8 | 7-8 | 2500 | 0·8 |
| 3 | Birmingham | 999·5 | -16 | SW | 6 | cq | 58 | 75 | 8 | 6 | - | - | 9 | 9 | 800 | 0·0 |
| | Upper Heyford | 1002·5 | -12 | SW | 6 | d₀d₀ | 56 | 85 | 6 | 6 | - | - | 10 | 10 | 900 | • |
| | Leafield | 1002·1 | -20 | SW'W | 6 | cr₀ | 55 | 95 | 6 | 6 | - | - | 10 | 10 | 900 | 0·0 |
| 4 | Ross-on-Wye | 1001·9 | -10 | W'S | 7 | cq | 59 | 75 | 8 | 8 | 6 | - | 9 | 9+ | 4000 | 0·0 |
| 5 | Portland Bill | 1007·6 | +4 | W'S | 7 | cd₀ | 56 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | • |
| | Plymouth | 1010·1 | -8 | SW | 7 | d₀d₀ | 55 | 95 | 5 | 6 | - | - | 10 | 10 | 1450 | 0·0 |
| | Falmouth | 1009·4 | -6 | WSW | 8 | dd | 55 | 95 | 6 | 6 | - | - | 10 | 10 | 2500 | 0·0 |
| | Scilly (St. Mary's) | 1010·8 | -4 | W'S | 8 | cd₀ | 56 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 0·0 |
| | Guernsey | 1013·2 | 0 | WNW | 6 | cq | 57 | 95 | 6 | 8 | - | - | 10 | 10 | 2500 | 0·0 |
| 6 | Pembroke | 1002·3 | -6 | SW | 5 | cd | 55 | 95 | 4 | 5 | - | - | 10 | 10 | 1150 | 0·0 |
| 7 | Holyhead | 996·3 | -3 | WSW | 6 | c | 56 | 85 | 7 | 4 | - | 9 | 9+ | 9+ | 1500 | 2·5 |
| | Chester (Sealand) | 995·3 | -4 | SW | 6 | cr₀ | 58 | 89 | 8 | 7 | - | 3 | 7-8 | 9 | 1500 | 2·1 |
| 8 | L'pool (Bidston) | 994·6 | -30 | WSW | 6 | c/pr | 56 | 85 | 8 | 9 | - | 4 | 4-6 | 7-8 | 1500 | 2·3 |
| 9 | Harrogate | 994·4 | -10 | SW | 3 | pr | 49 | 85 | 7 | 6 | - | 3 | / | 2-3 | 2500 | 0·3 |
| 10 | Spurn Head | 994·3 | +4 | W | 5 | bcq | 53 | 75 | 7 | - | 1 | 9 | 0 | 4-6 | - | 1·0 |
| | Catterick | 992·7 | -18 | W | 4 | bc/pr | 48 | 85 | 8 | 8 | - | 1 | 4-6 | 4-6 | 2500 | • |
| | Tynemouth | 991·1 | 0 | W | 6 | bc | 53 | 65 | 6 | 2 | - | - | 4-6 | 4-6 | 2500 | • |
| 11 | Inchkeith | 987·8 | +4 | WSW | 8 | c | 48 | 85 | 7 | 5 | 8 | - | 4-6 | 9 | 2500 | 1·4 |
| | Leuchars | 986·9 | 0 | WSW | 6 | c | 48 | 75 | 8 | 4 | - | - | 9 | 9 | 4000 | 1·3 |
| 12 | Renfrew | 990·2 | -12 | SW'W | 3 | cr | 47 | 85 | 6 | 9 | - | - | 10 | 10 | 1500 | 0·0 |
| | Eskdalemuir | 990·4 | -28 | SW | 5 | r | 44 | 85 | 6 | 6 | 2 | - | 9 | 10 | 800 | 0·0 |
| 13A | Tiree | 987·7 | -12 | SW'W | 3 | cr₀ | 47 | 85 | 7 | 5 | 2 | - | 7-8 | 10 | 1500 | 0·0 |
| 13B | Stornoway | 984·6 | +20 | NW | 2 | c | 46 | 95 | 9 | 9 | 7 | - | 4-6 | 7-8 | 1500 | 0·0 |
| 15 | Dalwhinnie | 988·0 | 0 | SW | 3 | c | 43 | 75 | 8 | 4 | 6 | - | 4-6 | 7-8 | 2500 | 1·6 |
| | Aberdeen | 984·3 | 0 | W | 4 | bc | 47 | 65 | 8 | - | 3 | 3 | 0 | 2-3 | - | • |
| | Wick | 981·2 | +12 | W | 3 | c/pr | 44 | 95 | 8 | 9 | - | 8 | 4-6 | 7-8 | 1500 | 0·0 |
| 16 | Lerwick | 976·5 | +3 | W'N | 3 | pr | 47 | 85 | 7 | 9 | 2 | - | 4-6 | 9 | 1500 | • |
| 17 | Blacksod Point | 992·2 | -4 | SW | 7 | o | 51 | 65 | 6 | 6 | - | - | 10 | 10 | 150 | 0·0 |
| 18 | Malin Head | 989·6 | -6 | SW | 3 | cr₀ | 45 | 95 | 7 | 6 | 1 | - | 7-8 | 9+ | 1500 | 0·0 |
| | Aldergrove | 991·9 | -18 | WSW | 3 | r₀r₀ | 44 | 95 | 6 | 6 | - | - | 9+ | 9+ | 800 | 0·2 |
| | Donaghadee | 991·5 | +20 | SW | 2 | c/pr | 46 | 95 | 7 | 8 | - | - | 7-8 | 7-8 | 1500 | • |
| 19 | Birr Castle | 998·5 | +18 | W | 6 | cq | 52 | 65 | 7 | 3 | - | - | 7-8 | 7-8 | 2500 | 0·4 |
| 20 | Valentia Obsy. | 1005·2 | +28 | SW'W | 7 | c | 53 | 65 | 8 | 5 | - | - | 7-8 | 7-8 | 2500 | 0·0 |
| | Roches Point | 1003·4 | +10 | W | 5 | c | 55 | 65 | 8 | 3 | - | - | 7-8 | 7-8 | 2500 | • |

### OBSERVATIONS at 18h. G.M.T. 4th December

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind. Direc. (17) | Wind. Force 0-12 (18) | Weather. (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud. Form. Low. (23) | Form. Med. (24) | Form. High. (25) | Amount. Low 0-10 (26) | Amount. Total 0-10 (27) | Height of Base (feet) (28) | State of Ground. 0-9 (29) | Sea. 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1005·9 | +26 | WSW | 6 | b | 54 | 55 | 7 | 5 | - | - | 1 | 1 | 1500 | 1 | • |
| | Croydon | 1005·4 | +10 | W | 7 | bc | 55 | 55 | 7 | 5 | - | 1 | 2-3 | 2-3 | 1500 | 1 | • |
| | S. Farnborough | 1006·9 | +30 | W | 6 | bc | 53 | 65 | 8 | 5 | - | - | 2-3 | 2-3 | 1500 | 1 | • |
| | Winchester | 1007·8 | +26 | W | 6 | bc | 53 | 65 | 8 | 5 | - | - | 4-6 | 4-6 | 1500 | 1 | • |
| | Boscombe Down | 1008·5 | +30 | W | 6 | bc | 52 | 75 | 7 | 5 | 4 | - | 2-3 | 4-6 | 1500 | 1 | • |
| | Calshot, S'thmtn | 1008·4 | +10 | WSW | 6 | b | 56 | 65 | 7 | 5 | - | - | 1 | 1 | 1500 | 0 | 3 |
| | Dungeness | * | * | SW | 8 | bc | * | * | 6 | 8 | - | * | 4-6 | 4-6 | 1500 | * | 5 |
| | Lympne | 1004·7 | -2 | W'S | 6 | bc | 54 | 95 | 7 | 5 | - | - | 2-3 | 2-3 | 800 | 1 | • |
| 2 | Shoeburyness | 1003·4 | +10 | W'S | 8 | bcq | 56 | 65 | 8 | 5 | - | - | 2-3 | 2-3 | 2500 | 1 | • |
| | Felixstowe | 1001·6 | +10 | W'N | 6 | bc | 57 | 65 | 8 | 5 | - | - | 2-3 | 2-3 | 800 | 0 | 4 |
| | Gorleston | 997·7 | +4 | WNW | 6 | bc | 57 | 95 | 7 | 3 | - | - | 2-3 | 2-3 | 2500 | 0 | 4 |
| | Cranwell | 998·4 | +20 | W'S | 6 | bcq | 51 | 65 | 7 | 8 | - | - | 2-3 | 2-3 | 1500 | 1 | • |
| 3 | Birmingham | 1003·0 | +24 | W | 5 | cq | 52 | 55 | 8 | 6 | - | - | 9+ | 9+ | 800 | 1 | • |
| | Upper Heyford | 1004·5 | +28 | W'S | 7 | bc | 51 | 65 | 7 | 5 | - | - | 4-6 | 4-6 | 1500 | 1 | • |
| | Leafield | 1004·5 | +20 | W'S | 6 | b | 49 | 65 | 8 | 6 | - | - | 1 | 1 | 1500 | 1 | • |
| 4 | Ross-on-Wye | 1004·6 | +24 | W'S | 7 | bq | 51 | 55 | 7 | 1 | - | - | Tr. | Tr. | 4000 | 1 | • |
| 5 | Portland Bill | 1010·1 | +24 | W'S | 8 | bc | 55 | 65 | 7 | 4 | 4 | - | 2-3 | 4-6 | 2500 | 1 | 7 |
| | Plymouth | 1013·5 | +40 | WNW | 6 | - | 54 | 65 | 7 | 5 | - | - | 7-8 | 7-8 | 800 | 1 | 4 |
| | Falmouth | 1014·0 | +36 | W | 7 | bcq | 53 | 85 | 6 | 3 | - | - | 2-3 | 2-3 | 4000 | 1 | 5 |
| | Scilly (St. Mary's) | 1015·4 | +34 | W'N | 8 | b | 53 | 75 | 6 | 1 | - | - | 1 | 1 | 4000 | 1 | 5 |
| | Guernsey | 1015·0 | +24 | W'N | 6 | bq | 55 | 75 | 7 | - | - | - | 0 | 0 | - | 1 | 4 |
| 6 | Pembroke | 1004·5 | +20 | SW | 9 | pr₀ | 52 | 85 | 6 | 5 | 6 | - | 4-6 | 4-6 | 1500 | 1 | 5 |
| 7 | Holyhead | 999·8 | +14 | W'S | 9 | cq | 52 | 65 | 6 | 5 | - | 1 | 7-8 | 9 | 2500 | 1 | 5 |
| | Chester (Sealand) | 999·2 | +16 | W'S | 6 | bc | 52 | 55 | 8 | 5 | - | - | 2-3 | 2-3 | 1500 | 1 | • |
| 8 | L'pool (Bidston) | 997·1 | +10 | W | 9 | oq | 51 | 55 | 8 | 5 | - | - | 10 | 10 | 1500 | 0 | • |
| 9 | Harrogate | 994·7 | +26 | SW | 7 | pr | 47 | 75 | 7 | 6 | - | - | 4-6 | 4-6 | 2500 | 1 | • |
| 10 | Spurn Head | 992·7 | +6 | WNW | 8 | bcq | 50 | 75 | 7 | - | 2 | - | 0 | 4-6 | - | 0 | 5 |
| | Catterick | 993·1 | +30 | WSW | 5 | pr | 48 | 75 | 7 | 9 | - | - | 2-3 | 2-3 | 1500 | 1 | • |
| | Tynemouth | 990·1 | -16 | W | 5 | o | 48 | 85 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | 2 |
| 11 | Inchkeith | 987·9 | +6 | WSW | 6 | bc | 44 | 95 | 7 | 5 | 3 | - | 2-3 | 4-6 | 2500 | 0 | 4 |
| | Leuchars | 988·9 | +18 | WNW | 4 | r₀r₀ | 44 | 85 | 7 | 6 | 7 | - | 7-8 | 9+ | 1500 | 1 | • |
| 12 | Renfrew | 991·6 | +22 | WNW | 3 | cr₀ | 44 | 85 | 6 | 6 | - | - | 9 | 9 | 1500 | 1 | • |
| | Eskdalemuir | 991·4 | +12 | WSW | 5 | rr | 44 | 85 | 6 | 6 | 2 | - | 9 | 10 | 800 | 1 | • |
| 13A | Tiree | 991·9 | +46 | WNW | 6 | pr | 47 | 75 | 7 | 8 | 2 | - | 7-8 | 9+ | 1600 | 1 | 5 |
| 13B | Stornoway | 987·4 | +24 | NW | 2 | c | 43 | 95 | 8 | 9 | 2 | - | 7-8 | 9+ | 1500 | 1 | • |
| 15 | Dalwhinnie | 988·7 | +8 | SW | 4 | r | 39 | 85 | 5 | 6 | - | - | 10 | 10 | 2500 | 1 | • |
| | Aberdeen | 987·2 | +18 | W | 2 | c | 46 | 65 | 6 | 5 | 7 | - | 2-3 | 9+ | 2500 | 1 | 1 |
| | Wick | 985·0 | +24 | W | 3 | c | 41 | 95 | 8 | 9 | 1 | - | 4-6 | 7-8 | 1500 | 1 | 3 |
| 16 | Lerwick | 981·5 | +36 | NW | 3 | r₀r₀ | 39 | 85 | 7 | 6 | - | - | 10 | 10 | 1500 | 2 | • |
| 17 | Blacksod Point | 1004·8 | +08 | SW | 7 | c | 47 | 75 | 7 | 4 | - | - | 7-8 | 7-8 | <150 | 0 | 5 |
| 18 | Malin Head | 995·7 | +72 | WNW | 5 | c/pr | 47 | 75 | 7 | 9 | - | - | 9+ | 9+ | 1500 | 1 | 4 |
| | Aldergrove | 994·9 | +34 | W | 4 | c/pr | 47 | 95 | 7 | 8 | - | - | 10 | 10 | 1500 | 1 | • |
| | Donaghadee | 993·9 | +24 | SW | 3 | pr₀ | 47 | 85 | 7 | 8 | - | - | 7-8 | 7-8 | 1500 | 1 | 2 |
| 19 | Birr Castle | 1001·3 | +30 | W | 7 | cq | 50 | 75 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | • |
| 20 | Valentia Obsy. | 1012·5 | +48 | W'S | 7 | bc | 51 | 65 | 8 | 8 | 3 | - | 2-3 | 4-6 | 2500 | 1 | 7 |
| | Roches Point | 1008·6 | +44 | NW | 6 | bc | 56 | 75 | 8 | 3 | - | - | 4-6 | 4-6 | 2500 | 0 | 5 |

### PAST 24 HOURS.

| District | Stations | Weather. 7h.–13h. 4th (37) | 13h.–18h. 4th (38) | 18h. 4th–1h. 5th (39) | 1h.–7h. 5th (40) |
|---|---|---|---|---|---|
| 1 | London (Kew) | c | cr₀bq | bq | bc |
| | Croydon | bcqr₀r₀ | cdbcq | bqy | b,c |
| | S. Farnborough | cbcoc | cr₀db | b | bbcc |
| | Winchester | cm₀c | cprqbc | bc | bcc |
| | Boscombe Down | cr₀ | ccrq | bcbqb | bbcc |
| | Calshot, S'thmtn | ccr₀q | cm₀bc | byq | bbcc |
| | Dungeness | bc | bc | • | bc |
| | Lympne | pr₀cq | sd₀qbc | bcb | bcc |
| 2 | Shoeburyness | ocm₀bc | bcr₀q | bq | bq,c |
| | Felixstowe | bc | bcur₀q | bcq | bc |
| | Gorleston | ocr₀bcq | bccbcq | bcq | bcq |
| | Cranwell | bcm₀c | bccb | b,cpr b | cm₀b |
| 3 | Birmingham | c | cq | cbc | bc |
| | Upper Heyford | cbccr | d₀d₀cbcq | bcbq | bbcw |
| | Leafield | cqr₀ | ccr₀bc | bq | bcc |
| 4 | Ross-on-Wye | bcqcq | bccb | bq | bbcc |
| 5 | Portland Bill | ccd₀zq | ccd₀cbc | b | bbc |
| | Plymouth | cm₀cd₀ | d₀d₀cm₀ | c | c |
| | Falmouth | ocDmq | omdbcq | bcq | bcc |
| | Scilly (St. Mary's) | d₀m₀o | dbcb | bbc | bcc |
| | Guernsey | oqddo | cqdbc | bc | bcc |
| 6 | Pembroke | cqcr | bcpr₀ | oq | c |
| 7 | Holyhead | bq,r₀c | cbccqm₀ | bcbcq | bc |
| | Chester (Sealand) | ccr₀ | r₀bzqy | bcr₀b | bbc |
| 8 | L'pool (Bidston) | cqpqDqp | cqpr | Qp₀b | bcvcv |
| 9 | Harrogate | qcbp | cbqp | cbQp | cbQp |
| 10 | Spurn Head | bcq | bcq | bcq | bcqbc |
| | Catterick | bcprv | cprq | prbcq | bcq |
| | Tynemouth | bcq | bcopcq | obcq | bcq |
| 11 | Inchkeith | bcc | cbc | bc | bc |
| | Leuchars | bcprcq | bcqr₀r₀ | cir₀bc | bcqpb |
| 12 | Renfrew | r₀cr₀ | ccr₀m₀ | bcepnq | bccpr |
| | Eskdalemuir | cr | crcr | crbcpr | cpr bc |
| 13A | Tiree | ccr | crqc | irRb | ire |
| 13B | Stornoway | cpr₀ | cpr₀ | cPRq | bccPR |
| 15 | Dalwhinnie | r | r | | r |
| | Aberdeen | bcb | bcc | cz₀bc | crbcb |
| | Wick | cpr₀ | cpr₀ | bcpr₀ | bcl pr₀ |
| 16 | Lerwick | ocr₀cpr | cpr,or₀r₀ | or₀r₀bcpr | bcpr |
| 17 | Blacksod Point | pcq | cq | cqbcq | pr |
| 18 | Malin Head | c | crr | cpr lbcpr | bcc |
| | Aldergrove | bcp₀DD | r₀qpr₀ | cl | cbc |
| | Donaghadee | cpr₀ | cpr₀ | bcq | bcq b |
| 19 | Birr Castle | cprcq | cq | cbcpr | bcprbc |
| 20 | Valentia Obsy. | or₀r₀c | cbcp₀bc | pr₀cyc | c |
| | Roches Point | bcpc | bc | bcb | bbc |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
|P, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight: repetition of letters indicates continuity: thus. R, heavy rain. $r_o$, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ⦶, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than 1/10 of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

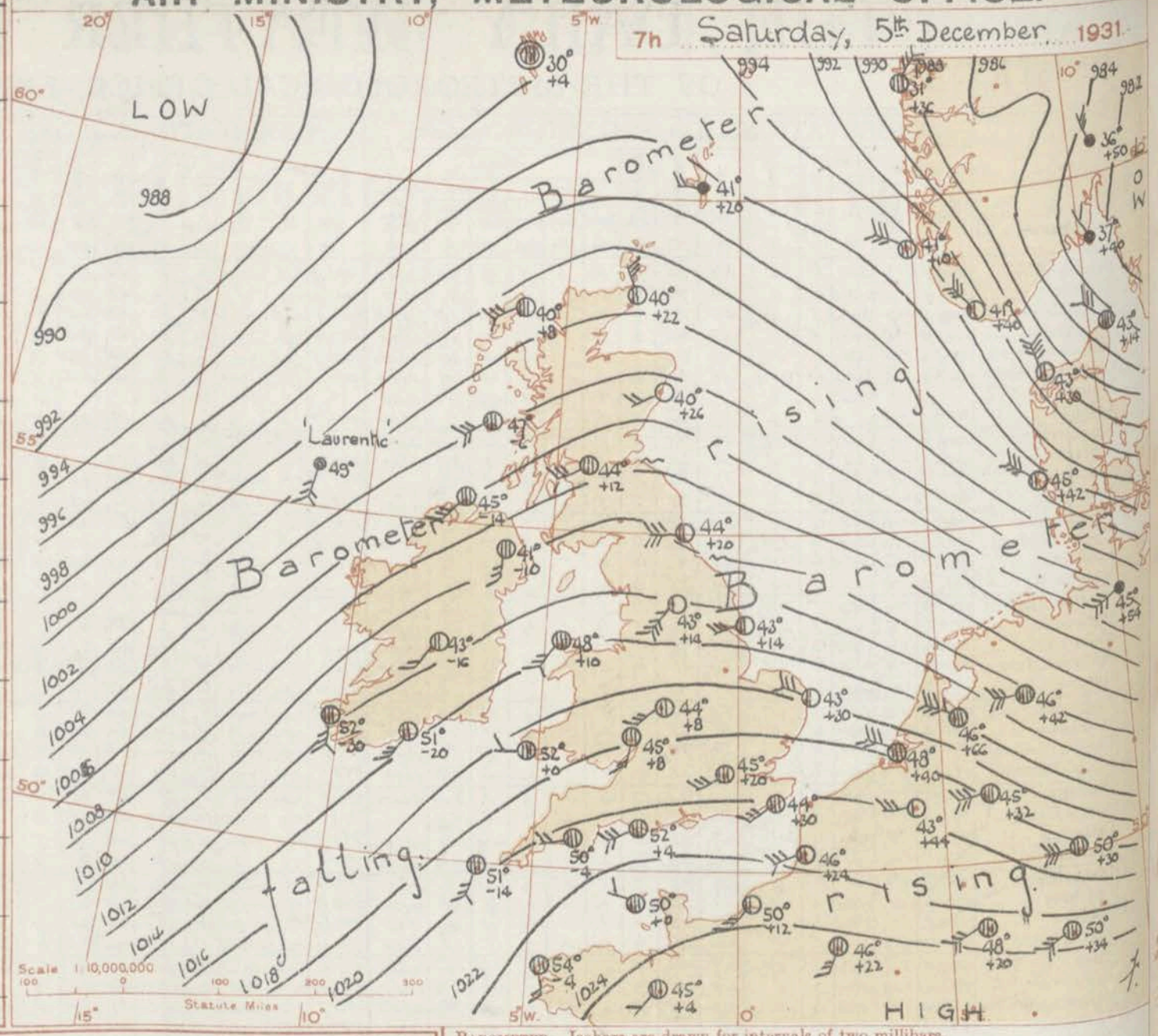
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

# AIR MINISTRY, METEOROLOGICAL OFFICE.

## REPORTS from HEALTH RESORTS for 4th December 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 3rd to 9h. 4th. | Temperature. Max. 9h.—17h. 4th. | Rainfall. Night. 17h. 3rd to 9h. 4th. | Rainfall. Day. 9h.—17h. 4th. | Sunshine. Sunrise to Sunset, 3rd. |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | bcc | odo | 43 | 58 | 0·3 | 0·3 | 3·2 |
| | Bournemouth | co | o | 49 | 58 | 0·3 | - | 1·0 |
| | Ventnor ... | roudd | obc | 47 | 56 | 0·5 | trace | 0·0 |
| | Southsea ... | bcb | bbc | 47 | 58 | - | - | 1·2 |
| | Bognor Regis | rc bcc | c | 46 | 56 | 0·3 | Trace | 0·4 |
| | Littlehampton | bcc | cbc | 46 | 56 | 0·1 | - | 1·3 |
| | Worthing ... | cbc | odc | 46 | 57 | Trace | Trace | 1·8 |
| | Brighton ... | cbc | rc | 46 | 56 | 0·2 | Trace | 2·1 |
| | Eastbourne† | cbco | odcb | 52 | 56 | 2 | Trace | 2·4 |
| | Hastings† ... | bcbc | codo | 51 | 58 | 1 | 0·3 | 1·3 |
| | Folkestone ... | rocbc | bcco | 43 | 58 | 2 | - | 2·2 |
| | Dover... ... | cbo | ido | 40 | 59 | 1 | Trace | 3·0 |
| | Deal ... ... | ocb | bco | 41 | 59 | - | - | 3·1 |
| | Ramsgate ... | bc | bc | 40 | 61 | - | - | 3·2 |
| | Margate ... | cbc | bc | 41 | 61 | - | - | 3·4 |
| 2 | Southend ... | bcb | oc | 43 | 58 | Trace | - | 3·2 |
| | Maldon ... | cbc | bcdc | 48 | 60 | - | Trace | 3·0 |
| | Clacton-on-Sea | cbcc | c | 41 | 58 | - | - | 3·8 |
| | Dovercourt ... | cbc | bc | 46 | 60 | Trace | - | 3·8 |
| | Lowestoft ... | cibibbc | odc | 40 | 57 | 0·4 | Trace | 3·4 |
| | Skegness ... | obc | bco | 41 | 58 | 4 | - | 2·9 |
| | Mablethorpe | bc | bc | 42 | 57 | - | - | 4·4 |
| | Cleethorpes ... | bgc | cg | 42 | 57 | Trace | - | 3·9 |
| 3 | Leamington S. | bcc | c | 49 | 60 | - | - | 1·0 |
| 4 | Cheltenham† | bccu | cioc | 49 | 56 | Trace | - | 0·4 |
| 5 | Bath ... ... | gcbc | bg | 52 | 60 | 0·3 | 0·3 | 0·0 |
| | Weymouth ... | c | cbg | 52 | 57 | Trace | - | 0·3 |
| | Jersey ... | rgc | dc | 46 | 58 | 2 | 0·1 | 0·0 |
| | Torquay ... | cpcg | odgcg | 53 | 59 | 0·3 | Trace | 0·0 |
| | Penzance ... | oc | cro | 53 | 57 | 3 | 0·2 | 0·0 |
| | St. Ives ... | b | b | 50 | 58 | 1 | 0·5 | 0·1 |
| | Bude ... ... | roc | cor | 52 | 56 | 1 | 1 | 0·0 |
| | Ilfracombe ... | or | o | 52 | 57 | 2 | 0·5 | 0·0 |
| 6 | Aberystwyth | crcm | cidc | 48 | 55 | 0·5 | 1 | 0·0 |
| 7 | Llandudno ... | circ | rgcu | 47 | 58 | 1 | 1 | 0·1 |
| | Colwyn Bay . | bcrro | ococ | 48 | 60 | 0·6 | 1 | 0·1 |
| | Rhyl ... .. | cprg | cgbc | 48 | 60 | 0·4 | 0·5 | 0·0 |
| 8 | Wallasey ... | cp | pc | 48 | 59 | 0·5 | 1 | 0·0 |
| | Southport‖ ... | coroco | ptgocg | 46 | 54 | 2 | 4 | 0·0 |
| | Blackpool ... | org | ocg | 46 | 55 | 3 | 7 | 0·0 |
| | Morecambe ... | rpcrc | rrcro | 45 | 53 | 7 | 10 | 0·0 |
| 9 | Ilkley... ... | circ | irc | 45 | 54 | 4 | 4 | 0·0 |
| 10 | Berwick-on-T. | bcrg | o | 43 | 50 | - | trace | 0·5 |
| 11 | Dunbar ... | bc | bcrg | 44 | 49 | - | trace | 0·2 |
| 12 | Douglas ... | cbgc | ogircg | 47 | 54 | 3 | 2 | 0·4 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. ⚡ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 5th Dec. 1931. |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands | Wind southwesterly, moderate or fresh; mainly cloudy; perhaps rain during tonight or tomorrow; rather mild. |
| 4. W. Midlands<br>5. S.W. England<br>6. South Wales<br>7. North Wales | Wind southwest or south, moderate to strong; cloudy or dull, with some rain or drizzle; showers tomorrow; rather mild at first, cooler again later. |
| 8. N.W. England<br>9. N. Midlands<br>10. N.E. England<br>11. S.E. Scotland | Wind southwest or south, moderate or fresh; mainly cloudy; probably some rain later; moderate temperature. |
| 12. S.W. Scotland & Isle of Man<br>13. A. W. Scotld. B. N.W. Scotland. | Wind southwest or south, fresh or strong, veering later; cloudy; rain at times, or showers later; moderate temperature. |
| 14. Mid-Scotland<br>15. N.E. Scotland<br>16. Orkneys and Shetlands. | Wind westerly backing southwest or south, moderate or fresh, perhaps strong at times later; variable sky becoming cloudy or dull; some rain later; moderate temperature. |
| 17. N.W. Ireland<br>18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland | Wind southerly, fresh or strong, veering later; cloudy or dull with rain or drizzle today, showers later; rather mild at first, somewhat colder later. |

### GENERAL INFERENCE.

A flat wedge of high pressure is moving eastward across Great Britain. Secondaries to a complex depression south of Iceland will cause rain to occur at times in the West and North, and perhaps tonight or tomorrow in the East.

### FURTHER OUTLOOK.

Rather unsettled.

Time of issue of Gale Warning.

South cone at 1900 on 4th in district 20.

Forecasts issued at 1005 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.
⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 5th December 1931.

No. 25,580.

### OBSERVATIONS at 1 hr. G.M.T. 5th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) ... | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 217 | 1013.9 | -38 | WN | 5 | b | 49 | 65 | 7 | - | 4 | - | 0 | 1 | - |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester ... | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot (S'thmtn) | 8 | 1016.1 | +30 | WSW | 5 | b | 49 | 65 | 8 | - | - | - | 0 | 0 | - |
| | Dungeness ... | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne ... | 346 | 1013.6 | +40 | WN | 6 | b | 48 | 65 | 8 | - | - | - | 0 | 0 | - |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston ... | 14 | 1006.3 | +40 | NW | 5 | bc | 47 | 86 | 7 | 4 | - | - | 2.3 | 2.3 | 4000 |
| | Cranwell ... | 240 | 1009.6 | +60 | WN | 6 | c | 46 | 75 | 6 | 5 | - | - | 7.8 | 7.8 | 1500 |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield ... | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye ... | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill ... | 32 | 1018.0 | +40 | WS | 7 | b | 52 | 65 | 7 | - | - | - | 0 | 0 | - |
| | Plymouth ... | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth ... | 200 | 1020.5 | +8 | WS | 3 | bc | 50 | 85 | 8 | 6 | - | - | 2.3 | 2.3 | 4000 |
| | Scilly (St. Mary's) | 163 | 1021.3 | +14 | W | 5 | bc | 52 | 85 | 6 | 2 | 8 | - | 2.3 | 2.3 | 4000 |
| | Guernsey ... | 175 | 1021.2 | +24 | NW | 6 | bc | 52 | 75 | 7 | 1 | - | - | 4.6 | 4.6 | 2500 |
| 6 | Pembroke ... | 142 | 1016.2 | +20 | W | 5 | q | 51 | 85 | 7 | 3 | 6 | - | 4.6 | 10 | 1500 |
| 7 | Holyhead ... | 26 | 1012.9 | +36 | W | 6 | bc | 48 | 75 | 7 | - | - | 3 | 0 | 2.3 | - |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate ... | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head ... | 29 | 1004.7 | +34 | NNW | 7 | q | 47 | 75 | 7 | - | 7 | - | 0 | 2.3 | - |
| | Catterick ... | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth ... | 67 | 1002.9 | +42 | W | 3 | bc | 44 | 65 | 7 | 5 | - | - | 2.3 | 2.3 | 1500 |
| 11 | Inchkeith ... | 190 | 1000.7 | +30 | W | 8 | bc | 47 | 75 | 8 | 5 | - | - | 2.3 | 2.3 | 4000 |
| | Leuchars ... | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew ... | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree ... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway ... | 34 | 998.5 | +68 | W | 3 | bc | 44 | 85 | 7 | 3 | - | - | 2.3 | 2.3 | 1500 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen ... | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick ... | 81 | 994.3 | +40 | NW | 3 | bc | 40 | 86 | 8 | 9 | 1 | - | 4.6 | 4.6 | 1500 |
| 16 | Lerwick ... | 54 | 990.0 | +40 | WN | 3 | bc/pr | 38 | 85 | 7 | 8 | - | - | 4.6 | 4.6 | 1500 |
| 17 | Blacksod Point | 18 | 1010.9 | +10 | W | 6 | bc | 49 | 65 | 7 | 4 | 6 | - | 4.6 | 4.6 | <150 |
| 18 | Malin Head ... | 52 | 1007.2 | +26 | WNW | 4 | bc/p | 45 | 85 | 7 | 3 | - | - | 2.3 | 2.3 | 1500 |
| | Aldergrove ... | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee ... | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1010.6 | 0 | WSW | 5 | bc | 51 | 85 | 8 | 4 | - | - | 4.6 | 4.6 | 2500 |
| | Roches Point ... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 5th December

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) ... | 1019.4 | +26 | SW'S | 3 | c | 44 | 85 | 7 | - | 3 | 1 | 0 | 9 | - | 1 | * |
| Croydon ... | 1019.3 | +30 | WSW | 3 | c | 45 | 75 | 7 | - | 3 | - | 0 | 9 | - | 1 | * |
| S. Farnborough | 1019.3 | +14 | SW'S | 2 | c | 43 | 85 | 7 | 5 | - | - | 9 | 9 | 5700 | 1 | * |
| Winchester ... | 1019.6 | +6 | WSW | 2 | c | 43 | 85 | 7 | 5 | - | - | 7-8 | 7-8 | 4000 | 1 | * |
| Boscombe Down | 1019.5 | +6 | SW | 4 | c | 42 | 95 | 7 | 5 | - | - | 9 | 9 | 2500 | 1 | * |
| Calshot (S'thmtn) | 1019.9 | +10 | SW'W | 4 | c | 48 | 75 | 8 | 5 | - | - | 7-8 | 7-8 | 4000 | 0 | 2 |
| Dungeness ... | * | * | WSW | 3 | bc | * | * | 7 | 7 | 3 | * | 2-3 | 4-6 | 2500 | * | 3 |
| Lympne ... | 1020.7 | +30 | W'S | 3 | c | 44 | 85 | 8 | - | 5 | - | 0 | 9+ | - | 1 | * |
| Shoeburyness | 1019.3 | +30 | SW | 2 | c | 44 | 95 | 8 | - | 5 | - | 0 | 7-8 | - | 0 | * |
| Felixstowe ... | 1018.1 | +40 | W | 4 | c | 45 | 75 | 8 | - | - | 9 | 0 | 7-8 | - | 0 | 3 |
| Gorleston ... | 1015.2 | +30 | WNW | 4 | bc | 43 | 85 | 7 | - | 4 | 8 | 0 | 4-6 | - | 0 | 2 |
| Cranwell ... | 1015.6 | +24 | SW'W | 4 | b | 41 | 85 | 7 | - | - | 1 | 0 | 1 | - | 1 | * |
| Birmingham ... | 1016.9 | +8 | WSW | 3 | bc | 44 | 75 | 8 | - | - | 2 | 0 | 4-6 | - | 1 | * |
| Upper Heyford | 1018.0 | +26 | WSW | 3 | c | 40 | 85 | 8 | 5 | 3 | 6 | 2-3 | 7-8 | 4000 | 1 | * |
| Leafield ... | 1017.3 | +10 | W'S | 4 | c | 42 | 75 | 8 | - | 7 | 6 | 0 | 9 | - | 1 | * |
| Ross-on-Wye ... | 1017.8 | +8 | SSW | 2 | c | 45 | 75 | 7 | - | 7 | - | 0 | 9+ | - | 1 | * |
| Portland Bill ... | 1021.1 | +4 | W'S | 5 | c | 52 | 75 | 7 | 4 | 2 | - | 7-8 | 10 | 1500 | 1 | 4 |
| Plymouth ... | 1020.8 | -4 | W | 2 | c | 50 | 75 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 1 | 1 |
| Falmouth ... | 1020.5 | -4 | SW | 1 | c | 49 | 85 | 8 | 8 | 2 | - | 4-6 | 7-8 | 4000 | 0 | 2 |
| Scilly (St. Mary's) | 1020.0 | -14 | SW'S | 4 | c | 51 | 95 | 6 | 5 | 7 | - | 4-6 | 9+ | 4000 | 1 | 3 |
| Guernsey ... | 1022.6 | 0 | WNW | 1 | c | 50 | 85 | 7 | 7 | 4 | - | 4-6 | 7-8 | 2500 | 0 | 3 |
| Pembroke ... | 1016.9 | 0 | WSW | 4 | c | 52 | 85 | 7 | 4 | 6 | - | 4-6 | 7-8 | 1500 | 0 | 3 |
| Holyhead ... | 1015.1 | +6 | SW | 4 | c | 48 | 75 | 8 | 5 | 1 | - | 4-6 | 7-8 | 2500 | 1 | 2 |
| Chester (Sealand) | 1015.7 | +14 | S'E | 2 | bc | 41 | 85 | 7 | - | 4 | 1 | 0 | 4-6 | - | 1 | * |
| L'pool (Bidston) | 1014.6 | +12 | W | 4 | c | 46 | 75 | 9 | 5 | - | - | 7-8 | 7-8 | 2500 | 0 | * |
| Harrogate ... | 1011.5 | +14 | SW | 7 | q | 43 | 85 | 7 | 1 | - | 1 | Tr | Tr | 4000 | 1 | * |
| Spurn Head ... | 1012.9 | +14 | W | 3 | bc | 43 | 85 | 7 | 1 | 3 | - | 2-3 | 4-6 | 4000 | 0 | 2 |
| Catterick ... | 1010.9 | +14 | W | 6 | q | 44 | 85 | 7 | 5 | - | 4 | Tr | 4-6 | 4000 | 1 | * |
| Tynemouth ... | 1008.1 | +20 | W | 6 | bc | 44 | 85 | 7 | 2 | - | - | 4-6 | 4-6 | 2500 | 0 | 3 |
| Inchkeith ... | 1008.6 | +18 | W | 8 | bc | 45 | 85 | 8 | 5 | - | - | 4-6 | 4-6 | 2500 | 0 | 4 |
| Leuchars ... | 1006.8 | +38 | NW | 3 | b | 36 | 95 | 8 | 7 | - | - | Tr | Tr | 2500 | 1 | * |
| Renfrew ... | 1008.4 | +12 | WSW | 4 | c | 44 | 85 | 6 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| Eskdalemuir ... | 1010.0 | +16 | SW | 5 | bc | 39 | 85 | 8 | 5 | - | - | 2-3 | 2-3 | 1500 | 1 | * |
| Tiree ... | 1004.3 | -6 | SW | 5 | c | 47 | 65 | 8 | 5 | 2 | - | 7-8 | 9+ | 2500 | 0 | 3 |
| Stornoway ... | 1000.4 | +8 | WSW | 4 | c/pr | 40 | 95 | 7 | 9 | 2 | - | 7-8 | ~~7-8~~ | 1500 | 1 | 3 |
| Dalwhinnie ... | 1006.6 | +20 | SW | 3 | c | 37 | 85 | 7 | 4 | 2 | - | 2-3 | 7-8 | 1500 | 1 | * |
| Aberdeen ... | 1004.5 | +26 | WSW | 2 | b | 40 | 75 | 8 | - | - | - | 0 | 0 | - | 1 | 1 |
| Wick ... | 1001.2 | +22 | NW | 3 | bc/pr | 40 | 85 | 8 | 8 | 1 | - | 4-6 | 4-6 | 1500 | 1 | 3 |
| Lerwick ... | 986.4 | +20 | W | 2 | rr | 41 | 75 | 6 | 8 | - | - | 10 | 10 | 1500 | 1 | * |
| Blacksod Point | 1003.5 | -36 | SW'W | 8 | u | 50 | 85 | 7 | 9 | - | - | 10 | 10 | <150 | 1 | 6 |
| Malin Head ... | 1005.8 | -14 | SW | 8 | c | 45 | 85 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 0 | 3 |
| Aldergrove ... | 1010.5 | -10 | S | 3 | c | 41 | 85 | 7 | 5 | 1 | 7 | 2-3 | 9+ | 1500 | 1 | * |
| Donaghadee ... | 1010.3 | 0 | W | 3 | bc | 41 | 85 | 7 | 5 | - | - | 2-3 | 2-3 | 2500 | 0 | 2 |
| Birr Castle ... | 1011.2 | -16 | SW | 2 | bc | 43 | 85 | 8 | 5 | - | - | 4-6 | 4-6 | 2500 | 1 | * |
| Valentia Obsy.† | 1012.2 | -30 | S | 4 | c | 52 | 85 | 8 | 5 | 2 | - | 4-6 | 10 | 2500 | 1 | * |
| Roches Point ... | 1018.3 | -20 | SW | 3 | bc | 51 | 95 | 8 | 3 | - | - | 4-6 | 4-6 | 1500 | 0 | 3 |

### PAST 24 HOURS.

| Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F. (32) | Temperature Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 48h Hrs. (36) |
|---|---|---|---|---|---|---|
| London (Kew) ... | 60 | 43 | 38 | Tr. | - | 1.8 |
| Croydon ... | 59 | 44 | 41 | 0.1 | - | 1.9 |
| S. Farnborough | 60 | 42 | 37 | Tr. | - | 2.1 |
| Winchester ... | 59 | 41 | 37 | 0.3 | - | 1.3 |
| Boscombe Down | 58 | 41 | 36 | Tr. | - | * |
| Calshot (S'thmtn) | 58 | 46 | 41 | Tr. | - | 0.4 |
| Dungeness ... | 57 | 45 | * | Tr. | - | * |
| Lympne ... | 56 | 41 | 36 | Tr. | - | 0.8 |
| Shoeburyness | 59 | 42 | 39 | Tr. | - | 3.1 |
| Felixstowe ... | 60 | 43 | 36 | Tr. | - | 3.7 |
| Gorleston ... | 59 | 43 | 39 | Tr. | - | 3.0 |
| Cranwell ... | 58 | 40 | 37 | - | Tr. | 2.7 |
| Birmingham ... | 59 | 43 | 40 | - | - | 0.6 |
| Upper Heyford | 57 | 40 | 35 | Tr. | - | * |
| Leafield ... | 56 | 41 | 32 | Tr. | - | 0.9 |
| Ross-on-Wye ... | 59 | 45 | 38 | - | - | 1.2 |
| Portland Bill ... | 56 | 51 | * | Tr. | Tr. | * |
| Plymouth ... | 57 | 49 | | 0.3 | - | 0.0 |
| Falmouth ... | 56 | 48 | * | .1 | 0.2 | 0.0 |
| Scilly (St. Mary's) | 56 | 50 | * | 0.2 | - | 1.3 |
| Guernsey ... | 57 | 50 | 41 | 0.4 | - | 0.0 |
| Pembroke ... | 56 | 50 | * | 1 | - | 0.0 |
| Holyhead ... | 57 | 47 | 43 | Tr. | Tr. | 0.2 |
| Chester (Sealand) | 60 | 41 | 35 | Tr. | 0.1 | 0.6 |
| L'pool (Bidston) | 58 | 4~~2~~5 | 42 | 0.6 | 0.2 | 0.1 |
| Harrogate ... | 53 | 42 | 39 | 2 | 3 | 0.3 |
| Spurn Head ... | 56 | 43 | * | - | - | 3.0 |
| Catterick ... | 54 | 43 | 38 | 3 | 1 | * |
| Tynemouth ... | 56 | 43 | 38 | 0.4 | - | * |
| Inchkeith ... | 49 | 42 | 39 | Tr. | - | 0.7 |
| Leuchars ... | 50 | 36 | 30 | 0.6 | Tr. | 1.3 |
| Renfrew ... | 49 | 41 | 36 | 2 | 1 | 0.0 |
| Eskdalemuir ... | 47 | 37 | 34 | 6 | 2 | 0.0 |
| Tiree ... | 50 | 43 | 39 | 2 | 1 | 0.0 |
| Stornoway ... | 48 | 39 | * | 2 | 7 | 0.4 |
| Dalwhinnie ... | 48 | 33 | 33 | 4 | 12 | 0.0 |
| Aberdeen ... | 48 | 39 | 34 | - | 0.3 | 2.4 |
| Wick ... | 48 | 37 | * | 0.4 | Tr. | * |
| Lerwick ... | 48 | 37 | * | 5 | 2 | 0.0 |
| Blacksod Point | 54 | 42 | * | 2 | 2 | * |
| Malin Head ... | 51 | 43 | * | 4 | 1 | 0.1 |
| Aldergrove ... | 49 | 39 | 34 | 1 | - | 0.0 |
| Donaghadee ... | 51 | 40 | * | 1 | Tr. | * |
| Birr Castle ... | 57 | 39 | 32 | 1 | 1 | 0.2 |
| Valentia Obsy.† | ~~[illegible]~~ 57 | 47 | 43 | 1 | Tr. | 0.0 |
| Roches Point ... | 56 | 46 | * | 1 | - | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon (24 hrs. ended 9h.) | Weather Night (24 hrs. ended 9h.) | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. (To-day) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew ... | 18 | c | c; bq | bq bc | 60 | 43 | 38 | Tr. | - | 1.8 | * | * | 6 |
| Croydon ... | 217 | bcq r; r | cdbcq | bq bc | 59 | 44 | 41 | 0.1 | - | 1.9 | * | * | 6 |
| Greenwich (Royal Observatory) ... | 149 | cq | cdb | b c | 60 | 43 | 33 | Tr. | - | 2.5 | 89 | 75 | 5 |
| City (Bunhill Row) ... | — | * | * | * | * | * | * | * | * | 2.1 | * | * | * |
| Westminster (St. James' Park) ... | 27 | * | * | * | 59 | 44 | 37 | | - | 2.7 | 88 | 74 | * |
| Regents Pk. (Botanic Gardens) ... | 168 | * | * | * | * | * | * | * | * | 2.1 | * | * | * |
| Camden Square ... | 110 | bc | ccrc | * | 59 | 44 | 37 | Tr. | - | * | * | 79 | * |
| Kensington ... | 80 | bccsdr | bc | * | 60 | 44 | 36 | - | - | 2.1 | At 18h. 62 | 81 | * |
| Hampstead Observatory ... | 450 | bcor | bc | * | 57 | 39 | 33 | 0.3 | - | 1.7 | * | 83 | * |

### Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 5th.

| South Kensington Max. | Time. | Min. | Time. | Kew Observatory Max. | Time. | Min. | Time. |
|---|---|---|---|---|---|---|---|
| 0.6 | 16h. 4th | nil | 0.6 5th | 0.1 | 16h. 4th. | <0.1 | 1h. 5th. |

### FOREIGN OBSERVATIONS.

18h. G.M.T. 4th December

| Stations | Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. |
|---|---|---|---|---|---|
| Paris ... | 1014.9 | SW | 6 | o | 53 |
| Brussels ... | 1005.9 | W'S | 6 | d.d. | 55 |
| Berlin ... | 997.3 | SSW | 4 | o | 41 |
| Zürich ... | 1021.6 | W | 5 | rr | 50 |
| Rome ... | 1016.2 | - | 0 | F+ | 39 |

7h. G.M.T. 5th December

| Stations | Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day. mm. | Rainfall Night. mm. |
|---|---|---|---|---|---|---|---|---|---|
| Paris ... | 1024.3 | SW | 3 | c | 52 | 59 | 46 | - | Tr |
| Brussels ... | 1013.8 | W | 3 | b | 43 | 57 | 43 | 0.5 | Tr |
| Berlin ... | 998.2 | W | 5 | ic | 46 | 41 | 41 | 4 | 4 |
| Zürich ... | | | | | | 52 | | 4 | |
| Rome ... | 1014.7 | SSE | 1 | b | 45 | 41 | 30 | - | - |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13–18 | 9 | 47–54 |
| 1 | 1–3 | 5 | 19–24 | 10 | 55–63 |
| 2 | 4–7 | 6 | 25–31 | 11 | 64–75 |
| 3 | 8–12 | 7 | 32–38 | 12 | 75 |
| | | 8 | 39–46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility**

| | Objects not visible at |
|---|---|
| 0 Dense fog | 55 yards. |
| 1 Thick fog | 220 " |
| 2 Fog | 550 " |
| 3 Moderate fog | 1,100 " |
| 4 Mist or haze | 1½ miles. |
| 5 Poor visibility | 2½ " |
| 6 Moderate " | 6½ " |
| 7 Good " | 12½ " |
| 8 Very good " | 31 " |
| 9 Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | |
|---|---|
| 0 Calm. | 5 Very rough. |
| 1 Smooth. | 6 High. |
| 2 Slight. | 7 Very high. |
| 3 Moderate. | 8 Precipitous. |
| 4 Rough. | 9 Confused. |

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

Page 1.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 6th December 1931.

No. 25,581

### OBSERVATIONS at 13h. G.M.T. 5th December

| District | Stations (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew)... | 1017.0 | -30 | SSW | 3 | c | 50 | 75 | 5 | 5 | 7 | – | 4.6 | 9 | 4000 |
| | Croydon ... | 1017.5 | -26 | SSW | 4 | c | 49 | 85 | 6 | – | 7 | – | 0 | 9+ | – |
| | S. Farnborough | 1016.9 | -34 | S'W | 3 | c | 49 | 85 | 6 | 5 | 2 | – | 10 | 10 | 5700 |
| | Winchester ... | 1016.8 | -30 | S'W | 3 | c | 49 | 85 | 6 | 5 | 2 | – | 9 | 10 | 4000 |
| | Boscombe Down | 1016.2 | -38 | S | 3 | iro | 49 | 85 | 6 | 6 | 2 | – | 4.6 | 10 | 2500 |
| | Calshot, S'thmtn | 1018.6 | -16 | SWS | 3 | c | 52 | 75 | 6 | 5 | 7 | – | 2.3 | 9+ | 1500 |
| | Dungeness ... | * | * | SW | 3 | c | * | * | 7 | 5 | 1 | * | 4.6 | 9+ | 2500 |
| | Lympne ... | 1019.1 | -18 | SW | 3 | c | 47 | 85 | 6 | – | 7 | – | 0 | 10 | – |
| 2 | Shoeburyness | 1017.8 | -16 | SW | 4 | c | 48 | 85 | 6 | 5 | 2 | – | 7.8 | 9+ | 4000 |
| | Felixstowe ... | 1017.9 | -20 | SW | 3 | c | 47 | 85 | 8 | – | 7 | 1 | 0 | 9 | – |
| | Gorleston ... | 1015.3 | -10 | WSW | 3 | c | 46 | 85 | 6 | 4 | 2 | 8 | 4.6 | 9 | 4000 |
| | Cranwell ... | 1014.0 | -20 | S'W | 4 | c | 45 | 75 | 7 | 5 | 2 | – | 4.6 | 10 | 5700 |
| 3 | Birmingham ... | 1013.8 | -24 | SSW | 4 | c/p | 46 | 75 | 6 | 6 | 1 | – | 4.6 | 9+ | 1500 |
| | Upper Heyford | 1015.9 | -26 | SSW | 3 | c | 46 | 85 | 6 | 5 | – | – | 10 | 10 | 2500 |
| | Leafield ... | 1015.2 | -16 | S | 3 | c | 45 | 85 | 8 | 5 | – | – | 10 | 10 | 4000 |
| 4 | Ross-on-Wye ... | 1013.6 | -28 | SW'S | 2 | iro | 48 | 75 | 7 | 6 | 2 | – | 1 | 10 | 2500 |
| 5 | Portland Bill... | 1015.4 | -36 | S | 5 | ido | 53 | 85 | 7 | 5 | 2 | – | 7.8 | 10 | 2500 |
| | Plymouth ... | 1014.4 | -46 | SW | 5 | ddo | 53 | 95 | 6 | 6 | – | – | 10 | 10 | 800 |
| | Falmouth ... | 1013.0 | -40 | SWS | 6 | id | 53 | 95 | 6 | 6 | 2 | – | 4.6 | 10 | 2500 |
| | Scilly (St. Mary's) | 1011.4 | -60 | SSW | 6 | o/r | 53 | 95 | 4 | 5 | – | – | 10 | 10 | 2500 |
| | Guernsey ... | 1018.0 | -40 | SSW | 5 | o | 53 | 85 | 7 | 5 | – | – | 10 | 10 | 2500 |
| 6 | Pembroke ... | 1011.2 | -34 | SW | 4 | id | 51 | 95 | 4 | 6 | – | – | 10 | 10 | – |
| 7 | Holyhead ... | 1008.9 | -32 | SSW | 5 | ir | 51 | 95 | 6 | 6 | 2 | – | 9 | 10 | 1500 |
| | Chester (Sealand) | 1010.3 | -42 | S | 3 | c | 49 | 75 | 7 | 5 | 2 | – | 4.6 | 10 | 4000 |
| 8 | L'pool (Bidston) | 1010.1 | -30 | S | 4 | c | 49 | 65 | 7 | 5 | 2 | – | 4.6 | 10 | 1500 |
| 9 | Harrogate ... | 1009.7 | -14 | S'E | 3 | c | 45 | 75 | 5 | 5 | 2 | 7 | 2.3 | 10 | 2500 |
| 10 | Spurn Head ... | 1012.5 | -4 | SW | 4 | c | 44 | 85 | 6 | 4 | 7 | – | 4.6 | 9+ | 2500 |
| | Catterick ... | 1008.4 | -26 | S | 4 | c | 46 | 65 | 7 | 5 | 1 | – | 4.6 | 9+ | 2500 |
| | Tynemouth ... | 1005.9 | -24 | SW | 4 | c | 48 | 65 | 6 | 2 | – | 2 | 4.6 | 7.8 | 2500 |
| 11 | Inchkeith ... | 1002.1 | -34 | SSW | 8 | rr | 45 | 85 | 7 | 6 | 2 | – | 4.6 | 10 | 2500 |
| | Leuchars ... | 1002.3 | -42 | SW | 6 | rr | 44 | 85 | 6 | 6 | 2 | – | 9 | 10 | 1500 |
| 12 | Renfrew ... | 1001.2 | -50 | SW | 6 | c/r | 47 | 85 | 7 | 6 | 2 | – | 9 | 10 | 1500 |
| | Eskdalemuir ... | 1003.7 | -56 | S'W | 6 | rr | 43 | 95 | 6 | 6 | 2 | – | 9 | 10 | 800 |
| 13A | Tiree ... | 994.7 | -38 | SW | 8 | c | 49 | 65 | 7 | 5 | 7 | 8 | 2.3 | 9+ | 2500 |
| 13B | Stornoway ... | 991.4 | -58 | SSE | 4 | rr | 42 | 95 | 7 | 6 | 2 | – | 7.8 | 10 | 1500 |
| 15 | Dalwhinnie ... | 998.4 | -40 | SSW | 3 | c | 38 | 95 | 8 | 4 | 2 | – | 7.8 | 9 | 800 |
| | Aberdeen ... | 999.3 | -46 | SSW | 4 | iro | 44 | 75 | 7 | 6 | 7 | – | 7.8 | 9+ | 1500 |
| | Wick ... | 997.1 | -34 | SW | 3 | co | 42 | 95 | 8 | 9 | – | – | 9 | 9 | 1500 |
| 16 | Lerwick ... | 996.5 | +4 | W | 1 | pr | 39 | 65 | 7 | 8 | – | – | 7.8 | 7.8 | 1500 |
| 17 | Blacksod Point | 1002.4 | -10 | SW'W | 6 | o | 48 | 65 | 8 | 5 | – | – | 10 | 10 | <150 |
| 18 | Malin Head ... | 998.7 | +4 | SW | 6 | c | 48 | 85 | 7 | 6 | 1 | – | 7.8 | 9+ | 1500 |
| | Aldergrove ... | 1004.2 | -18 | S'W | 5 | iro | 46 | 75 | 9 | 5 | 2 | – | 7.8 | 10 | 1500 |
| | Donaghadee ... | 1003.8 | -24 | SW | 4 | co | 47 | 75 | 7 | 5 | – | – | 9 | 9 | 1500 |
| 19 | Birr Castle ... | 1005.7 | -20 | WSW | 1 | rr | 45 | 95 | 6 | 6 | – | – | 10 | 10 | 1500 |
| 20 | Valentia Obsy. | 1006.3 | -26 | W | 1 | iro | 46 | 85 | 8 | 5 | 2 | – | 7.8 | 9+ | 1500 |
| | Roches Point... | 1007.7 | -34 | SW | 3 | iro | 51 | 95 | 7 | 6 | – | – | 10 | 10 | 1500 |

### OBSERVATIONS at 18h. G.M.T. 5th December

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1007.5 | -62 | S'W | 4 | dodo | 50 | 95 | 6 | 6 | 2 | – | 7.8 | 10 | 1500 | 1 | • |
| Croydon | 1008.6 | -54 | S'W | 5 | dd | 49 | 95 | 5 | 6 | – | – | 10 | 10 | 800 | 1 | • |
| S. Farnborough | 1006.8 | -62 | S | 5 | dr | 50 | 95 | 5 | 6 | 2 | – | 9 | 10 | 1500 | 1 | • |
| Winchester | 1006.9 | -56 | SSW | 5 | dd | 53 | 95 | 7 | 6 | – | – | 10 | 10 | 450 | 1 | • |
| Boscombe Down | 1006.5 | -52 | SSW | 5 | dd | 53 | 95 | 6 | 6 | – | – | 10 | 10 | 450 | 1 | • |
| Calshot, S'thmtn | 1009.2 | -38 | SSW | 6 | roro | 53 | 95 | 7 | 6 | – | – | 10 | 10 | 800 | 1 | 4 |
| Dungeness | * | * | S | 7 | ro | * | * | 5 | 6 | – | • | 10 | 10 | 1500 | • | 3 |
| Lympne | 1012.0 | -38 | SSW | 6 | DD | 48 | 95 | 5 | 6 | 2 | – | 7.8 | 10 | 1500 | 1 | • |
| Shoeburyness | 1009.1 | -48 | S | 5 | o/r | 49 | 95 | 7 | 6 | – | – | 10 | 10 | 1500 | 1 | • |
| Felixstowe | 1010.0 | -44 | S'W | 4 | roro | 48 | 95 | 6 | 6 | – | – | 10 | 10 | 1500 | 1 | 3 |
| Gorleston | 1009.4 | -30 | SW'S | 4 | roro | 46 | 95 | 6 | 6 | – | – | 10 | 10 | 1500 | 1 | 3 |
| Cranwell | 1005.2 | -60 | SSE | 4 | rr | 43 | 95 | 6 | 6 | – | – | 10 | 10 | 800 | 1 | • |
| Birmingham | 1003.0 | -64 | SSE | 3 | roro | 46 | 95 | 5 | 6 | – | – | 10 | 10 | 800 | 1 | • |
| Upper Heyford | 1004.5 | -66 | SSW | 3 | roro | 49 | 95 | 6 | 6 | – | – | 10 | 10 | 800 | 1 | • |
| Leafield | 1003.6 | -54 | S'W | 5 | o/r | 49 | 95 | 8 | 5 | – | – | 10 | 10 | 800 | 1 | • |
| Ross-on-Wye | 1002.0 | -66 | SW'W | 5 | roro | 53 | 95 | 5 | 6 | – | – | 10 | 10 | 1500 | 1 | • |
| Portland Bill | 1006.9 | -44 | SW'S | 7 | ido | 55 | 95 | 6 | 5 | – | – | 10 | 10 | 1500 | 1 | 6 |
| Plymouth | 1006.7 | -42 | SSW | 8 | dd | 54 | 95 | 6 | 6 | – | – | 10 | 10 | 450 | 1 | 4 |
| Falmouth | 1005.9 | -14 | SW | 8 | rr | 55 | 95 | 6 | 6 | 2 | – | 7.8 | 10 | 2500 | 1 | 5 |
| Scilly (St. Mary's) | 1006.5 | -20 | SW'W | 6 | c/r | 53 | 95 | 6 | 8 | – | – | 9+ | 9+ | 4000 | 1 | 5 |
| Guernsey | 1012.6 | -30 | SW | 5 | o | 55 | 95 | 7 | 5 | – | – | 10 | 10 | 1500 | 1 | 4 |
| Pembroke | 1000.1 | -60 | SSW | 6 | rororo | 53 | 95 | 7 | 6 | – | – | 10 | 10 | 800 | 1 | 4 |
| Holyhead | 1001.8 | -40 | N | 3 | rororo | 46 | 95 | 6 | 6 | – | – | 10 | 10 | 1500 | 1 | 2 |
| Chester (Sealand) | 1001.2 | -56 | SE | 3 | iro | 45 | 95 | 6 | 6 | – | – | 10 | 10 | 1500 | 1 | • |
| L'pool (Bidston) | 1000.5 | -46 | SSE | 4 | roro | 45 | 95 | 7 | 5 | – | – | 10 | 10 | 1500 | 1 | • |
| Harrogate | 1002.6 | -40 | S'E | 3 | pro | 44 | 85 | 5 | 6 | – | – | 2.3 | 2.3 | 2500 | 1 | • |
| Spurn Head | 1005.1 | -10 | SW | 5 | ror | 44 | 95 | 7 | 6 | 2 | – | 4.6 | 10 | 1500 | 1 | 4 |
| Catterick | 1001.1 | -42 | S | 3 | iro | 45 | 85 | 6 | 6 | – | – | 10 | 10 | 1500 | 1 | • |
| Tynemouth | 1001.1 | -20 | WNW | 3 | roro | 43 | 95 | 6 | 6 | – | – | 10 | 10 | 1500 | 1 | 2 |
| Inchkeith | 997.4 | -38 | SW | 7 | o | 46 | 85 | 8 | 5 | – | – | 10 | 10 | 2500 | 0 | 4 |
| Leuchars | 996.0 | -22 | WSW | 6 | c | 46 | 75 | 7 | 5 | 2 | – | 4.6 | 10 | 1500 | 1 | • |
| Renfrew | 997.4 | -10 | WSW | 3 | c | 46 | 75 | 7 | 8 | 2 | – | 7.8 | 10 | 1500 | 1 | • |
| Eskdalemuir | 999.1 | -28 | SSW | 6 | c | 40 | 95 | 6 | 5 | 2 | – | 2.3 | 10 | 1500 | 2 | • |
| Tiree | 992.5 | -32 | W'S | 7 | bc | 46 | 75 | 7 | 5 | 7 | – | 2.3 | 4.6 | 2500 | 0 | 4 |
| Stornoway | 988.8 | -10 | – | 0 | c | 37 | 95 | 7 | 8 | 7 | – | 4.6 | 7.8 | 1500 | 1 | 2 |
| Dalwhinnie | 994.4 | -8 | SW | 4 | RR | 40 | 85 | 7 | 4 | 2 | – | 4.6 | 10 | 1500 | 1 | • |
| Aberdeen | 992.1 | -20 | SSW | 3 | b | 47 | 55 | 8 | 1 | 3 | – | 0 | 1 | – | 1 | 1 |
| Wick | 989.4 | -20 | SW | 3 | c | 39 | 95 | 8 | 8 | 1 | – | 7.8 | 7.8 | 1500 | 1 | 2 |
| Lerwick | 991.1 | -30 | W | 1 | br | 40 | 85 | 6 | 5 | – | – | 9+ | 9+ | 1500 | 1 | • |
| Blacksod Point | 997.2 | -26 | – | 0 | c | 44 | 75 | 7 | – | 2 | – | 0 | 10 | – | 0 | 3 |
| Malin Head | 995.6 | -20 | W | 6 | bc | 45 | 75 | 7 | 8 | 7 | – | 4.6 | 4.6 | 1500 | 0 | 4 |
| Aldergrove | 999.2 | -22 | S'E | 2 | c | 42 | 85 | 8 | 5 | 2 | – | 4.6 | 10 | 2500 | 1 | • |
| Donaghadee | 998.6 | -20 | NSW | 2 | c | 43 | 85 | 7 | 5 | – | – | 7.8 | 7.8 | 1500 | 1 | 1 |
| Birr Castle | 999.3 | -40 | S | 1 | rr | 42 | 95 | 7 | 6 | – | – | 10 | 10 | 1500 | 1 | • |
| Valentia Obsy. | 1001.0 | -26 | SW'S | 3 | rr | 44 | 95 | 8 | 6 | 2 | – | 4.6 | 10 | 1500 | 1 | 4 |
| Roches Point | 1001.2 | -28 | NE | 4 | rr | 45 | 95 | 7 | 6 | – | – | 10 | 10 | 1500 | 1 | 4 |

### PAST 24 HOURS. WEATHER.

| Stations | 7h.–13h. 5th (37) | 13h.–18h. 5th (38) | 18h. 5th to 1h. 6th (39) | 1h.–7h. 6th (40) |
|---|---|---|---|---|
| London (Kew) | czo | cr cmd | cqrb | b |
| Croydon | cmo | crddm | orrro | cdbc |
| S. Farnborough | cmo | cirodd | crrro | cbc |
| Winchester | cmo | omdd | oddcbc | bc |
| Boscombe Down | cmro | coddm | orrmo | omoc |
| Calshot, S'thmtn | cmo | ododrr | ororo, b | bw |
| Dungeness | o | p | • | b |
| Lympne | cmo | croddm | ODD r | cdbc |
| Shoeburyness | cmo | cmoiro | orbc | bcb |
| Felixstowe | bcczo | czocrroRo | orororr | bc |
| Gorleston | bcc | corr | orriqq | cbcq |
| Cranwell | bccmo | roorr | orrdo | cprob |
| Birmingham | bcc | crr | orobc | bcb |
| Upper Heyford | cmo | orrmo | orrq-b | bbc |
| Leafield | c | oRR | cpq bc | bc |
| Ross-on-Wye | c | roroR | roqdcqpbq | bqb |
| Portland Bill | cido | cidorridz | oiRc, bc | bc |
| Plymouth | codo | omodd | oddmo | c |
| Falmouth | cidmoq | cidmoq | oircbcq | bc |
| Scilly (St. Mary's) | ciro | oirc | pbcbq | bbc |
| Guernsey | co | oirdo | odirc | cbc |
| Pembroke | qr | roro | bcq | bcl |
| Holyhead | cmo | Rom roro | dodoRird | prbcql |
| Chester (Sealand) | bcc | ciro | kqrbc | bcprq |
| L'pool (Bidston) | cq | coro | iRPr | qcPRKqbc |
| Harrogate | cbcc | cpo | bcrrr | bccp |
| Spurn Head | bcc | crr | crrbcq | bcproq |
| Catterick | bcqc | cmoiro | rocR | cPR |
| Tynemouth | bcc | coiro | ororo | oir |
| Inchkeith | crr | crrR | oc | cbc |
| Leuchars | bcqrr | crq | cqc | cbcw |
| Renfrew | cporrq | cqc | c | cprc |
| Eskdalemuir | bccrr | ortRc | ccrs | crsssc |
| Tiree | iRQpriR | cbc | bcpR | bcq |
| Stornoway | cprrr | rrcpr | cpr | cpr, dc |
| Dalwhinnie | srs | rr | b | bc |
| Aberdeen | bccro | crob | b | bcpro |
| Wick | bcc | crrc | crrbc | bcpr |
| Lerwick | orr, cpr | cpr | cirbc | bcpro |
| Blacksod Point | o | o | prc | prcq |
| Malin Head | circ | cbc | bcpcoir | oirc |
| Aldergrove | ciro | cirv | cbc crorr | r-ss |
| Donaghadee | ciroc | ciroc | cbc | bcrrbc |
| Birr Castle | bcorr | orr | orr | cpicx |
| Valentia Obsy. | crrro | crorocrr | rphbc | bcirbc |
| Roches Point | bcoiro | ororr | orrc | crlbc |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, " less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s$_o$, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s$_o$/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus, R, heavy rain. r$_o$, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ϖ, lunar halo.
With present weather is combined, whenever possible, the general character of the weather.
A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; –, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

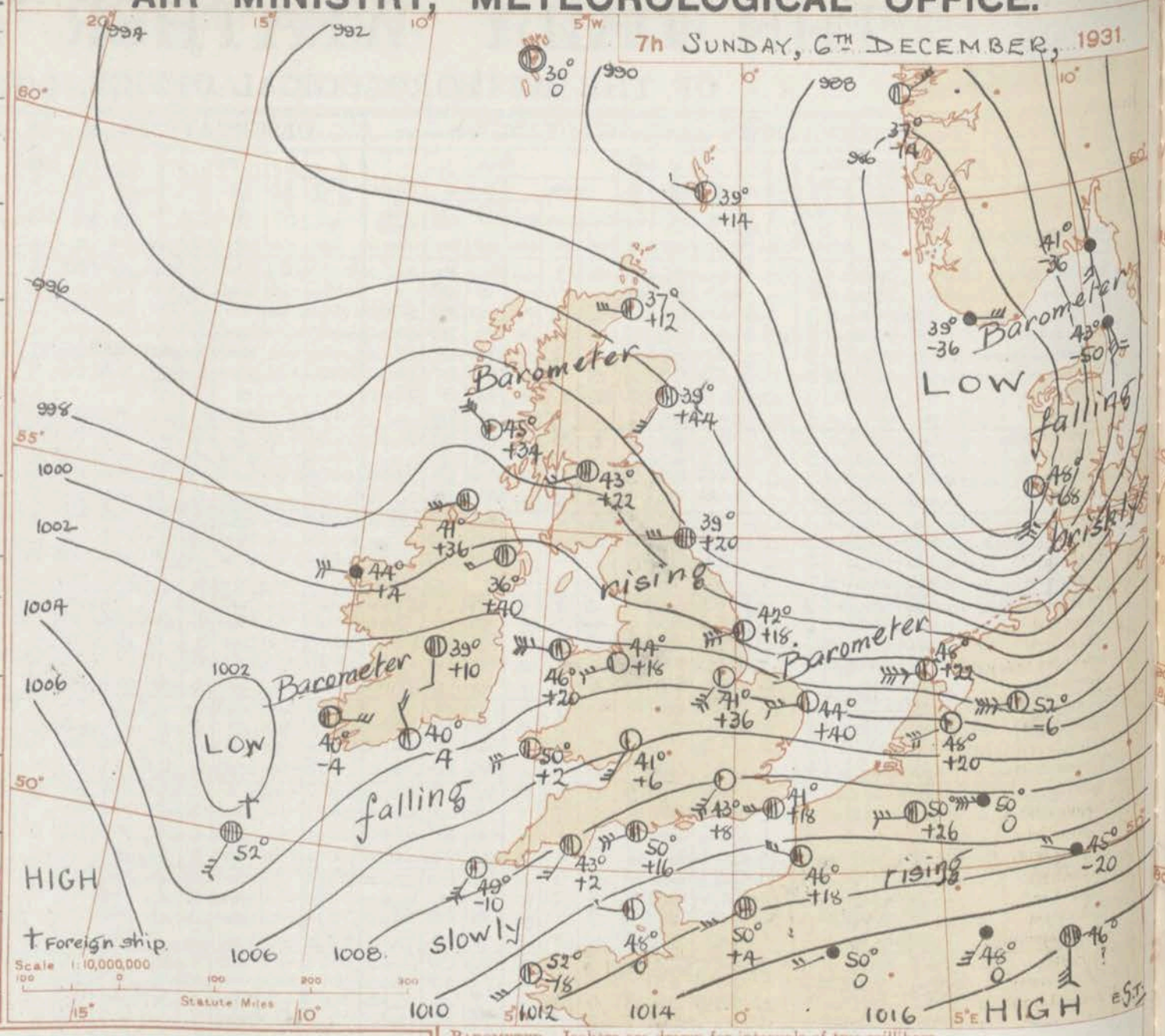
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for 5th December 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 4th to 9h. 5th | Temperature. Max. 9h.—17h. 5th | Rainfall. Night. 17h. 4th to 9h. 5th | Rainfall. Day. 9h.—17h. 5th | Sunshine. Sunrise to Sunset. 4th |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | o | od | 43 | 51 | – | 0.3 | 0.0 |
| | Bournemouth | o | od | 45 | 54 | – | 0.3 | 0.0 |
| | Ventnor ... | o | odrdu | 48 | 53 | – | 0.5 | 0.1 |
| | Southsea ... | e | cor | 47 | 53 | – | 1 | 0.0 |
| | Bognor Regis | cbec | cr | 46 | 52 | – | 0.3 | 0.1 |
| | Littlehampton | bcc | cr | 40 | 52 | – | 1 | 0.0 |
| | Worthing ... | c | cod | 42 | 52 | – | 0.3 | 0.1 |
| | Brighton ... | mc | cod | 45 | 52 | – | Trace | 0.0 |
| | Eastbourne† | o | or | 46 | 53 | – | 0.2 | 0.1 |
| | Hastings† ... | oco | oco | 43 | 52 | – | – | 0.1 |
| | Folkestone ... | om | omod | 42 | 52 | – | Trace | 0.0 |
| | Dover... ... | co | od | 45 | 52 | – | Trace | 0.0 |
| | Deal ... ... | bcc | co | 44 | 52 | – | – | 0.0 |
| | Ramsgate ... | c | o | 44 | 51 | – | – | 0.0 |
| | Margate ... | c | cr | 44 | 51 | – | 0.2 | 0.0 |
| 2 | Southend ... | co | or | 43 | 49 | – | 0.3 | 0.0 |
| | Maldon ... | o | or | 40 | 49 | – | 0.3 | 0.0 |
| | Clacton-on-Sea | bcc | bcco | 42 | 48 | – | – | 0.0 |
| | Dovercourt ... | bcc | ocr | 42 | 51 | – | 0.2 | 0.0 |
| | Lowestoft ... | c | cip | 42 | 47 | – | Trace | 0.3 |
| | Skegness ... | om | od | 40 | 46 | – | Trace | 0.0 |
| | Mablethorpe | o | orm | 39 | 46 | – | 0.5 | 0.0 |
| | Cleethorpes ... | oc | cor | 38 | 45 | – | Trace | 0.0 |
| 3 | Leamington S. | o | or | 43 | 48 | – | 8 | 0.0 |
| 4 | Cheltenham† | coc | corr | 42 | 49 | – | 6 | 0.0 |
| 5 | Bath ... ... | c | crcr | 46 | 54 | – | 3 | 0.0 |
| | Weymouth ... | c | cddir | 49 | 55 | – | 1 | 0.0 |
| | Jersey ... | cd | c | 51 | 54 | – | 0.3 | 0.2 |
| | Torquay ... | bcm | cpom | 47 | 56 | – | 3 | 0.0 |
| | Penzance ... | or | or | 50 | 56 | – | 1 | 0.0 |
| | St. Ives ... | o | r | 49 | 56 | – | 3 | 0.0 |
| | Bude ... ... | pgc | pgc | 47 | 56 | 1 | 2 | 0.0 |
| | Ilfracombe ... | pgc | rsr | 50 | 57 | – | 9 | 0.0 |
| 6 | Aberystwyth | om | corr | 48 | 51 | – | 5 | 0.0 |
| 7 | Llandudno ... | c | or | 47 | 53 | – | 1 | 0.0 |
| | Colwyn Bay... | o | or | 45 | 50 | – | 1 | 0.0 |
| | Rhyl ... ... | c | cd | 45 | 50 | – | 0.1 | 0.0 |
| 8 | Wallasey ... | o | cr | 43 | 51 | 3 | 2 | 0.0 |
| | Southport‖ ... | co | ocr | 46 | 49 | – | 1 | 0.0 |
| | Blackpool ... | co | or | 47 | 49 | – | 1 | 0.0 |
| | Morecambe ... | c | rdror | 45 | 48 | 2 | 4 | 0.0 |
| 9 | Ilkley... ... | bcc | cdc | 42 | 47 | 5 | Trace | 0.0 |
| 10 | Berwick-on-T. | bcc | PRo | 40 | 48 | 0.4 | 1 | 2.5 |
| 11 | Dunbar ... | bc | bcr | 42 | 49 | – | 2 | 1.2 |
| 12 | Douglas ... | co | ro | 43 | 50 | – | 1 | 0.0 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

## AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm, –
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
Clear sky. Sky less than 1/10 clouded. Sky 1/10 to 1/8 clouded. Sky 1/10 to 1/10 clouded. Overcast sky.
Rain falling. Snow. Hail. Fog. Mist. Thunder. Thunderstorm.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 6th Dec., 1931.

| Districts. | Forecasts |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands<br>4. W. Midlands | Wind southwest, moderate, backing and freshening; fair at first; rain spreading from southwest by tonight; then improving; changeable temperature. |
| 5. S.W. England<br>6. South Wales | Wind south, strong, possibly gale on coast, veering later; becoming cloudy with some rain; then improving, with some showers; changeable temperature. |
| 7. North Wales<br>8. N.W. England<br>9. N. Midlands<br>10. N.E. England | Wind west, moderate, becoming variable; variable sky with local showers of rain or sleet; perhaps rain later; rather cold; local night ground frost. |
| 11. S.E. Scotland<br>12. S.W. Scotland & Isle of Man<br>13. A. W. Scotld. B. N.W. Scotland.<br>14. Mid-Scotland<br>15. N.E. Scotland<br>16. Orkneys and Shetlands. | Wind westerly, moderate to fresh locally, veering towards northwest; variable sky; bright periods; showers locally of rain or sleet, with snow on high ground; colder; ground frost in places at night |
| 17. N.W. Ireland<br>18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland | Wind variable, light, freshening from northwest later; mainly cloudy; perhaps local rain; moderate temperature; local night ground frost. |

### GENERAL INFERENCE.

A ridge of relatively high pressure is crossing the British Isles, but a further disturbance just off Southwest Ireland is expected to move eastwards. After a brief interval of fair weather, further rain will spread across the southern half of the country. In the North there will be considerable bright periods with showers locally of rain or sleet, and snow on high ground.

### FURTHER OUTLOOK.

Uncertain.

### Time of issue of Gale Warnings.

South Cone at 1430 on 1st in district 20;
at 1435 on 5th in districts 1 and 5;
at 1935 on 5th in district 2.

Forecasts issued at 1200 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press Kingsway, W.C.2. Pa 507/230 Wt. 75 D.6001 Gp 908. 28210. 12/31

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 6th December 1931.

No. 25,981

### OBSERVATIONS at 1 hr. G.M.T. 6th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1003.8 | -2 | WSW | 6 | c | 53 | 86 | 8 | 5 | - | - | 7.8 | 7.8 | 1500 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot, (S'thmtn) | 8 | 1006.8 | -6 | WSW | 5 | b | 53 | 75 | 7 | 5 | - | - | Tr. | Tr. | 2500 |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1004.7 | -20 | SW | 6 | o/r | 52 | 96 | 7 | 5 | - | - | 10 | 10 | 800 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 998.0 | -18 | WSW | 4 | c | 53 | 95 | 7 | 6 | - | - | 7.8 | 7.8 | 1500 |
| | Cranwell | 240 | 996.1 | 0 | SW'W | 5 | pr | 50 | 85 | 6 | 6 | - | - | 7.8 | 7.8 | 1500 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1005.6 | +8 | W'S | 7 | bc | 52 | 75 | 8 | 4 | 4 | - | 4.6 | 4.6 | 2500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1008.6 | +6 | W'S | 5 | q | 48 | 85 | 7 | 3 | 2 | - | 2.3 | 4.6 | 4000 |
| | Scilly (St. Mary's) | 163 | 1009.0 | +18 | W'N | 6 | b | 50 | 76 | 7 | 4 | - | - | 1 | 1 | 4000 |
| | Guernsey | 175 | 1010.1 | 0 | WNW | 6 | c | 53 | 85 | 7 | 8 | 4 | - | 4.6 | 7.8 | 2500 |
| 6 | Pembroke | 142 | 1004.0 | +26 | SW | 8 | q | 49 | 75 | 7 | 3 | 6 | - | 2.3 | 4.6 | 1500 |
| 7 | Holyhead | 26 | 999.5 | +16 | W'S | 8 | pr | 45 | 86 | 7 | 3 | - | - | 4.6 | 4.6 | 1500 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 992.4 | -14 | SWW | 6 | q | 50 | 95 | 7 | 2 | 7 | - | 2.3 | 4.6 | 4000 |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1002.8 | -20 | W | 1 | fo/fo | 38 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 |
| 11 | Inchkeith | 190 | 1001.2 | -28 | WSW | 5 | c | 43 | 86 | 8 | 5 | 2 | - | 4.6 | 9+ | 4000 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 991.8 | +14 | NW | 1 | c/pr | 39 | 95 | 7 | 6 | 2 | - | 7.8 | 10 | 1500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 989.4 | +6 | W | 2 | bc | 36 | 95 | 8 | 8 | - | - | 2.3 | 2.3 | 2500 |
| 16 | Lerwick | 54 | 988.3 | +4 | NE | 2 | bc | 41 | 95 | 7 | 5 | - | - | 4.6 | 4.6 | 1500 |
| 17 | Blacksod Point | 18 | 997.0 | -4 | W | 5 | PR | 42 | 88 | 6 | 6 | - | - | 10 | 10 | 1500 |
| 18 | Malin Head | 52 | 995.0 | +6 | NE | 2 | ir | 40 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1002.5 | +26 | SW | 6 | bc | 43 | 95 | 7 | 6 | - | - | 4.6 | 4.6 | 1500 |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 6th December

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1007.9 | +14 | SW | 3 | b | 43 | 75 | 7 | - | 1 | 1 | 0 | 1 | - | 1 | * |
| Croydon | 1008.0 | +8 | SW'W | 4 | b | 43 | 75 | 7 | - | - | 5 | 0 | 1 | - | 1 | * |
| S. Farnborough | 1008.2 | +8 | SW | 2 | bc | 40 | 85 | 7 | - | 7 | 1 | 0 | 2.3 | - | 1 | * |
| Winchester | 1008.8 | -10 | SW | 3 | c | 40 | 85 | 7 | - | - | 6 | 0 | 7.8 | - | 1 | * |
| Boscombe Down | 1008.8 | +10 | SSW | 3 | c | 40 | 85 | 7 | - | 3 | 2 | 0 | 7.8 | - | 1 | * |
| Calshot, (S'thmtn) | 1009.2 | +34 | SW'W | 3 | b | 44 | 75 | 7 | - | 5 | 4 | 0 | 1 | - | 0 | 2 |
| Dungeness | * | * | SW | 4 | bc | * | * | 7 | 5 | 1 | * | 2.3 | 2.3 | 1500 | * | 3 |
| Lympne | 1009.2 | +18 | W | 3 | bc | 41 | 85 | 8 | - | 4 | - | 0 | 2.3 | - | 1 | * |
| Shoeburyness | 1007.3 | +20 | W'S | 4 | bc | 44 | 75 | 8 | - | - | 5 | 0 | 2.3 | - | 1 | * |
| Felixstowe | 1006.5 | +24 | W'S | 5 | bc | 44 | 75 | 8 | - | - | 1 | 0 | 2.3 | - | 1 | 4 |
| Gorleston | 1003.7 | +40 | W | 4 | bc | 44 | 75 | 7 | - | 4 | - | 0 | 2.3 | - | 1 | 4 |
| Cranwell | 1002.7 | +36 | SW'W | 5 | b | 41 | 75 | 7 | - | - | 1 | 0 | Tr | - | 1 | * |
| Birmingham | 1005.2 | +20 | WSW | 4 | b | 39 | 75 | 8 | - | - | 1 | 0 | Tr | - | 1 | * |
| Upper Heyford | 1006.6 | +12 | SW | 3 | bc | 38 | 85 | 8 | - | - | 6 | 0 | 4.6 | - | 1 | * |
| Leafield | 1006.3 | +10 | SW'W | 4 | bc | 37 | 85 | 9 | - | - | 6 | 0 | 2.3 | - | 1 | * |
| Ross-on-Wye | 1006.4 | +6 | SW'S | 3 | b | 41 | 75 | 8 | - | - | 1 | 0 | 1 | - | 1 | * |
| Portland Bill | 1009.0 | +16 | WSW | 5 | c | 50 | 65 | 8 | 5 | 4 | 8 | 7.8 | 9 | 2500 | 1 | 4 |
| Plymouth | 1008.8 | +2 | SW | 2 | c | 43 | 85 | 7 | 1 | - | 2 | 2.3 | 7.8 | 2500 | 1 | 2 |
| Falmouth | 1008.6 | -6 | SW'W | 2 | bc | 47 | 75 | 8 | 5 | 1 | - | 2.3 | 4.6 | 4000 | 0 | 2 |
| Scilly (St. Mary's) | 1007.6 | -10 | SW | 5 | bc | 49 | 85 | 8 | 2 | 1 | - | 2.3 | 4.6 | 4000 | 1 | 4 |
| Guernsey | 1011.0 | 0 | W'N | 1 | bc | 48 | 75 | 8 | 8 | 1 | - | 4.6 | 4.6 | 2500 | 1 | 3 |
| Pembroke | 1006.2 | +2 | WSW | 5 | bc | 50 | 75 | 8 | 3 | 7 | - | 1 | 4.6 | 2500 | 0 | 3 |
| Holyhead | 1002.8 | +20 | W'N | 7 | q | 46 | 75 | 8 | 5 | 1 | - | Tr | 9 | 2500 | 1 | 4 |
| Chester (Sealand) | 1002.6 | +18 | W'S | 4 | b | 44 | 55 | 8 | 5 | - | - | Tr | Tr | 4000 | 1 | * |
| L'pool (Bidston) | 1001.3 | +24 | W | 6 | q | 44 | 65 | 8 | 3 | - | - | 4.6 | 4.6 | 1500 | 1 | * |
| Harrogate | 999.1 | +14 | W | 5 | pr | 40 | 85 | 7 | 6 | - | - | 9 | 9 | 2500 | 1 | * |
| Spurn Head | 998.9 | +18 | W | 6 | q | 42 | 86 | 7 | - | 7 | - | 0 | 4.6 | - | 1 | 4 |
| Catterick | 998.3 | +22 | WNW | 5 | c | 40 | 85 | 7 | 8 | 9 | - | 4.6 | 7.8 | 2500 | 1 | * |
| Tynemouth | 995.7 | +20 | W | 3 | o/r | 39 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | 2 |
| Inchkeith | 995.3 | +20 | SW | 5 | c | 43 | 85 | 8 | 5 | 7 | - | 2.3 | 7.8 | 2500 | 0 | 3 |
| Leuchars | 995.1 | +34 | WNW | 3 | c | 40 | 85 | 8 | 5 | 7 | 8 | 2.3 | 7.8 | 2500 | 1 | * |
| Renfrew | 997.6 | +22 | WSW | 2 | c | 48 | 85 | 7 | 8 | 1 | - | 4.6 | 9+ | 2500 | 1 | * |
| Eskdalemuir | 998.3 | +30 | W | 4 | c/s | 35 | 95 | 6 | 5 | 2 | - | 7.8 | 10 | 800 | 6 | * |
| Tiree | 997.8 | +34 | NW | 4 | bc | 45 | 65 | 7 | 8 | 7 | - | 2.3 | 7.8 | 2500 | 0 | 3 |
| Stornoway | 995.2 | +20 | NW | 1 | bc | 44 | 95 | 7 | 3 | - | - | 2.3 | 2.3 | 4000 | 1 | 1 |
| Dalwhinnie | 996.4 | +28 | NNW | 2 | bc | 36 | 75 | 7 | 4 | 4 | - | 2.3 | 4.6 | 800 | 0 | * |
| Aberdeen | 994.2 | +44 | SW | 3 | c | 39 | 85 | 7 | 5 | 7 | - | 2.3 | 7.8 | 4000 | 1 | 1 |
| Wick | 992.2 | +12 | W | 3 | bc | 37 | 95 | 8 | 8 | 1 | - | 4.6 | 4.6 | 2500 | 1 | 2 |
| Lerwick | 989.9 | +14 | WNW | 1 | bc | 39 | 85 | 7 | 8 | 4 | - | 2.3 | 4.6 | 1500 | 1 | * |
| Blacksod Point | 998.4 | +4 | W | 5 | PR | 44 | 95 | 7 | 3 | - | - | 9 | 9 | 450 | 1 | 4 |
| Malin Head | 1002.7 | +36 | WSW | 3 | c/p | 41 | 95 | 7 | 9 | - | - | 9+ | 9+ | 800 | 1 | 3 |
| Aldergrove | 1001.2 | +40 | WSW | 2 | c/s | 36 | 95 | 8 | 8 | - | - | 9+ | 9+ | 2500 | 1 | * |
| Donaghadee | 999.6 | +26 | W | 3 | bc | 38 | 95 | 7 | 5 | 3 | - | 4.6 | 4.6 | 2500 | 1 | 2 |
| Birr Castle | 1002.3 | +10 | S | 1 | c | 39 | 95 | 7 | 8 | - | - | 10 | 10 | 1500 | 1 | * |
| Valentia Obsy.† | 1003.1 | -4 | E | 3 | bc/r | 40 | 95 | 8 | 5 | - | 2 | 2.3 | 4.6 | 4000 | 1 | * |
| Roches Point | 1003.9 | -4 | NW | 2 | bc | 40 | 95 | 8 | 3 | - | - | 4.6 | 4.6 | 1500 | 1 | 3 |

### PAST 24 HOURS.

| Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F (32) | Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 5th Hrs. (36) |
|---|---|---|---|---|---|---|
| London (Kew) | 51 | 43 | 38 | 0.5 | 2 | 0.0 |
| Croydon | 51 | 43 | 39 | 1 | 3 | 0.0 |
| S. Farnborough | 50 | 39 | 31 | 0.4 | 3 | 0.0 |
| Winchester | 53 | 39 | 35 | 2 | 4 | * |
| Boscombe Down | 53 | 38 | 35 | 1 | 3 | 0.0 |
| Calshot, (S'thmtn) | 53 | 44 | 38 | 0.6 | 3 | * |
| Dungeness | 52 | 41 | * | Tr. | 1 | 0.0 |
| Lympne | 49 | 41 | 36 | Tr. | 3 | 0.0 |
| Shoeburyness | 50 | 44 | 40 | Tr. | 1 | 0.1 |
| Felixstowe | 54 | (44) | 36 | 1 | 2 | 0.5 |
| Gorleston | 46 | 43 | 40 | 0.3 | 7 | 0.0 |
| Cranwell | 47 | 41 | 39 | 5 | 3 | 0.0 |
| Birmingham | 46 | 39 | 35 | 5 | 1 | * |
| Upper Heyford | 49 | 38 | 33 | 9 | 1 | 0.0 |
| Leafield | 49 | 37 | 30 | 11 | 1 | 0.0 |
| Ross-on-Wye | 53 | 41 | 35 | 10 | 2 | * |
| Portland Bill | 56 | 49 | * | 1 | 1 | 0.0 |
| Plymouth | 55 | 42 | 35 | 1 | 1 | 0.0 |
| Falmouth | 55 | 45 | * | 1 | 2 | 0.0 |
| Scilly (St. Mary's) | 55 | 47 | * | 2 | 0.5 | 0.0 |
| Guernsey | 55 | 48 | 40 | 1 | 3 | 0.0 |
| Pembroke | 54 | 48 | * | 7 | 0.1 | 0.0 |
| Holyhead | 52 | 44 | 41 | 4 | 5 | 0.0 |
| Chester (Sealand) | 49 | 43 | 38 | 0.2 | 1 | 0.0 |
| L'pool (Bidston) | 49 | 37 | 36 | 0.4 | 6 | 0.0 |
| Harrogate | 45 | 36 | 33 | Tr. | 6 | 0.0 |
| Spurn Head | 45 | 42 | * | 0.2 | 12 | 0.0 |
| Catterick | 47 | 36 | 31 | Tr. | 6 | * |
| Tynemouth | 49 | 38 | 35 | 0.4 | 9 | * |
| Inchkeith | 48 | 42 | 39 | 0.4 | - | 0.2 |
| Leuchars | 47 | 38 | 34 | 2 | - | 0.1 |
| Renfrew | 48 | 40 | 36 | 4 | 0.5 | 0.0 |
| Eskdalemuir | 45 | 31 | 32 | 7 | 0.10 | 0.0 |
| Tiree | 51 | 41 | 37 | 5 | 3 | 0.0 |
| Stornoway | 43 | 35 | * | 5 | 1 | 0.0 |
| Dalwhinnie | 41 | 34 | 31 | 7 | 0.4 | 0.3 |
| Aberdeen | 47 | 37 | 29 | 0.1 | Tr | * |
| Wick | 43 | 35 | * | 0.4 | 2 | * |
| Lerwick | 42 | 38 | * | 4 | 2 | 0.0 |
| Blacksod Point | 51 | 39 | * | Tr. | 11 | 0.0 |
| Malin Head | 48 | 37 | * | 1 | 6 | 0.0 |
| Aldergrove | 47 | 33 | 31 | 0.4 | 7 | * |
| Donaghadee | 49 | 34 | * | 2 | 5 | 0.0 |
| Birr Castle | 50 | 37 | 30 | 6 | 4 | 0.0 |
| Valentia Obsy.† | 53 | 40 | 38 | 13 | 4 | * |
| Roches Point | 56 | 40 | * | 7 | 10 | |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon (24 hrs. ended 9h.) | Weather Night (24 hrs. ended 9h.) | Temperature Day Max. °F. | Temperature Night Min. °F. | Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset, hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. (To-day) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KEW | 18 | c 3u | crcm0d0 | cqrb | 51 | 43 | 38 | 0.5 | 2 | 0.0 | * | * | 6 |
| CROYDON | 217 | cm0 | cr0ddm0 | orr0cdbc | 51 | 43 | 39 | 1 | 3 | 0.0 | * | * | 6 |
| GREENWICH (Royal Observatory) | 149 | c | ocd | crrqrbc | 56 | 42 | 33 | 0.5 | 3 | 0.0 | 79 | 69 | 5 |
| CITY (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| WESTMINSTER (St. James' Park) | 27 | * | * | * | 55 | 43 | 37 | ...3... | - | 0.0 | 73 | 69 | * |
| REGENTS PK. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | * | * | * | * |
| CAMDEN SQUARE | 110 | c | cor | * | 55 | 43 | 37 | 4 | - | * | * | 69 | * |
| KENSINGTON | 80 | co or | or odr | * | 51 | 43 | 34 | 0.6 | 2 | 0.0 | At 18h. 93 | 71 | * |
| HAMPSTEAD OBSERVATORY | 450 | cb | cor | * | 54 | 38 | 32 | 4 | 0.3 | 0.1 | * | 76 | * |

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 6th

| SOUTH KENSINGTON. Max. | Time. | Min. | Time. |
|---|---|---|---|
| 0.8 | 10h. 5* | Nil | 1-6h. 6* |

| KEW OBSERVATORY. Max. | Time. | Min. | Time. |
|---|---|---|---|
| 0.5 | 8hr 5m | 0.3 | 0-3hr 6m |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 5th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 6th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARIS | 1018.5 | S | 4 | 3 | 52 | 1012.6 | WSW | 2 | fo/fo | 50 | 55 | 50 | - | 2 |
| BRUSSELS | 1016.6 | S | 4 | c | 46 | 1009.1 | W | 4 | c | 50 | 52 | 46 | - | 0.4 |
| BERLIN | 1015.3 | WSW | 5 | b | 43 | 1006.1 | S | 5 | c | 43 | 50 | 37 | 1 | 2 |
| ZÜRICH | 1025.8 | SE | 1 | 3 | 43 | | | | | | 54 | | 0.3 | |
| ROME | 1020.7 | NNE | 1 | 0 | 55 | 1024.9 | SSW | 2 | c | 50 | 57 | 48 | - | - |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13–18 | 9 | 47–54 |
| 1 | 1–3 | 5 | 19–24 | 10 | 55–63 |
| 2 | 4–7 | 6 | 25–31 | 11 | 64–75 |
| 3 | 8–12 | 7 | 32–38 | 12 | 75 |
| | | 8 | 39–46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 27.—Code for surface visibility.**

| | Objects not visible at |
|---|---|
| 0 Dense fog | 55 yards. |
| 1 Thick fog | 220 " |
| 2 Fog | 550 " |
| 3 Moderate fog | 1,100 " |
| 4 Mist or haze | 1¼ miles. |
| 5 Poor visibility | 2½ " |
| 6 Moderate " | 6½ " |
| 7 Good " | 12½ " |
| 8 Very good " | 31 " |
| 9 Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | |
|---|---|
| 0 Calm. | 5 Very rough. |
| 1 Smooth. | 6 High. |
| 2 Slight. | 7 Very high. |
| 3 Moderate. | 8 Precipitous. |
| 4 Rough. | 9 Confused. |

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

Page 1.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

MONDAY 7th December 1931.

No. 25582.

OBSERVATIONS at 13h. G.M.T. 6th December

| District | Stations (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew)... | 1009.1 | -8 | SSW | 2 | bc | 47 | 75 | 5 | - | - | 8 | 0 | 4.6 | - |
| | Croydon ... | 1009.5 | 0 | SW'S | 2 | bc | 50 | 65 | 6 | - | - | 8 | 0 | 4.6 | - |
| | S. Farnborough | 1009.1 | -8 | SSW | 2 | bc | 52 | 65 | 7 | - | - | 2 | 0 | 4.6 | - |
| | Winchester ... | 1002.8 | -14 | E'S | 1 | c | 48 | 75 | 4 | - | 1 | 6 | 0 | 7.8 | - |
| | Boscombe Down | 1008.3 | -14 | SSE | 3 | bc | 49 | 75 | 8 | 1 | - | 2 | 1 | 4.6 | 4000 |
| | Calshot, S'thmtn | 1009.9 | -2 | SE | 3 | bc | 51 | 75 | 7 | - | 4 | 6 | 0 | 4.6 | - |
| | Dungeness ... | * | * | WSW | 2 | c | * | * | 7 | 5 | 1 | * | 7.8 | 9 | 2500 |
| | Lympne ... | 1010.8 | -4 | WSW | 1 | c | 47 | 75 | 8 | - | - | 8 | 0 | 9+ | - |
| 2 | Shoeburyness | 1009.2 | -2 | WSW | 3 | c | 47 | 75 | 6 | - | 1 | 6 | 0 | 7.8 | - |
| | Felixstowe ... | 1009.0 | +6 | W'S | 3 (53) | c | 46 | 75 | 6 | - | - | 2 | 0 | 7.8 | - |
| | Gorleston ... | 1006.7 | +8 | WNW | 3 | bc | 47 | 75 | 7 | - | 4 | - | 0 | 9 2.3 | - |
| | Cranwell ... | 1006.7 | +14 | W | 3 | b | 46 | 65 | 7 | 5 | - | - | 1 | 1 | 4000 |
| 3 | Birmingham ... | 1007.8 | +2 | W | 2 | c | 46 | 55 | 6 | 5 | - | 1 | 7.8 | 9 | 2500 |
| | Upper Heyford | 1008.6 | -6 | SSW | 2 | b | 47 | 65 | 7 | - | - | 8 | 0 | 1 | - |
| | Leafield ... | 1007.9 | +6 | S'W | 2 | bc | 47 | 65 | 8 | - | 4 | 8 | 0 | 2.3 | - |
| 4 | Ross-on-Wye ... | 1007.5 | 0 | N | 2 | c | 46 | 75 | 7 | 6 | 2 | - | Tr. | 9+ | 2500 |
| 5 | Portland Bill... | 1007.6 | -14 | SSW | 4 | c | 52 | 65 | 8 | 4 | 7 | 1 | 4.6 | 7.8 | 2500 |
| | Plymouth ... | 1006.6 | -18 | S | 6 | ir₀ | 51 | 75 | 8 | 6 | 2 | - | 7.8 | 10 | 1500 |
| | Falmouth ... | 1005.3 | -12 | SSW | 6 | ir | 50 | 85 | 8 | 8 | 2 | - | 7.8 | 10 | 4000 |
| | Scilly (St. Mary's) | 1004.6 | -12 | SW'W | 4 | br | 48 | 95 | 7 | 8 | 2 | - | 7.8 | 9 | 2500 |
| | Guernsey ... | 1008.7 | -22 | SWW | 3 | c | 52 | 85 | 8 | 8 | 3 | - | 4.6 | 7.8 | 2500 |
| 6 | Pembroke ... | 1005.4 | -4 | SW | 2 | c | 47 | 95 | 8 | 3 | 6 | - | 4.6 | 7.8 | 1500 |
| 7 | Holyhead ... | 1007.1 | +6 | WNW | 3 | c⊕ | 46 | 75 | 8 | 4 | 3 | 6 | Tr. | 9+ | 2500 |
| | Chester (Sealand) | 1007.3 | +14 | NW'N | 2 | c | 47 | 65 | 8 | 1 | 3 | 6 | 2.3 | 7.8 | 4000 |
| 8 | L'pool (Bidston) | 1006.6 | +14 | W | 3 | c | 46 | 75 | 8 | 5 | - | 4 | 4.6 | 7.8 | 2500 |
| 9 | Harrogate ... | 1004.8 | +14 | SSW | 3 | bc | 43 | 75 | 8 | 3 | - | 3 | 1 | 4.6 | 2500 |
| 10 | Spurn Head ... | 1004.6 | +8 | WNW | 4 | bc | 46 | 75 | 7 | - | 1 | 1 | 0 | 4.6 | - |
| | Catterick ... | 1005.1 | +34 | W | 3 | c | 47 | 65 | 8 | 8 | 7 | 2 | 4.6 | 7.8 | 2500 |
| | Tynemouth ... | 1003.7 | +26 | WNW | 3 | bc | 45 | 75 | 7 | 2 | - | 1 | 2.3 | 2.3 | 2500 |
| 11 | Inchkeith ... | 1004.1 | +24 | W | 4 | c | 42 | 85 | 7 | 5 | 8 | 9 | 4.6 | 7.8 | 2500 |
| | Leuchars ... | 1003.5 | +34 | WNW | 3 | c | 42 | 65 | 8 | 5 | 7 | 2 | 2.3 | 7.8 | 4000 |
| 12 | Renfrew ... | 1005.7 | +34 | W'S | 3 | c | 41 | 85 | 8 | 5 | 7 | - | 2.3 | 9 | 2500 |
| | Eskdalemuir ... | 1005.1 | +36 | NW | 4 | c | 42 | 65 | 9 | 1 | - | 3 | Tr. | 7.8 | 1500 |
| 13A | Tiree ... | 1005.4 | +26 | WNW | 4 | cjb | 46 | 65 | 8 | 8 | - | - | 7.8 | 7.8 | 1500 |
| 13B | Stornoway ... | 1000.7 | +26 | W | 2 | pcr | 43 | 95 | 8 | 9 | 7 | - | 7.8 | 9+ | 1500 |
| 15 | Dalwhinnie ... | 1005.0 | +24 | NNW | 2 | bc | 38 | 65 | 8 | 4 | - | 2 | 1 | 2.3 | 800 |
| | Aberdeen ... | 1001.4 | +34 | W'N | 2 | bc | 42 | 65 | 7 | 2 | 4 | 3 | 1 | 2.3 | 2500 |
| | Wick ... | 997.3 | +20 | W | 3 | br | 38 | 95 | 8 | 8 | 1 | - | 4.6 | 7.8 | 2500 |
| 16 | Lerwick ... | 994.7 | +12 | - | 0 | cbr₀ | 40 | 95 | 8 | 9 | - | 4 | 7.8 | 9 | 1500 |
| 17 | Blacksod Point | 1008.3 | +60 | NW | 5 | PR | 45 | 75 | 8 | 3 | - | - | 4.6 | 4.6 | 800 |
| 18 | Malin Head ... | 1007.4 | +28 | W | 3 | cjp | 41 | 95 | 8 | 9 | 7 | - | 4.6 | 9 | 1500 |
| | Aldergrove ... | 1007.3 | +26 | NW | 2 | c | 41 | 85 | 8 | 8 | 3 | - | 4.6 | 7.8 | 1500 |
| | Donaghadee ... | 1006.7 | +24 | WNW | 2 | c | 42 | 85 | 8 | 8 | 2 | - | 4.6 | 7.8 | 2500 |
| 19 | Birr Castle ... | 1006.5 | +14 | SW | 1 | c | 44 | 75 | 8 | 5 | - | 8 | 2.3 | 7.8 | 2500 |
| 20 | Valentia Obsy. | 1008.8 | +24 | NW | 4 | bc | 46 | 75 | 8 | 8 | - | 9 | 4.6 | 4.6 | 2500 |
| | Roches Point... | 1007.4 | +18 | N | 3 | bc | 42 | 95 | 8 | 5 | - | - | 4.6 | 4.6 | 1500 |

OBSERVATIONS at 18h. G.M.T. 6th December — PAST 24 HOURS.

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (36) | Weather 7h.–13h. 6th (37) | Weather 13h.–18h. 6th (38) | Weather 18h. 6th to 1h. 7th (39) | Weather 1h.–7h. 7th (40) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1009.4 | +10 | E | 2 | cf | 44 | 75 | 3 | 5 | 8 | - | 4.6 | 7.8 | 800 | 1 | * | bcz₀bcz₀ | bcz₀bcfw | bcfwocm | bz₀x |
| Croydon | 1009.1 | +6 | ESE | 3 | c | 43 | 75 | 6 | 5 | 2 | - | 4.6 | 10 | 2500 | 1 | * | bccz₀⊕ | bccz₀ | crcm₀ | c,bm₀ |
| S. Farnborough | 1009.0 | +10 | E | 1 | bc | 42 | 75 | 4 | - | 2 | 8 | 0 | 4.6 | - | 1 | * | bccbc | bccz₀z₀bcz | cr₀c | cbcbx |
| Winchester | 1008.7 | +10 | E | 1 | c | 42 | 85 | 7 | - | 2 | - | 0 | 10 | - | 1 | * | cm₀z | c | ccrbc | bcbm₀ |
| Boscombe Down | 1008.6 | +10 | SE | 2 | ir | 43 | 85 | 6 | 5 | 2 | - | 9 | 10 | 2500 | 1 | * | cbc | bccm₀ | crrbc | bcbxm₀ |
| Calshot, S'thmtn | 1008.8 | -2 | ENE | 3 | ir | 47 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | 2 | cbc | cm₀o | cpr₀cm₀ | cxbm₀w |
| Dungeness | * | * | E | 2 | c | * | * | 7 | 5 | 7 | * | 4.6 | 7.8 | 2500 | * | 0 | bc | bc | * | bc |
| Lympne | 1010.4 | +4 | E'N | 2 | c | 38 | 85 | 6 | - | - | 6 | 0 | 7.8 | - | 1 | * | cbcc | cbcm₀ | bbcwm₀ | bcbwm |
| Shoeburyness | 1009.6 | +8 | SW | 1 | bc | 41 | 95 | 8 | - | - | 8 | 0 | 2.3 | - | 0 | * | bbcm₀ | bcm₀b | bbc | bcbxm₀ |
| Felixstowe | 1010.0 | +12 | - | 0 | bc | 41 | 95 | 5 | - | - | 1 | 0 | 2.3 | - | 0 | 0 | bcz₀ | cz₀bz₀ | bm₀w | bmx |
| Gorleston | 1009.5 | +12 | W'S | 2 | b | 41 | 95 | 5 (6) | - | - | - | 0 | 0 | - | 0 | 2 | bcq | bcb | bm₀ | bm₀x |
| Cranwell | 1009.8 | +22 | WNW | 1 | c | 38 | 95 | 4 | 5 | 1 | .5 | 2.3 | 9+ | 4000 | 1 | * | bbcb | bccm₀ | cmbm | bm₀x |
| Birmingham | 1009.8 | +16 | N | 2 | o | 44 | 75 | 4 | 5 | - | - | 10 | 10 | 800 | 1 | * | bbc | com | ob | bx |
| Upper Heyford | 1009.7 | +16 | NE | 2 | c | 42 | 85 | 6 | - | 2 | 8 | 0 | 10 | - | 1 | * | bcb | b,cm₀ | orr₀b | bbxm₀ |
| Leafield | 1009.4 | +8 | NNE | 1 | m | 41 | 95 | 7 | 5 | - | - | 10 | 10 | 4000 | 1 | * | bc | cir₀ | or₀r₀b | bx |
| Ross-on-Wye | 1002.5 | +12 | NE | 2 | ir₀ | 43 | 85 | 5 | 6 | - | - | 10 | 10 | 1500 | 1 | * | bcbbcc | cdd | r₀r₀cb | bwbx |
| Portland Bill | 1006.2 | -4 | ESE | 3 | br | 51 | 85 | 8 | 4 | - | - | 10 | 10 | 2500 | 1 | 3 | c | crrpr | RRc | c |
| Plymouth | 1006.4 | +10 | N | 3 | ir₀ | 45 | 85 | 5 | 6 | 2 | - | 7.8 | 10 | 1500 | 1 | 2 | cmr | corrm₀ | cr₀m₀ | c b |
| Falmouth | 1006.2 | +16 | N'E | 6 | r₀r₀ | 44 | 95 | 7 | 8 | 2 | - | 4.6 | 9 | 4000 | 1 | 3 | bccrq | cirq | cr₀bcq | b'c |
| Scilly (St. Mary's) | 1007.4 | +32 | NNE | 6 | ir₀ | 45 | 95 | 6 | 6 | - | - | 10 | 10 | 2500 | 1 | 4 | bccb | corr | cbcqp | bcpbc |
| Guernsey | 1006.1 | 0 | SSW | 3 | o | 50 | 85 | 8 | 5 | - | - | 10 | 10 | 2500 | 1 | 3 | bccb₀ | co | bcoir | orcb |
| Pembroke | 1008.7 | +20 | NNE | 3 | q | 44 | 95 | 7 | 3 | 6 | - | 4.6 | 7.8 | 1500 | 1 | 2 | irc | cir | cpr | bc |
| Holyhead | 1010.9 | +32 | N | 4 | bc | 45 | 75 | 8 | 2 | - | - | 2.3 | 2.3 | 2500 | 1 | 2 | c | cbc | pr₀bc | b |
| Chester (Sealand) | 1010.4 | +28 | NW | 1 | bc | 39 | 85 | 6 | 5 | - | 8 | Tr. | 4.6 | 4000 | 1 | * | bcc | cbcm₀ | bcm₀ | bcm₀x |
| L'pool (Bidston) | 1010.1 | +24 | NE'N | 2 | bc | 43 | 85 | 7 | 5 | - | - | 4.6 | 4.6 | 2500 | 0 | * | q₀bcv | bcbbc | bcb | bbc |
| Harrogate | 1009.8 | +26 | WSW | 2 | b | 37 | 85 | 7 | - | - | 1 | 0 | Tr. | - | 1 | * | bcbc | bcb | b | bx |
| Spurn Head | 1008.3 | +10 | NW | 3 | bc | 43 | 85 | 6 | 5 | 1 | - | 2.3 | 4.6 | 2500 | 0 | 3 | bcq | bc | bc | bc |
| Catterick | 1009.4 | +30 | - | 0 | b | 37 | 85 | 8 | - | - | - | 0 | 0 | - | 1 | * | bcb | bcbcv | bbc | bc |
| Tynemouth | 1008.0 | +30 | W | 2 | bc | 38 | 95 | 7 | 5 | - | - | 2.3 | 2.3 | 1500 | 1 | 1 | omc | bc | bcb | b |
| Inchkeith | 1007.5 | +22 | WSW | 4 | bc | 41 | 85 | 7 | 5 | 4 | - | 2.3 | 4.6 | 2500 | 0 | 3 | bcc | cbc | bc | bc |
| Leuchars | 1007.1 | +24 | W | 3 | b | 39 | 75 | 8 | - | - | 8 | 0 | 1 | - | 1 | * | bcwc | bcb | bx | bx |
| Renfrew | 1009.8 | +30 | W | 2 | b | 38 | 85 | 8 | - | - | - | 0 | 0 | - | 1 | * | c | cb | cpr₀b | bbc |
| Eskdalemuir | 1009.0 | +26 | E | 1 | b | 37 | 75 | 8 | - | - | - | 0 | 0 | - | 1 | * | c | cb bx | bx | bxbcx |
| Tiree | 1009.0 | +24 | W | 6 | bc | 45 | 55 | 8 | 8 | - | .3 | 4.6 | 4.6 | 1500 | 0 | 4 | brPR | bc | PRH b | bc |
| Stornoway | 1003.8 | +22 | W | 2 | PH(R) | 39 | 95 | 8 | 9 | - | - | 4.6 | 4.6 | 1500 | 1 | 1 | cphr | CPRH | cPHq | cphrb |
| Dalwhinnie | 1008.4 | +22 | WNW | 2 | bc | 37 | 85 | 7 | 4 | 4 | - | 1 | 2.3 | 800 | 0 | | bc | bc | | r |
| Aberdeen | 1005.0 | +22 | W | 3 | b | 38 | 75 | 8 | 3 | 3 | - | 1 | 1 | 2500 | 1 | 1 | cbc | bcb | b | bbc |
| Wick | 1001.5 | +30 | W | 3 | br | 37 | 95 | 8 | 9 | 7 | - | 4.6 | 7.8 | 1500 | 1 | 2 | bcpr | cpr | prsbc | bc |
| Lerwick | 997.4 | +8 | - | 0 | bc | 36 | 85 | 6 | 5 | - | - | 4.6 | 4.6 | 1500 | 1 | * | bccjpr₀ | cbr₀bcm | bcpr₀m₀ | bc |
| Blacksod Point | 1015.4 | +28 | NW | 4 | bc | 43 | 65 | 8 | 4 | - | - | 4.6 | 4.6 | 1500 | 1 | 4 | prc | phr | c | cq |
| Malin Head | 1011.9 | +34 | NW'W | 3 | bjp | 44 | 75 | 8 | 3 | - | - | 1 | 1 | 2500 | 0 | 2 | cp rs | cp₀hbc | bcjpbc | bcpr |
| Aldergrove | 1012.5 | +40 | - | 0 | b | 34 | 95 | 9 | - | - | - | 0 | 0 | - | 1 | * | cp₀ | bcb | bx | bxo |
| Donaghadee | 1011.5 | +24 | W | 1 | bc | 40 | 65 | 7 | 5 | - | - | 2.3 | 2.3 | 2500 | 0 | 0 | bcpr₀c | cbcb | bbcc | c |
| Birr Castle | 1012.6 | +52 | SW | 1 | b | 38 | 95 | 8 | - | - | - | 0 | 0 | - | 1 | * | cl₀ | cbcb | bx | bx |
| Valentia Obsy. | 1015.8 | +54 | N | 5 | bc | 46 | 65 | 8 | 8 | - | - | 2.3 | 2.3 | 2500 | 1 | 4 | bccbc | ~~bcfcbc~~ bcpr₀bc | bcphrb | bc |
| Roches Point | 1012.4 | +38 | N | 4 | c | 45 | 85 | 8 | 8 | - | - | 7.8 | 7.8 | 1500 | 1 | 3 | bc | bcc | cbc | bcx |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus, R, heavy rain. r₀, slight rain. rr, continuous rain.

<, less than (for cloud height).

⊕, Solar halo. ⊕, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "t r" signifies a small amount of cloud (trace) covering less than 1/10 of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

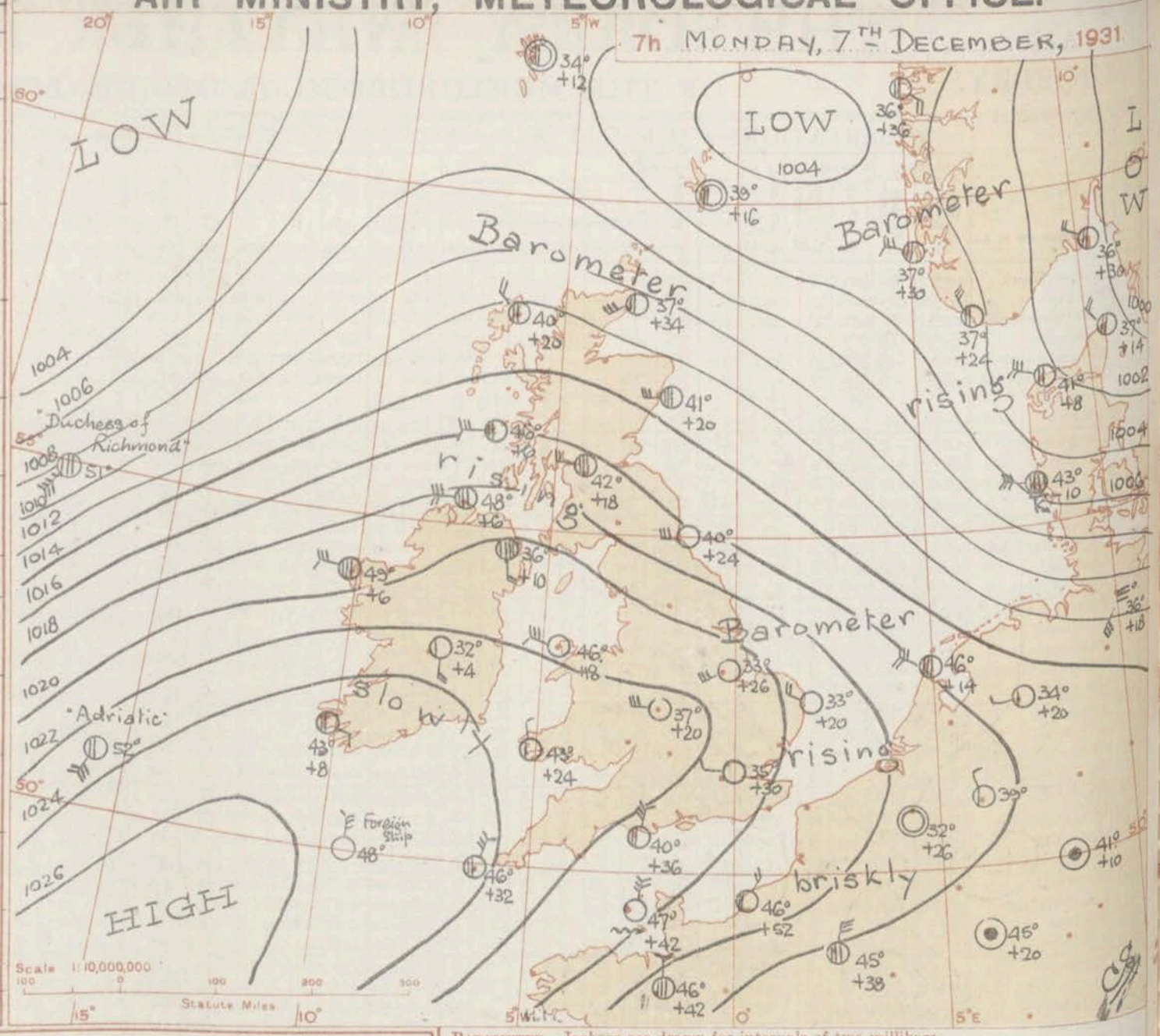
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for 6th December 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 5th to 9h. 6th | Temperature. Max. 9h.–17h. 6th | Rainfall. Night. 17h. 5th to 9h. 6th | Rainfall. Day. 9h.–17h. 6th | Sunshine. Sunrise to Sunset. 6th |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | bco | obcc | 38 | 48 | 7 | – | 1.1 |
| | Bournemouth | coc | co | 43 | 52 | 3 | – | 0.8 |
| | Ventnor ... | obcop | ouorp | 45 | 50 | 3 | 1 | 0.4 |
| | Southsea ... | cbc | cbc | 44 | 50 | 2 | 0.2 | 0.5 |
| | Bognor Regis | bbcco | ckd. | 44 | 50 | 3 | 1 | 0.9 |
| | Littlehampton | bcc | cr | 45 | 50 | 3 | 1 | 0.7 |
| | Worthing ... | co | or | 43 | 50 | 3 | 2 | 0.6 |
| | Brighton ... | coc | cor | 46 | 50 | 5 | 4 | 0.9 |
| | Eastbourne† | bcco | pc | 45 | 55 | 5 | – | 0.6 |
| | Hastings† ... | bcc | cbcc | 43 | 53 | 4 | – | 0.3 |
| | Folkestone ... | cbem. | cbc | 43 | 49 | 1 | – | 0.5 |
| | Dover... ... | bcco | ofbc | 43 | 49 | 2 | – | 0.3 |
| | Deal ... ... | bcc | o | 43 | 49 | 2 | – | 0.7 |
| | Ramsgate ... | bc | bcc | 43 | (50) | 0.3 | – | 1.0 |
| | Margate ... | bc | ci | 43 | 48 | 0.1 | – | 0.7 |
| 2 | Southend ... | bczc | cbczc | 43 | 51 | 1 | – | 1.9 |
| | Maldon ... | c | cbco | 41 | 47 | 3 | – | 1.6 |
| | Clacton-on-Sea | cbc | bccbc | 42 | 47 | 3 | – | 0.8 |
| | Dovercourt ... | rbc | bc | 41 | 47 | 3 | – | 1.4 |
| | Lowestoft ... | bc | b | 41 | 46 | 8 | – | 3.6 |
| | Skegness ... | b | bcm. | 40 | 48 | 7 | – | 4.4 |
| | Mablethorpe | bc | bccm. | 40 | 47 | 6 | – | 4.6 |
| | Cleethorpes ... | bbc | bcc | 39 | 46 | 15 | – | 3.9 |
| 3 | Leamington S. | od | co | 40 | 46 | 1 | – | 0.0 |
| 4 | Cheltenham† | bq,b | bq,bbc | 39 | 50 | 2 | – | 3.1 |
| 5 | Bath ... ... | cbcb | bbccr | 41 | 51 | 7 | 0.5 | 2.9 |
| | Weymouth ... | c | cpc | 44 | 55 | 1 | 0.3 | 0.3 |
| | Jersey ... | cbc | rc | 49 | 52 | 1 | 0.4 | 0.2 |
| | Torquay ... | cRbz | bcorclr | 37 | 53 | 10 | 9 | 1.3 |
| | Penzance ... | crtlc | cir | 43 | 51 | 1 | 4 | 0.0 |
| | St. Ives ... | p | p | 43 | 51 | 1 | 3 | 0.0 |
| | Bude ... ... | pbccr | r | 41 | 49 | 2 | 8 | 1.2 |
| | Ilfracombe ... | bcc | orr | 44 | 49 | 0.2 | 5 | 1.0 |
| 3 | Aberystwyth | rrcph | cprdc | 47 | 48 | 9 | 4 | 0.0 |
| 7 | Llandudno ... | obc | bcc | 44 | 47 | 7 | – | 1.6 |
| | Colwyn Bay... | cbc | bcc | 43 | 48 | 8 | – | 2.6 |
| | Rhyl ... ... | cbc | bcp.r | 43 | 48 | 6 | Trace | 3.1 |
| 8 | Wallasey ... | bcb | bbc | 41 | 48 | 6 | – | 2.8 |
| | Southport‖ ... | cbc | bc | 42 | 47 | 8 | Trace | 1.7 |
| | Blackpool ... | orc | bcc | 41 | 46 | 12 | – | 2.5 |
| | Morecambe ... | rubc | rubc | 39 | 44 | 17 | 1 | 0.8 |
| 9 | Ilkley... ... | bcc | bccb | 36 | 45 | 8 | – | 1.9 |
| 10 | Berwick-on-T. | cbc | cbc | 37 | 42 | – | – | 1.0 |
| 11 | Dunbar ... | bcr | bcx | 39 | 42 | Trace | – | 0.3 |
| 12 | Douglas ... | cbbc | bc | 38 | 45 | 11 | – | 3.1 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.–9h. ‖ Min. Temp. 17h.–9h.

## AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 7th Dec. 1931. |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands | Moderate variable to fresh southwesterly winds; mainly fair but with increasing cloud; becoming mild. |
| 4. W. Midlands<br>5. S.W. England<br>6. South Wales | Moderate northerly winds, backing; cloud increasing; some rain perhaps tomorrow; becoming mild. |
| 7. North Wales<br>8. N.W. England<br>9. N. Midlands | Moderate westerly to fresh southwesterly or southerly winds, strong at times; cloud increasing; some rain later; becoming mild. |
| 10. N.E. England<br>11. S.E. Scotland | Moderate westerly to fresh southwesterly winds; cloud slowly increasing and lowering; some rain probable tomorrow; becoming rather mild. |
| 12. S.W. Scotland & Isle of Man<br>13. A. W. Scotld. B. N.W. Scotland.<br>14. Mid-Scotland | Winds becoming strong southwesterly or southerly, reaching gale force locally; cloudy, some rain; mild. ▼ |
| 15. N.E. Scotland<br>16. Orkneys and Shetlands. | Winds becoming strong southwesterly or southerly, stronger at times; cloud increasing, some rain later; becoming rather mild or mild. |
| 17. N.W. Ireland<br>18. N.E. Ireland | ▼ As 12 - 14. |
| 19. S.E. Ireland | As 7 - 9. |
| 20. S.W. Ireland | As 12 - 14. |

### GENERAL INFERENCE.

A belt of high pressure is over the British Isles while an intense and deepening depression will move east-north-eastward across Iceland. Unsettled conditions with strong winds from a southerly point are likely in the western and northern districts of Ireland and Scotland but elsewhere weather will be fair for a time.

### FURTHER OUTLOOK.

Unsettled in most districts, but remaining fair probably in Southeast England.

Time of issue of Gale Warnings.

▼ South Cone at 0815 on 7th in Districts 13 and 17.

Forecasts issued at 0930 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press Kingsway, W.C.2 Pe 307/2750 Wt. 15. 2600t. Gp. 809 28210. 12/31

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

MONDAY, 7th DECEMBER, 1931.

No. 25,582.

### OBSERVATIONS at 1 hr. G.M.T. 7th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1014.4 | +18 | NNE | 2 | c | 43 | 75 | 5 | 5 | - | - | 10 | 10 | 1500 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot, (S'thmtn) | 8 | 1013.6 | +34 | N'E | 3 | bc | 45 | 86 | 5 | 5 | 7 | - | 2.3 | 4.6 | 2500 |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1013.9 | +22 | ENE | 3 | bc | 36 | 96 | 7 | - | 5 | - | 0 | 2.3 | - |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1014.1 | +20 | NWW | 2 | b | 36 | 96 | 6 | - | - | - | 0 | 0 | - |
| | Cranwell | 240 | 1015.8 | +20 | NWW | 3 | b | 34 | 96 | 5 | - | - | - | 0 | 0 | - |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1013.5 | +40 | NNE | 4 | c | 44 | 85 | 6 | 4 | 4 | - | 4.6 | 7.8 | 2500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1014.7 | +14 | NNE | 6 | q | 45 | 86 | 7 | 3 | - | - | 2.3 | 2.3 | 4000 |
| | Scilly (St. Mary's) | 163 | 1017.4 | +40 | N'E | 7 | bc | 47 | 86 | 8 | 8 | - | - | 4.6 | 4.6 | 4000 |
| | Guernsey | 175 | 1010.6 | +40 | ~~NNE~~ ENE | 3 | ir | 49 | 96 | 6 | 6 | - | - | 10 | 10 | 1500 |
| 6 | Pembroke | 142 | 1018.1 | +32 | N | 1 | pr | 43 | 96 | 7 | 3 | 6 | - | 4.6 | 7.8 | 1500 |
| 7 | Holyhead | 26 | 1018.1 | +26 | NNW | 6 | b | 47 | 75 | 8 | 4 | - | - | 1 | 1 | 2500 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1014.1 | +10 | NNW | 4 | bc | 40 | 85 | 7 | - | 2 | - | 0 | 2.3 | - |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1012.9 | +16 | W | 3 | b | 39 | 85 | 7 | - | - | - | 0 | 0 | - |
| 11 | Inchkeith | 190 | 1011.3 | +18 | WSW | 5 | bc | 42 | 85 | 8 | 5 | - | - | 2.3 | 2.3 | 4000 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1008.5 | +12 | NW | 5 | c/pnbr | 42 | 95 | 7 | 3 | - | - | 7.8 | 7.8 | 2500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1004.7 | +6 | W | 4 | bc | 36 | 96 | 8 | 9 | 1 | - | 4.6 | 4.6 | 1500 |
| 16 | Lerwick | 54 | 1001.0 | +14 | W'S | 1 | bc | 37 | 85 | 7 | 5 | - | - | 2.3 | 2.3 | 1500 |
| 17 | Blacksod Point | 18 | 1018.5 | +24 | NW | 4 | c | 47 | 75 | 7 | - | 4 | - | 0 | 7.8 | - |
| 18 | Malin Head | 52 | 1016.3 | +12 | WN | 5 | bc | 46 | 65 | 8 | 5 | - | - | 4.6 | 4.6 | 4000 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1022.6 | +12 | NW | 3 | bc | 47 | 65 | 8 | 4 | - | - | 2.3 | 2.3 | 800 |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 7th December

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1021.6 | +32 | NW | 2 | b | 37 | 75 | 6 | - | - | - | 0 | 0 | - | 1 | * |
| Croydon | 1021.3 | +30 | WNW | 1 | b | 35 | 85 | 5 | - | - | - | 0 | 0 | - | 1 | * |
| S. Farnborough | 1021.9 | +28 | NW | 1 | b | 30 | 95 | 5 | - | - | - | 0 | 0 | - | 1 | * |
| Winchester | 1022.2 | +30 | N'E | 3 | b | 36 | 85 | 6 | - | - | - | 0 | 0 | - | 1 | * |
| Boscombe Down | 1022.6 | +26 | NE | 2 | b | 32 | 95 | 6 | - | - | - | 0 | 0 | - | 1 | * |
| Calshot, (S'thmtn) | 1021.3 | +38 | NNW | 3 | b | 39 | 85 | 6 | - | - | - | 0 | 0 | - | 0 | 1 |
| Dungeness | * | * | NW | 2 | bc | * | * | 5 | 4 | 1 | * | 2.3 | 4.6 | 2500 | * | 0 |
| Lympne | 1020.9 | +34 | N | 4 | m | 35 | 95 | 4 | - | - | - | 0 | 0 | - | 1 | * |
| Shoeburyness | 1020.6 | +30 | NW | 1 | b | 33 | 95 | 6 | - | - | - | 0 | 0 | - | 1 | * |
| Felixstowe | 1020.0 | +30 | NNW | 3 | b | 35 | 85 | 5 | - | - | - | 0 | 0 | - | 0 | 2 |
| Gorleston | 1017.5 | +20 | NW'W | 2 | b | 33 | 95 | 6 | - | - | - | 0 | 0 | - | 0 | 1 |
| Cranwell | 1020.6 | +26 | W'S | 3 | b | 33 | 95 | 5 | - | - | - | 0 | 0 | - | 4 | * |
| Birmingham | 1022.2 | +20 | WNW | 3 | b | 37 | 85 | 6 | - | - | - | 0 | 0 | - | 10 | * |
| Upper Heyford | 1022.2 | +28 | WNW | 2 | b | 34 | 95 | 6 | - | - | - | 0 | 0 | - | 1 | * |
| Leafield | 1022.1 | +20 | NW | 3 | b | 33 | 95 | 6 | - | - | - | 0 | 0 | - | 0 | * |
| Ross-on-Wye | 1023.0 | +20 | WSW | 1 | b | 33 | 95 | 8 | - | - | - | 0 | 0 | - | 1 | * |
| Portland Bill | 1021.4 | +36 | NNE | 4 | bc | 40 | 85 | 7 | 5 | - | - | 2.3 | 2.3 | 1500 | 1 | 3 |
| Plymouth | 1023.7 | +30 | NE | 4 | b | 41 | 75 | 8 | - | - | - | 0 | 0 | - | 1 | 1 |
| Falmouth | 1023.8 | +26 | N | 3 | bc | 43 | 75 | 7 | 5 | - | - | 2.3 | 2.3 | 4000 | 1 | 1 |
| Scilly (St. Mary's) | 1024.7 | +32 | NNE | 4 | bc | 46 | 85 | 8 | 2 | - | - | 2.3 | 2.3 | 4000 | 1 | 3 |
| Guernsey | 1020.6 | +42 | NNE | 5 | b | 47 | 75 | 8 | - | - | - | 0 | 0 | - | 1 | 4 |
| Pembroke | 1023.3 | +24 | NNW | 1 | b | 43 | 85 | 7 | 1 | - | - | 1 | 1 | 1500 | 0 | 1 |
| Holyhead | 1021.8 | +18 | W'N | 4 | b | 46 | 65 | 9 | 4 | - | - | 1 | 1 | 2500 | 1 | 2 |
| Chester (Sealand) | 1021.3 | +20 | S | 1 | bc | 38 | 75 | 7 | 5 | - | - | 4.6 | 4.6 | 4000 | 1 | * |
| L'pool (Bidston) | 1020.8 | +14 | WNW | 5 | bc | 45 | 95 | 8 | 8 | - | - | 4.6 | 4.6 | 2500 | 0 | * |
| Harrogate | 1019.3 | +30 | W'S | 2 | b | 37 | 85 | 8 | - | 4 | - | 0 | Tr | - | 1 | * |
| Spurn Head | 1017.5 | +10 | WNW | 15 | bc | 40 | 75 | 6 | - | 1 | - | 0 | 2.3 | - | 0 | 4 |
| Catterick | 1018.3 | +20 | SW | 2 | bc | 36 | 85 | 7 | 5 | - | - | 2.3 | 2.3 | 4000 | 0 | * |
| Tynemouth | 1015.9 | +24 | W | 3 | b | 40 | 75 | 7 | - | - | - | 0 | 0 | - | 0 | 2 |
| Inchkeith | 1014.6 | +12 | W | 4 | bc | 42 | 85 | 8 | 5 | 5 | - | 1 | 2.3 | 4000 | 0 | 3 |
| Leuchars | 1014.4 | +26 | - | 0 | b | 35 | 85 | 8 | 4 | 6 | - | Tr | Tr | 4000 | 4 | * |
| Renfrew | 1016.7 | +18 | W | 2 | c | 42 | 75 | 7 | 8 | - | - | 7.8 | 7.8 | 1500 | 1 | * |
| Eskdalemuir | 1017.5 | +24 | W'S | 4 | bc | 38 | 65 | 8 | 5 | 3 | - | Tr | 2.3 | 1500 | 1 | * |
| Tiree | 1015.1 | +6 | W | 4 | bc | 46 | 65 | 8 | 5 | 7 | 8 | 4.6 | 4.6 | 2500 | 0 | 3 |
| Stornoway | 1012.5 | +20 | NW | 2 | bc | 40 | 95 | 8 | 3 | - | - | 4.6 | 4.6 | 2500 | 1 | 1 |
| Dalwhinnie | 1015.4 | +22 | WNW | 3 | bc | 37 | 85 | 7 | 4 | 5 | - | 1 | 2.3 | 1500 | 1 | * |
| Aberdeen | 1012.9 | +20 | W | 3 | c | 41 | 75 | 7 | 5 | - | - | 7.8 | 7.8 | 2500 | 1 | 1 |
| Wick | 1009.6 | +34 | WSW | 3 | bc | 37 | 75 | 8 | 8 | 1 | - | 4.6 | 4.6 | 2500 | 1 | 2 |
| Lerwick | 1004.8 | +16 | - | 0 | bc | 39 | 95 | 7 | 5 | - | - | 2.3 | 2.3 | 1500 | 4 | * |
| Blacksod Point | 1019.4 | +6 | W | 4 | c | 49 | 75 | 7 | - | 7 | - | 0 | 10 | - | 0 | 3 |
| Malin Head | 1017.6 | +6 | W | 5 | c/p | 48 | 85 | 8 | 3 | 5 | - | 4.6 | 7.8 | 1500 | 1 | 3 |
| Aldergrove | 1020.2 | +10 | S | 2 | c | 36 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Donaghadee | 1020.2 | +16 | WSW | 2 | c | 38 | 75 | 7 | 5 | - | - | 7.8 | 7.8 | 1500 | 0 | 1 |
| Birr Castle | 1023.1 | +4 | S | 2 | b | 32 | 95 | 7 | - | 4 | - | 0 | 1 | - | 1 | * |
| Valentia Obsy.† | 1024.9 | +8 | ESE | 1 | bc | 43 | 95 | 8 | 5 | - | 2 | 2.3 | 4.6 | 2500 | 1 | - |
| Roches Point | 1028.1 | +20 | N | 3 | bc | 40 | 85 | 8 | 5 | - | - | 2.3 | 2.3 | 1500 | 0 | 3 |

### PAST 24 HOURS.

| Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F. (32) | Temperature Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 6th Hrs. (36) |
|---|---|---|---|---|---|---|
| London (Kew) | 48 | 36 | 22 | - | Tr | 1.5 |
| Croydon | 50 | 35 | 29 | - | 0.3 | 1.7 |
| S. Farnborough | 52 | 30 | 18 | - | Tr | 1.9 |
| Winchester | 48 | 33 | 28 | - | 0.2 | 1.7 |
| Boscombe Down | 49 | 31 | 29 | 0.1 | 1 | * |
| Calshot, (S'thmtn) | 51 | 38 | 32 | Tr. | 1 | 1.3 |
| Dungeness | 50 | 33 | * | - | Tr | * |
| Lympne | 47 | 35 | 29 | - | - | 0.8 |
| Shoeburyness | 49 | 31 | 28 | - | - | 1.9 |
| Felixstowe | 47 | 32 | 26 | - | - | 0.8 |
| Gorleston | 48 | 33 | 28 | - | - | 3.0 |
| Cranwell | 46 | 32 | 26 | - | Tr | 4.0 |
| Birmingham | 48 | 35 | 27 | - | - | 3.1 |
| Upper Heyford | 48 | 33 | 29 | - | 1 | * |
| Leafield | 47 | 31 | 24 | Tr. | 2 | 3.1 |
| Ross-on-Wye | 46 | 32 | 21 | 0.2 | 2 | 2.1 |
| Portland Bill | 53 | 40 | * | 1 | 10 | * |
| Plymouth | 52 | 40 | 35 | 7 | Tr | 0.2 |
| Falmouth | 56 | 40 | * | 1 | 0.1 | 0.4 |
| Scilly (St. Mary's) | 51 | 44 | * | 9 | 1 | 0.1 |
| Guernsey | 52 | 47 | 40 | 0.1 | 5 | 0.5 |
| Pembroke | 53 | 42 | * | 1 | 0.6 | 0.0 |
| Holyhead | 47 | 44 | 36 | - | 0.2 | 0.2 |
| Chester (Sealand) | 51 | 28 | 22 | - | - | 1.9 |
| L'pool (Bidston) | 46 | 42 | 38 | - | - | 3.0 |
| Harrogate | 44 | 33 | 26 | 0.5 | - | 3.9 |
| Spurn Head | 46 | 39 | * | - | - | 3.9 |
| Catterick | 47 | 33 | 28 | - | - | * |
| Tynemouth | 45 | 36 | 30 | - | - | * |
| Inchkeith | 44 | 39 | 37 | - | - | 0.4 |
| Leuchars | 43 | 34 | 28 | - | - | 1.1 |
| Renfrew | 42 | 35 | 30 | - | 0.3 | 0.1 |
| Eskdalemuir | 43 | 35 | 29 | - | - | 3.7 |
| Tiree | 46 | 42 | 38 | 0.3 | 0.4 | 2.1 |
| Stornoway | 44 | 38 | * | 4 | 4 | 1.0 |
| Dalwhinnie | 39 | 33 | 30 | - | 3 | 3.0 |
| Aberdeen | 43 | 37 | 31 | - | - | 3.4 |
| Wick | 40 | 34 | * | 3 | 2 | * |
| Lerwick | 40 | 35 | * | 1 | Tr 8 | 0.2 |
| Blacksod Point | 49 | 41 | * | 3 | - | * |
| Malin Head | 45 | 43 | * | 0.6 | 1 | 0.4 |
| Aldergrove | 42 | 32 | 24 | Trace | Tr | 3.8 |
| Donaghadee | 44 | 34 | * | 0.2 | - | * |
| Birr Castle | 45 | 29 | 16 | - | - | 2.9 |
| Valentia Obsy.† | 48 | 35 | 30 | 0.2 | 0.4 | 3.0 |
| Roches Point | 46 | 35 | * | - | - | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon | Weather Night | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. (To-day) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KEW | 18 | bc3 bc3 | bc3 bc fw | bc fwr bkx | 48 | 36 | 22 | - | Tr | 1.5 | * | * | 5 |
| CROYDON | 217 | bcc3 ⊕ | bcc3 | ccm cb | 50 | 38 | 29 | - | 0.3 | 1.7 | * | * | 3 |
| GREENWICH (Royal Observatory) | 149 | c ~~obc~~ am | bc am | cf bxf | 48 | 33 | 23 | - | Tr | 1.4 | 75 | 77 | 2 |
| CITY (Bunhill Row) | — | * | | * | * | * | * | * | * | 0.5 | * | * | * |
| WESTMINSTER (St. James' Park) | 27 | * | * | * | 49 | 38 | - | 0.2 | | 1.0 | 93 | 68 | * |
| REGENTS PK. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | ~~1.0~~ | * | * | * |
| CAMDEN SQUARE | 110 | cbc | b | * | 49 | 37 | 29 | - | - | * | * | 80 | * |
| KENSINGTON | 80 | bc | bcc | * | 49 | 35 | 25 | - | - | 1.0 | At 18h. 93 | 78 | * |
| HAMPSTEAD OBSERVATORY | 450 | bc | bcof | * | 48 | 32 | 24 | - | - | 1.4 | * | 82 | * |

### Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 7th

| SOUTH KENSINGTON. Max. | Time. | Min. | Time. |
|---|---|---|---|
| 2.6 | 21h 6th | <0.3 | 2-6h 7th |

| KEW OBSERVATORY. Max. | Time. | Min. | Time. |
|---|---|---|---|
| 2.2 | 22h 6th | 0.2 | 10h 6th |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 6th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 7th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARIS | 1010.1 | - | 0 | m | 46 | 1017.0 | NNE | 3 | c | 45 | 52 | 40 | 2 | 9 |
| BRUSSELS | 1011.4 | SSE | 2 | c | 41 | 1017.8 | NNE | 1 | b | 34 | | 34 | - | - |
| BERLIN | 1008.3 | WSW | 5 | c | 45 | 1012.4 | WSW | 3 | o | 39 | 50 | 37 | - | - |
| ZURICH | | | | | | 1016.6 | S | 1 | 66 | 45 | | 45 | | 12 |
| ROME | 1021.0 | E | 2 | u | 55 | | | | | | 59 | | Tr | |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13–18 | 9 | 47–54 |
| 1 | 1–3 | 5 | 19–24 | 10 | 55–63 |
| 2 | 4–7 | 6 | 25–31 | 11 | 64–75 |
| 3 | 8–12 | 7 | 32–38 | 12 | 75 |
| | | 8 | 39–46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 3, 22.—Code for surface visibility.**

| | | Objects not visible at |
|---|---|---|
| 0 | Dense fog | 55 yards. |
| 1 | Thick fog | 220 " |
| 2 | Fog | 550 " |
| 3 | Moderate fog | 1,100 " |
| 4 | Mist or haze | 1¼ miles. |
| 5 | Poor visibility | 2½ " |
| 6 | Moderate " | 6½ " |
| 7 | Good " | 12½ " |
| 8 | Very good " | 31 " |
| 9 | Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | | | |
|---|---|---|---|
| 0 | Calm. | 5 | Very rough. |
| 1 | Smooth. | 6 | High. |
| 2 | Slight. | 7 | Very high. |
| 3 | Moderate. | 8 | Precipitous. |
| 4 | Rough. | 9 | Confused. |

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 8th December 1931.

No. 25.583

### OBSERVATIONS at 13h. G.M.T. 7th December

| District | Stations. (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0-12 (4) | Weather. (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud. Form. Low. (9) | Form. Med. (10) | Form. High (11) | Amount. Low 0-10 (12) | Amount. Total 0-10 (13) | Height of Base. (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1025.8 | +14 | WNW | 2 | bc | 45 | 55 | 6 | - | - | 4 | 0 | 2.3 | - |
| | Croydon | 1025.3 | +10 | NNW | 3 | bc | 45 | 65 | 4 | - | - | 8 | 0 | 2.3 | - |
| | S. Farnborough | 1025.7 | +4 | WNW | 1 | bc | 45 | 65 | 7 | - | - | 8 | 0 | 2.3 | - |
| | Winchester | 1026.3 | +10 | NW | 3 | bc | 45 | 75 | 7 | - | - | 1 | 0 | 4.6 | - |
| | Boscombe Down | 1026.1 | +2 | NW | 3 | bc | 44 | 75 | 6 | - | - | 1 | 0 | 2.3 | - |
| | Calshot, S'thmtn | 1026.4 | +12 | NW | 4 | bc | 45 | 65 | 6 | - | - | 1 | 0 | 2.3 | - |
| | Dungeness | * | * | NW | 2 | bc | * | * | 5 | - | 1 | - | 0 | 4.6 | - |
| | Lympne | 1024.7 | +14 | NW | 3 | b | 44 | 55 | 6 | - | - | - | 0 | 0 | - |
| 2 | Shoeburyness | 1024.3 | +10 | NNW | 4 | bc | 46 | 65 | 6 | - | - | 6 | 0 | 4.6 | - |
| | Felixstowe | 1023.5 | +14 | NW | 3 | bc | 45 | 65 | 6 | - | - | 6 | 0 | 4.6 | - |
| | Gorleston | 1021.3 | +20 | NW | 3 | bc | 42 | 95 | 6 | - | - | 1 | 0 | 2.3 | - |
| | Cranwell | 1022.9 | +2 | WSW | 4 | b | 40 | 75 | 6 | - | - | 1 | 0 | 1 | - |
| 3 | Birmingham | 1024.8 | +6 | WSW | 3 | bc | 43 | 65 | 6 | - | - | 1 | 0 | 2.3 | - |
| | Upper Heyford | 1025.7 | +10 | W'N | 4 | bc | 46 | 65 | 8 | - | - | 6 | 0 | 4.6 | - |
| | Leafield | 1024.9 | +6 | WNW | 4 | bc | 43 | 65 | 7 | - | - | 1 | 0 | 2.3 | - |
| 4 | Ross-on-Wye | 1025.1 | +4 | W | 2 | bc | 47 | 85 | 9 | 37 | - | 2 | Tr | 4.6 | 4000 |
| 5 | Portland Bill | 1026.5 | +6 | N | 3 | C | 47 | 55 | 8 | 2 | 4 | 9 | 2.3 | 7.8 | 2500 |
| | Plymouth | 1027.5 | +10 | NE | 2 | bc | 47 | 65 | 8 | - | - | 2 | 0 | 4.6 | - |
| | Falmouth | 1028.1 | 0 | - | 0 | bc | 48 | 85 | 8 | 8 | - | - | 4.6 | 4.6 | 4000 |
| | Scilly (St. Mary's) | 1028.4 | +6 | NW | 2 | C | 50 | 65 | 8 | 4 | 4 | 3 | 2.3 | 7.8 | 4000 |
| | Guernsey | 1027.4 | +24 | NE'E | 3 | bc | 48 | 65 | 7 | 7 | 1 | - | 2.3 | 4.6 | 2500 |
| 6 | Pembroke | 1025.8 | -4 | WNW | 2 | C | 48 | 85 | 8 | 4 | 5 | - | 4.6 | 7.8 | 1500 |
| 7 | Holyhead | 1023.2 | -2 | WSW | 5 | C | 48 | 85 | 8 | 4 | - | 2 | 4.6 | 9 | 4000 |
| | Chester (Sealand) | 1023.6 | 0 | W'S | 2 | C | 49 | 55 | 8 | 4 | - | 6 | 2.3 | 7.8 | 4000 |
| 8 | L'pool (Bidston) | 1022.4 | 0 | W | 6 | b | 47 | 65 | 8 | 5 | - | 8 | Tr | 1 | 4000 |
| 9 | Harrogate | 1020.9 | +10 | W'S | 3 | bc | 46 | 85 | 8 | 1 | - | 1 | 1 | 2.3 | 2500 |
| 10 | Spurn Head | 1020.9 | +4 | W | 3 | bc | 43 | 75 | 5 | 5 | - | - | 2.3 | 2.3 | 1500 |
| | Catterick | 1020.1 | 0 | WSW | 3 | C | 47 | 75 | 8 | 7 | - | 4 | 2.3 | 7.8 | 1500 |
| | Tynemouth | 1018.8 | +10 | W | 2 | C | 44 | 85 | 7 | 6 | - | - | 7.8 | 7.8 | 1500 |
| 11 | Inchkeith | 1017.3 | +8 | WSW | 4 | C | 44 | 85 | 7 | 5 | 8 | - | 4.6 | 9+ | 2500 |
| | Leuchars | 1016.5 | +6 | SW | 3 | C | 43 | 75 | 8 | 4 | 6 | 9 | 2.3 | 7.8 | 4000 |
| 12 | Renfrew | 1018.3 | +2 | W'S | 3 | id. | 47 | 85 | 7 | 5 | 3 | - | 9+ | 9+ | 800 |
| | Eskdalemuir | 1019.1 | 0 | WSW | 4 | C | 41 | 95 | 7 | 6 | 2 | - | 9+ | 10 | 800 |
| 13A | Tiree | 1015.5 | -4 | SW | 5 | C | 48 | 85 | 8 | 5 | 7 | - | 7.8 | 9+ | 2500 |
| 13B | Stornoway | 1012.7 | -10 | S | 1 | C | 45 | 85 | 9 | 4 | 6 | - | 7.8 | 9+ | 1500 |
| 15 | Dalwhinnie | 1016.7 | 0 | SSW | 1 | C | 40 | 75 | 8 | 5 | - | 4 | 4.6 | 7.8 | 2500 |
| | Aberdeen | 1015.6 | +8 | WSW | 3 | C | 45 | 65 | 8 | 7 | 3 | 1 | 4.6 | 7.8 | 4000 |
| | Wick | 1012.6 | +10 | W | 3 | C | 42 | 75 | 8 | 8 | 7 | 3 | 4.6 | 7.8 | 2500 |
| 16 | Lerwick | 1009.7 | +20 | - | 0 | bc | 43 | 85 | 8 | 8 | 6 | 9 | 2.3 | 4.6 | 1500 |
| 17 | Blacksod Point | 1008.6 | -20 | W | 6 | C | 50 | 75 | 7 | - | 7 | - | 0 | 9 | - |
| 18 | Malin Head | 1017.9 | -2 | SW | 4 | C | 48 | 95 | 8 | 5 | 8 | - | 9 | 9+ | 1500 |
| | Aldergrove | 1021.5 | +6 | SSW | 3 | C | 43 | 85 | 8 | 5 | - | 9 | 9+ | 9+ | 2500 |
| | Donaghadee | 1020.6 | +6 | SW | 2 | C | 44 | 85 | 7 | 5 | - | - | 7.8 | 7.8 | 1500 |
| 19 | Birr Castle | 1023.2 | -2 | S | 2 | C | 46 | 85 | 8 | 5 | - | 8 | 1 | 7.8 | 2500 |
| 20 | Valentia Obsy. | 1024.4 | -10 | SSW | 5 | C | 50 | 75 | 9 | 5 | - | - | 9 | 9 | 2500 |
| | Roches Point | 1025.6 | -4 | SW | 3 | C | 47 | 95 | 8 | 3 | - | - | 7.8 | 7.8 | 2500 |

### OBSERVATIONS at 18h. G.M.T. 7th December

| District | Stations. | Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind. Direc. (17) | Wind. Force 0-12 (18) | Weather. (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud. Form. Low. (23) | Form. Med. (24) | Form. High. (25) | Amount. Low. 0-10 (26) | Amount. Total 0-10 (27) | Height of Base (feet) (28) | State of Ground. 0-9 (29) | Sea. 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1028.2 | +20 | SSW | 2 | b | 39 | 85 | 5 | - | - | - | 0 | 0 | - | 1 | * |
| | Croydon | 1027.8 | +18 | WSW | 3 | b | 39 | 75 | 6 | - | - | - | 0 | 0 | - | 1 | * |
| | S. Farnborough | 1028.5 | +22 | WSW | 1 | b | 35 | 85 | 7 | - | - | 1 | 0 | 1 | - | 1 | * |
| | Winchester | 1028.8 | +16 | W'N | 2 | b | 36 | 95 | 6 | - | - | 1 | 0 | 1 | - | 1 | * |
| | Boscombe Down | 1028.4 | +18 | WSW | 2 | b | 37 | 85 | 7 | - | 2 | - | 0 | 1 | - | 1 | * |
| | Calshot, S'thmtn | 1028.2 | +18 | WSW | 3 | bc | 41 | 75 | 6 | - | - | 1 | 0 | 2.3 | - | 0 | 1 |
| | Dungeness | * | * | W | 2 | bc | * | * | 5 | - | 1 | * | 0 | 4.6 | - | * | 0 |
| | Lympne | 1028.1 | +20 | WNW | 3 | b | 39 | 75 | 5 | - | - | - | 0 | 0 | - | 1 | * |
| 2 | Shoeburyness | 1027.2 | +24 | WNW | 3 | b | 39 | 85 | 6 | - | 4 | - | 0 | 1 | - | 1 | * |
| | Felixstowe | 1026.5 | +26 | W'N | 3 | bc | 40 | 85 | 5 | - | - | 1 | 0 | 4.6 | - | 0 | 1 |
| | Gorleston | 1025.1 | +12 | W | 2 | bc | 38 | 85 | 6 | - | 4 | - | 0 | 2.3 | - | 0 | 1 |
| | Cranwell | 1024.9 | +12 | SW | 2 | bc | 39 | 85 | 6 | 5 | - | - | 4.6 | 4.6 | 4000 | 1 | * |
| 3 | Birmingham | 1025.8 | +8 | SW | 2 | c | 42 | 75 | 7 | 7 | - | - | 9+ | 9+ | 4000 | 1 | * |
| | Upper Heyford | 1028.2 | +22 | WSW | 2 | bc | 35 | 95 | 7 | 6 | - | 6 | 2.3 | 4.6 | 4000 | 0 | * |
| | Leafield | 1027.1 | +14 | WSW | 2 | bc | 38 | 75 | 7 | 4 | - | 1 | 1 | 2.3 | 4000 | 1 | * |
| 4 | Ross-on-Wye | 1026.6 | +10 | S | 3 | bc | 41 | 75 | 7 | 4 | 4 | 1 | 1 | 2.3 | 4000 | 1 | * |
| 5 | Portland Bill | 1028.8 | +20 | W | 3 | bc | 47 | 65 | 8 | 2 | 6 | - | 4.6 | 4.6 | 2500 | 1 | 3 |
| | Plymouth | 1029.6 | +14 | - | 0 | b | 45 | 75 | 5 | - | - | 1 | 0 | Tr | - | 1 | 1 |
| | Falmouth | 1029.1 | +6 | WSW | 1 | bc | 43 | 85 | 7 | 5 | - | - | 2.3 | 2.3 | 4000 | 0 | 0 |
| | Scilly (St. Mary's) | 1029.6 | +6 | WSW | 4 | b | 45 | 75 | 8 | 7 | - | - | 1 | 1 | 4000 | 1 | 3 |
| | Guernsey | 1029.1 | +18 | - | 0 | bc | 40 | 85 | 7 | 5 | - | - | 2.3 | 2.3 | 4000 | 0 | 2 |
| 6 | Pembroke | 1025.8 | +8 | WSW | 3 | C | 49 | 95 | 7 | 3 | 6 | - | 4.6 | 7.8 | 1500 | 0 | 3 |
| 7 | Holyhead | 1022.8 | -4 | SWW | 4 | bc | 48 | 85 | 7 | 4 | - | - | 2.3 | 2.3 | 4000 | 1 | 2 |
| | Chester (Sealand) | 1024.7 | +6 | SW | 2 | bc | 47 | 75 | 6 | 5 | 4 | - | 2.3 | 2.3 | 4000 | 1 | * |
| 8 | L'pool (Bidston) | 1024.7 | +6 | WSW | 3 | C | 46 | 75 | 8 | 5 | - | - | 7.8 | 7.8 | 2500 | 0 | * |
| 9 | Harrogate | 1022.5 | +6 | SW | 2 | bc | 44 | 85 | 7 | - | 3 | - | 0 | 4.6 | - | 1 | * |
| 10 | Spurn Head | 1022.8 | +4 | W'S | 4 | o | 42 | 85 | 5 | 5 | - | - | 10 | 10 | 1500 | 0 | 3 |
| | Catterick | 1021.1 | +4 | - | 0 | C | 44 | 85 | 7 | 5 | - | - | 7.8 | 7.8 | 2500 | 0 | * |
| | Tynemouth | 1018.8 | +4 | W | 3 | C | 46 | 75 | 6 | 6 | - | - | 7.8 | 7.8 | 1500 | 0 | 1 |
| 11 | Inchkeith | 1016.7 | -2 | WSW | 4 | C | 46 | 85 | 8 | 5 | 2 | - | 4.6 | 9 | 2500 | 0 | 3 |
| | Leuchars | 1016.3 | -2 | SW | 3 | C | 45 | 85 | 6 | 5 | 7 | - | 4.6 | 9+ | 2500 | 1 | * |
| 12 | Renfrew | 1017.7 | -6 | SW | 3 | C | 46 | 75 | 6 | 8 | - | - | 7.8 | 7.8 | 1500 | 1 | * |
| | Eskdalemuir | 1019.7 | +6 | SSW | 4 | C | 41 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 13A | Tiree | 1012.0 | -24 | S'W | 6 | c/p | 49 | 85 | 7 | 5 | 2 | - | 7.8 | 10 | 1500 | 0 | 4 |
| 13B | Stornoway | 1007.7 | -18 | S | 5 | C | 49 | 95 | 7 | 4 | - | - | 10 | 10 | 1500 | 1 | 3 |
| 15 | Dalwhinnie | 1014.7 | -10 | S | 2 | C | 42 | 85 | 6 | 4 | 5 | - | 4.6 | 10 | 1500 | 0 | * |
| | Aberdeen | 1015.1 | -6 | SSW | 2 | C | 42 | 75 | 6 | - | 7 | - | 0 | 9 | - | 1 | 1 |
| | Wick | 1011.8 | -10 | WSW | 3 | C | 42 | 95 | 8 | 4 | 1 | - | 7.8 | 10 | 2500 | 1 | 2 |
| 16 | Lerwick | 1010.0 | -2 | - | 0 | c/r | 40 | 85 | 6 | 6 | 2 | - | 4.6 | 10 | 800 | 1 | * |
| 17 | Blacksod Point | 1013.8 | -24 | SW | 7 | ir | 51 | 95 | 6 | 6 | - | - | 10 | 10 | <150 | 1 | 4 |
| 18 | Malin Head | 1014.0 | -18 | S | 5 | C | 47 | 85 | 7 | 6 | 1 | - | 7.8 | 9+ | 2500 | 0 | 3 |
| | Aldergrove | 1018.7 | -16 | S | 4 | C | 44 | 85 | 8 | 5 | - | 6 | 9 | 9+ | 2500 | 1 | * |
| | Donaghadee | 1019.1 | -4 | SW | 1 | C | 44 | 85 | 7 | 5 | 2 | - | 4.6 | 7.8 | 1500 | 0 | 1 |
| 19 | Birr Castle | 1021.2 | -8 | SSW | 1 | C | 44 | 85 | 7 | 5 | 5 | - | 4.6 | 7.8 | 2500 | 1 | * |
| 20 | Valentia Obsy. | 1021.7 | -14 | S | 6 | rr | 49 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | 3 |
| | Roches Point | 1024.5 | -2 | SW | 4 | C | 50 | 85 | 8 | 3 | - | - | 7.8 | 7.8 | 2500 | 0 | 3 |

### PAST 24 HOURS.

| Stations. | Weather. 7h.–13h. 7th (37) | 13h.–18h. 7th (38) | 18h. 7th to 1h. 8th (39) | 1h.–7h. 8th (40) |
|---|---|---|---|---|
| London (Kew) | bxb3o | bcbmow | bmw | bmrm |
| Croydon | bfbcm | bcem | bm | b,cd |
| S. Farnborough | xbmbc | bcbw | bx | bxor |
| Winchester | bmbc | bcbm | bbc | cord |
| Boscombe Down | bmx | bmb | b | b,crr |
| Calshot, S'thmtn | bmo | bcmo | bcbw | bxcir |
| Dungeness | bc | bc | * | c |
| Lympne | bm3o | bcbmo | bwm | bwxcm |
| Shoeburyness | bmbcm | bcmbm | bbc | bccpd |
| Felixstowe | bbcmo | bcm | bcm | bbcm |
| Gorleston | bbcmo | bcmo | bcm | bccr |
| Cranwell | bxmmo | b3oc | bcb | cb,cm |
| Birmingham | b | bbcc | c | co |
| Upper Heyford | bxbc | bcx | bcx | bcxcr |
| Leafield | bbc | bcbx | bxbc | crc |
| Ross-on-Wye | ifbbc | bcybvbc | bbcc | c |
| Portland Bill | bcc | cbc | bc | c |
| Plymouth | b3obc | bcbm | bmc | corr |
| Falmouth | bc | bc | bc | bcorm |
| Scilly (St. Mary's) | bcc | cbcb | bbc | rr |
| Guernsey | bbcx | bccbc | ocbw | bwc |
| Pembroke | bc | bcc | opr | crbc |
| Holyhead | bbcc | c | bc,rq | ombcb |
| Chester (Sealand) | bcy | bcc3o | bccq | rrbc |
| L'pool (Bidston) | vbcb | bbcc | cbcb | bpb |
| Harrogate | bbc | cbc | bcc | cpb |
| Spurn Head | bcm3 | bccmo | ocbcc | cprc |
| Catterick | bcx | bcc | cbcc | cprb |
| Tynemouth | bbcc | c | cbcoq | o,bc |
| Inchkeith | bcc | c | cir | cbc |
| Leuchars | bxbcc | cdmoc | cmdobc | bcb |
| Renfrew | bccprc | cdcmo | crrc | cm |
| Eskdalemuir | bcxcidbc | c | crr | cbc |
| Tiree | cprq | c | ODr | bopr |
| Stornoway | c | c | orr | bcc |
| Dalwhinnie | bc | c | | r |
| Aberdeen | bcc | bcrc | ccq | cbcb |
| Wick | bcc | c | cprc | cprbc |
| Lerwick | b | bcoirm | corrm | orrbbc |
| Blacksod Point | cq | irq | prcq | prcq |
| Malin Head | bccprc | c | cidbc | bbcprl |
| Aldergrove | odc | c | cwc | cbc |
| Donaghadee | c | cbcc | irbc | cir |
| Birr Castle | bc | c | cir | cir |
| Valentia Obsy. | bcprc | cirbc | rroc | cbc |
| Roches Point | bcpoc | c | corr | orcbc |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s$_o$, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s$_o$/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus. R, heavy rain. r$_o$, slight rain. rr, continuous rain.

<, less than (for cloud height).

⊕, Solar halo. ◐, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; −, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

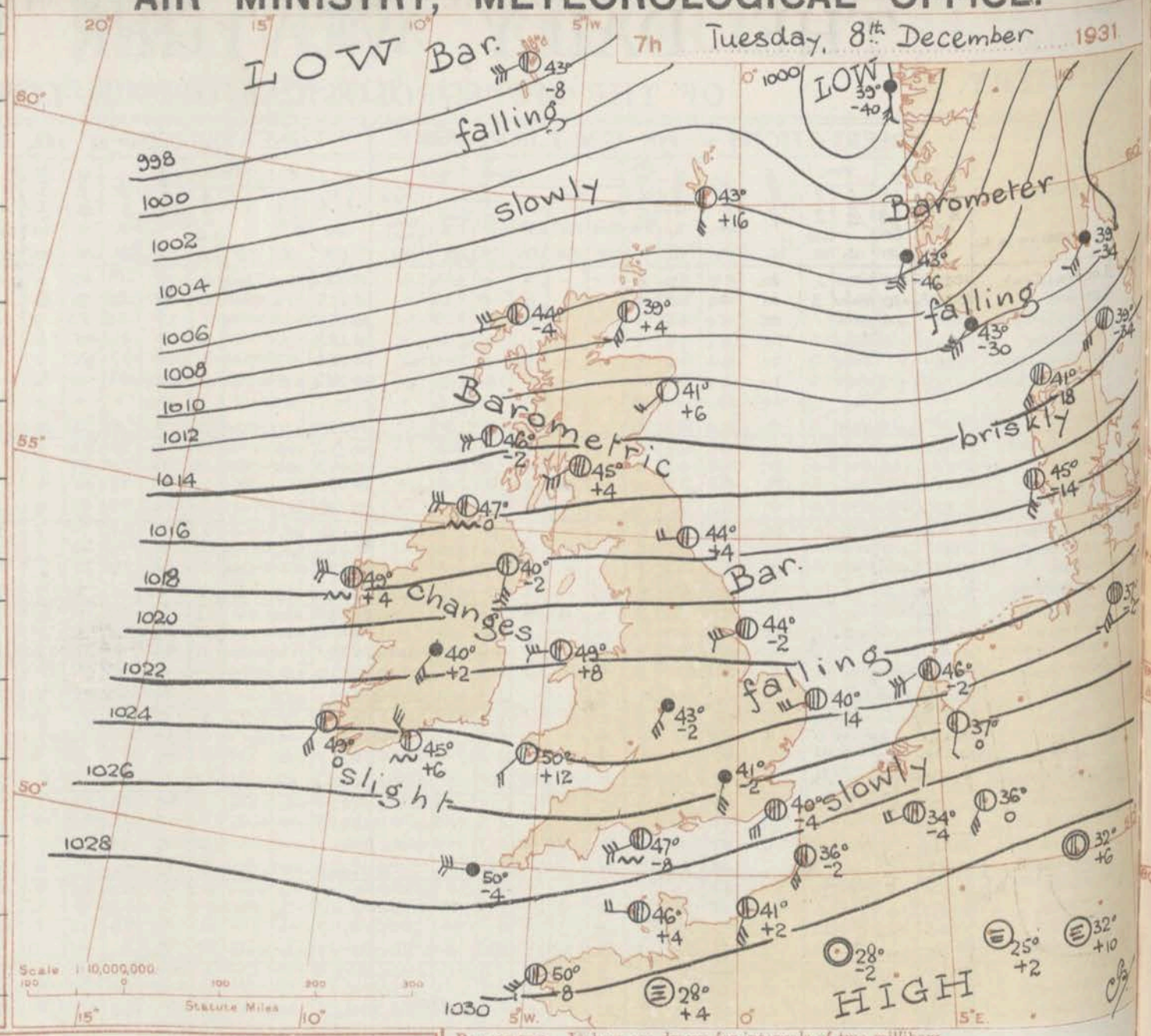
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

# AIR MINISTRY, METEOROLOGICAL OFFICE.

## REPORTS from HEALTH RESORTS for 7th December 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 6th to 9h. 7th | Temperature. Max. 9h.—17h. 7th | Rainfall. Night 17h. 6th to 9h. 7th | Rainfall. Day 9h.—17h. 7th | Sunshine. Sunrise to Sunset. 7th |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | b | bmb | 30 | 45 | 0.5 | - | 5.8 |
| | Bournemouth | b | b | 33 | 46 | 5 | - | 6.7 |
| | Ventnor ... | rb3 | b3 | 38 | 48 | 4 | - | 6.6 |
| | Southsea ... | b | b | 37 | 46 | 4 | - | 6.0 |
| | Bognor Regis | b | b | 37 | 47 | 6 | - | 6.7 |
| | Littlehampton | bxc | bc | 36 | 49 | 9 | - | 6.8 |
| | Worthing ... | b | b | 36 | 46 | 9 | - | 6.2 |
| | Brighton ... | bc | bc | 37 | 46 | 21 | - | 6.2 |
| | Eastbourne† | b | b | 36 | 45 | 6 | - | 7.1 |
| | Hastings† ... | b | bbc | 36 | 49 | 2 | - | 5.3 |
| | Folkestone ... | wbm | bm | 36 | 48 | - | - | 6.3 |
| | Dover... ... | fbm | mb | 37 | 46 | - | - | 6.2 |
| | Deal ... ... | b | b | 35 | 45 | - | - | 6.0 |
| | Ramsgate ... | b | bm | 39 | 48 | - | - | 6.3 |
| | Margate ... | bc | bc | 42 | 46 | - | - | 6.3 |
| 2 | Southend ... | bfm | b | 34 | 47 | Trace | - | 6.1 |
| | Maldon ... | xb | b | 32 | 46 | - | - | 6.3 |
| | Clacton-on-Sea | bc | bc | 34 | 40 | - | - | 6.3 |
| | Dovercourt ... | xbm | bcm | 34 | 45 | - | - | 6.1 |
| | Lowestoft ... | b | b | 33 | 41 | - | - | 6.4 |
| | Skegness ... | b | bcm | ? | 42 | Trace | - | 4.6 |
| | Mablethorpe | bbc | bccm | 31 | 41 | - | - | 4.7 |
| | Cleethorpes ... | xbm | bcc | 34 | 44 | - | - | 4.5 |
| 3 | Leamington S. | bc | bcc | 30 | 45 | - | - | 6.1 |
| 4 | Cheltenham† | cfxb | bbcm | 29 | 45 | 3 | - | 6.1 |
| 5 | Bath ... ... | mb | b | 32 | 47 | 5 | - | 6.9 |
| | Weymouth ... | b | b | 38 | 50 | 13 | - | 7.0 |
| | Jersey ... | bcb | bcf | 47 | 51 | 10 | - | 6.6 |
| | Torquay ... | pcpw | 3bmb | 36 | 51 | 0.5 | - | 7.0 |
| | Penzance ... | b | b | 43 | 52 | 0.3 | - | 5.3 |
| | St. Ives ... | b | b | 45 | 49 | - | - | 2.0 |
| | Bude ... ... | wb | b | 33 | 49 | 2 | - | 5.6 |
| | Ilfracombe ... | b | b | 39 | 48 | 1 | - | 6.4 |
| 6 | Aberystwyth | bcbcx | bcbcc | 32 | 49 | - | - | 5.4 |
| 7 | Llandudno ... | cbc | c | 43 | 48 | Trace | - | 2.0 |
| | Colwyn Bay... | bccb | bbccb | 41 | 49 | - | - | 1.6 |
| | Rhyl ... ... | cbcc | bc | 40 | 49 | - | - | 3.2 |
| 8 | Wallasey ... | b | bbcc | 38 | 49 | - | - | 4.5 |
| | Southport‖ ... | cbcc | cpcbc | 38 | 48 | - | Trace | 1.0 |
| | Blackpool ... | c | 0 | 40 | 48 | - | - | 0.4 |
| | Morecambe ... | pcbc | c | 34 | 47 | Trace | - | 0.5 |
| 9 | Ilkley... ... | b | bcdc | 33 | 46 | - | Trace | 3.2 |
| 10 | Berwick-on-T. | bc | c0 | 35 | 45 | - | - | 3.1 |
| 11 | Dunbar ... | bcm | c | 38 | 46 | - | - | 1.2 |
| 12 | Douglas ... | bxcb | cb | 39 | 46 | - | - | 0.0 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 8th Dec. 1931. |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands<br>4. W. Midlands<br>5. S.W. England<br>6. South Wales<br>7. North Wales<br>8. N.W. England<br>9. N. Midlands<br>10. N.E. England<br>11. S.E. Scotland<br>12. S.W. Scotland & Isle of Man | Moderate winds between west and south, fresh at times; mainly cloudy, occasional rain; rather mild or mild. |
| 13. A. W. Scotld. B. N.W. Scotland. ▼<br>14. Mid-Scotland<br>15. N.E. Scotland ▼<br>16. Orkneys and Shetlands. ▼<br>17. N.W. Ireland | Fresh winds between west and south, strong at times; mainly cloudy, occasional rain; rather mild. |
| 18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland | As 1 - 12. |

### GENERAL INFERENCE.

A large depression centred near Iceland will move eastward and small secondaries travelling in the westerly current on its southern side are likely to cross the British Isles. Weather is expected to be mild and mainly cloudy with occasional rain in most districts.

### FURTHER OUTLOOK.

Similar.

Time of issue of Gale Warnings.

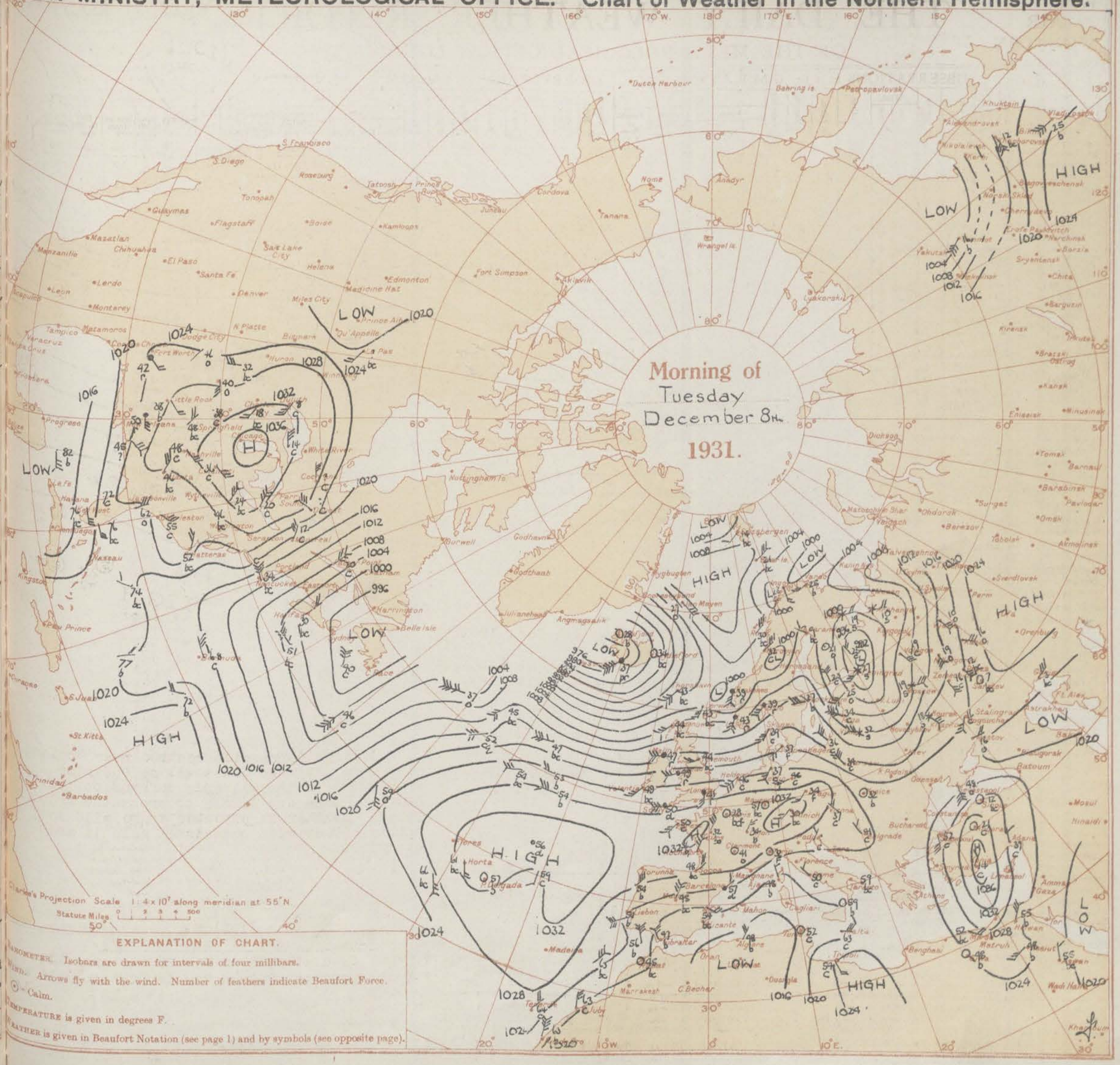
▼ South Cone at 0815 on 7th in District 13.
▼ South Cone at 1840 on 7th in Districts 15 and 16.

Forecasts issued at 0915 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.




## EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 8th December 1931.

No. 25.583

### OBSERVATIONS at 1 hr. G.M.T. 8th December

| District. | Stations. | Height above M.S.L. in feet. | Barom. at M.S.L. mb (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force. 0-12 (4) | Weather. (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud. Form. Low (9) | Form. Med. (10) | Form. High (11) | Amount. Low 0-10 (12) | Amount. Total 0-10 (13) | Height of Base. (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) ... | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 217 | 1028.7 | +2 | SWS | 3 | b | 39 | 75 | 7 | – | – | – | 0 | 0 | – |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester ... | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot, (S'thmtn) | 8 | 1029.1 | 0 | W | 3 | b | 39 | 85 | 7 | – | – | 1 | 0 | Tr. | – |
| | Dungeness ... | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne ... | 346 | 1029.0 | +4 | WNW | 2 | b | 37 | 85 | 6 | – | – | – | 0 | 0 | – |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston ... | 14 | 1025.7 | +2 | WSW | 2 | bc | 39 | 85 | 6 | – | 2 | – | 0 | 4.6 | – |
| | Cranwell ... | 240 | 1023.6 | -8 | SW | 5 | c | 43 | 75 | 6 | – | 3 | – | 0 | 9 | – |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield ... | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye ... | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill ... | 32 | 1028.9 | -2 | WSW | 5 | c | 49 | 75 | 8 | 4 | 4 | – | 4.6 | 7.8 | 2500 |
| | Plymouth ... | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth ... | 200 | 1029.2 | -4 | SW | 2 | bc | 46 | 85 | 8 | 5 | – | – | 2.3 | 2.3 | 4000 |
| | Scilly (St. Mary's) | 163 | 1028.6 | -8 | WS | 5 | bc | 49 | 85 | 8 | 4 | 1 | – | 2.3 | 4.6 | 4000 |
| | Guernsey ... | 175 | 1030.5 | +4 | – | 0 | b | 42 | 85 | 9 | – | – | – | 0 | 0 | – |
| 6 | Pembroke ... | 142 | 1024.6 | -6 | SW | 5 | pr | 50 | 96 | 6 | 6 | – | – | 10 | 10 | 800 |
| 7 | Holyhead ... | 26 | 1020.4 | -10 | WSW | 6 | o/d | 50 | 96 | 6 | 6 | – | – | 10 | 10 | 1500 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate ... | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head ... | 29 | 1021.7 | -2 | SW | 5 | c | 42 | 95 | 7 | 5 | 1 | – | 4.6 | 7.8 | 2500 |
| | Catterick ... | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth ... | 67 | 1016.4 | -14 | WSW | 4 | o | 48 | 75 | 7 | 6 | – | – | 10 | 10 | 1500 |
| 11 | Inchkeith ... | 190 | 1013.1 | -16 | SSW | 5 | c | 47 | 85 | 8 | 5 | 2 | – | 4.6 | 9 | 2500 |
| | Leuchars ... | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew ... | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13 | Tiree ... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13 | Stornoway ... | 34 | 1008.3 | +20 | WNW | 3 | c/r | 42 | 85 | 6 | 6 | – | – | 7.8 | 7.8 | 1500 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen ... | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick ... | 81 | 1006.8 | -14 | SW | 3 | c | 44 | 95 | 8 | 8 | 1 | – | 4.6 | 7.8 | 2500 |
| 16 | Lerwick ... | 54 | 1003.2 | -38 | S | 3 | rr | 47 | 95 | 6 | 6 | – | – | 10 | 10 | 800 |
| 17 | Blacksod Point | 18 | 1018.2 | +10 | WNW | 6 | q | 49 | 75 | 6 | 3 | – | – | 4.6 | 4.6 | 800 |
| 18 | Malin Head ... | 52 | 1015.5 | +12 | W | 6 | b | 49 | 85 | 8 | 2 | – | – | Tr. | Tr. | 4000 |
| | Aldergrove ... | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee ... | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1023.4 | +6 | W | 5 | b | 50 | 75 | 8 | – | – | – | 0 | 0 | – |
| | Roches Point ... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 8th December

| Stations. | Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind. Direc. (17) | Wind. Force. 0-12 (18) | Weather. (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud. Form. Low. (23) | Form. Med. (24) | Form. High. (25) | Amount. Low. 0-10 (26) | Amount. Total 0-10 (27) | Height of Base (feet) (28) | State of Ground. 0-9 (29) | Sea. 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) ... | 1026.8 | -4 | SW'S | 3 | r.r. | 41 | 95 | 6 | 6 | 7 | – | 9 | 10 | 1500 | 1 | * |
| Croydon ... | 1027.2 | -2 | SSW | 3 | r.r. | 41 | 85 | 6 | 5 | 2 | – | 7.8 | 10 | 2500 | 1 | * |
| S. Farnborough | 1026.8 | -2 | SW'W | 3 | rr | 43 | 95 | 7 | 6 | 2 | – | 7.8 | 9+ | 1500 | 1 | * |
| Winchester ... | 1027.1 | -2 | SSW | 2 | id. | 39 | 95 | 7 | 5 | 2 | – | 9 | 10 | 2500 | 1 | * |
| Boscombe Down | 1026.9 | -4 | SSW | 3 | c/r | 43 | 95 | 7 | 5 | 2 | – | 4.6 | 10 | 800 | 1 | * |
| Calshot, (S'thmtn) | 1027.9 | -6 | WSW | 3 | c/r. | 46 | 85 | 7 | 5 | 7 | – | 4.6 | 9+ | 2500 | 1 | 1 |
| Dungeness ... | * | * | W | 3 | c | * | * | 7 | 2 | 7 | * | 4.6 | 7.8 | 2500 | * | 1 |
| Lympne ... | 1027.6 | -4 | W'S | 3 | c | 40 | 85 | 6 | 5 | 2 | – | 4.6 | 10 | 4000 | 1 | * |
| Shoeburyness | 1026.2 | -10 | SW | 4 | id. | 42 | 85 | 7 | 5 | 2 | – | 9+ | 9+ | 800 | 1 | * |
| Felixstowe ... | 1025.6 | -10 | WSW | 4 | ir. | 40 | 85 | 6 | 5 | 2 | – | 4.6 | 7.8 | 2500 | 0 | 2 |
| Gorleston ... | 1023.6 | -14 | WSW | 3 | c/r. | 40 | 85 | 6 | 6 | – | – | 7.8 | 7.8 | 1500 | 1 | 2 |
| Cranwell ... | 1022.[illegible] | -2 | SW'W | 4 | id. | 45 | 85 | 6 | 5 | 3 | 4 | 2.3 | 7.8 | 2500 | 1 | * |
| Birmingham ... | 1023.6 | -2 | SW | 3 | ir. | 43 | 95 | 7 | 6 | – | – | 10 | 10 | 800 | 1 | * |
| Upper Heyford | 1025.3 | -6 | SW | 4 | c | 41 | 95 | 7 | 5 | – | – | 9+ | 9+ | 1500 | 1 | * |
| Leafield ... | 1024.6 | -6 | SSW | 4 | c | 40 | 95 | 8 | 5 | – | – | 9+ | 9+ | 1500 | 1 | * |
| Ross-on-Wye ... | 1023.9 | 0 | SW | 3 | id. | 45 | 95 | 7 | 5 | – | – | 9+ | 9+ | 2500 | 1 | * |
| Portland Bill ... | 1027.0 | -8 | WSW | 5 | pr | 47 | 75 | 8 | 4 | – | – | 10 | 10 | 2500 | 1 | 4 |
| Plymouth ... | 1026.7 | -8 | WSW | 5 | d.d. | 47 | 95 | 6 | 5 | – | – | 10 | 10 | 450 | 1 | 2 |
| Falmouth ... | 1026.5 | -4 | WSW | 6 | r.r. | 48 | 95 | 6 | 6 | – | – | 10 | 10 | 2500 | 1 | 3 |
| Scilly (St. Mary's) | 1026.9 | -4 | W | 5 | DD | 50 | 95 | 4 | 5 | – | – | 10 | 10 | 1500 | 1 | 3 |
| Guernsey ... | 1029.6 | +4 | W | 2 | c | 46 | 85 | 7 | 7 | – | – | 7.8 | 7.8 | 2500 | 0 | 1 |
| Pembroke ... | 1024.0 | +12 | SW | 2 | bc | 50 | 95 | 7 | 5 | 6 | – | 2.3 | 4.6 | 2500 | 1 | 2 |
| Holyhead ... | 1021.5 | +8 | W | 4 | bc | 49 | 85 | 8 | 5 | – | – | 2.3 | 2.3 | 2500 | 1 | 3 |
| Chester (Sealand) | 1022.2 | +4 | W'S | 3 | bc | 47 | 75 | 7 | 5 | – | – | 4.6 | 4.6 | 4000 | 1 | * |
| L'pool (Bidston) | 1021.3 | +6 | W | 4 | bc | 46 | 85 | 8 | 5 | – | – | 2.3 | 2.3 | 2500 | 1 | * |
| Harrogate ... | 1020.8 | 0 | WSW | 1 | b | 42 | 95 | 7 | 6 | 4 | – | Tr | Tr | 2500 | 1 | * |
| Spurn Head ... | 1020.5 | -2 | WSW | 4 | c | 44 | 95 | 7 | 4 | 3 | – | 4.6 | 7.8 | 2500 | 0 | 3 |
| Catterick ... | 1019.4 | +10 | SSE | 3 | b | 43 | 85 | 8 | – | 3 | – | 0 | 1 | – | 1 | * |
| Tynemouth ... | 1016.7 | +4 | W | 2 | bc | 44 | 85 | 6 | 5 | – | – | 4.6 | 4.6 | 800 | 0 | 2 |
| Inchkeith ... | 1014.3 | +4 | SW | 4 | bc | 45 | 85 | 8 | 5 | 8 | – | 2.3 | 2.3 | 4000 | 0 | 3 |
| Leuchars ... | 1014.0 | +14 | WSW | 3 | b | 39 | 85 | 8 | 4 | 6 | 2 | Tr | 1 | 4000 | 1 | * |
| Renfrew ... | 1015.6 | +4 | WSW | 4 | c | 45 | 85 | 6 | 8 | – | – | 9 | 9 | 1500 | 1 | * |
| Eskdalemuir ... | 1017.7 | +10 | WSW | 5 | bc | 41 | 85 | 8 | 5 | – | – | 2.3 | 2.3 | 1500 | 1 | * |
| Tiree ... | 1012.4 | -2 | WSW | 5 | bc/pr | 46 | 75 | 8 | 3 | – | 3 | 2.3 | 2.3 | 1500 | 1 | 3 |
| Stornoway ... | 1007.7 | -4 | WSW | 4 | bc/pr | 44 | 85 | 7 | 3 | – | – | 4.6 | 4.6 | 1500 | 1 | 2 |
| Dalwhinnie ... | 1013.6 | +2 | S | 3 | r | 37 | 95 | 6 | 4 | – | – | 2.3 | 2.3 | 800 | 1 | * |
| Aberdeen ... | 1012.1 | +6 | SW'W | 2 | b | 41 | 75 | 7 | – | 3 | – | 0 | Tr | – | 1 | 1 |
| Wick ... | 1008.2 | -14 | SW | 4 | bc | 39 | 85 | 8 | 3 | – | – | 2.3 | 2.3 | 2500 | 1 | 3 |
| Lerwick ... | 1003.9 | +16 | SSW | 2 | bc | 43 | 85 | 7 | 5 | – | – | 4.6 | 4.6 | 1500 | 1 | * |
| Blacksod Point | 1018.4 | +4 | WNW | 5 | c | 49 | 75 | 7 | 8 | – | – | 7.8 | 7.8 | 450 | 0 | 4 |
| Malin Head ... | 1015.4 | 0 | W | 5 | bc/pr | 47 | 85 | 8 | 3 | – | – | 2.3 | 2.3 | 1500 | 1 | 4 |
| Aldergrove ... | 1018.6 | -2 | S | 4 | bc | 40 | 95 | 8 | 8 | – | 3 | 2.3 | 2.3 | 2500 | 1 | * |
| Donaghadee ... | 1018.3 | 0 | WSW | 2 | bc | 42 | 85 | 7 | 5 | – | – | 2.3 | 2.3 | 2500 | 1 | 1 |
| Birr Castle ... | 1021.8 | +2 | SW | 3 | ir | 40 | 95 | 7 | 6 | – | – | 9 | 9 | 1500 | 1 | * |
| Valentia Obsy.† | 1024.0 | 0 | SW | 3 | bc | 49 | 85 | 8 | 5 | – | 1 | 2.3 | 4.6 | 1500 | 1 | – |
| Roches Point ... | 1024.3 | +6 | NW | 3 | bc | 45 | 95 | 8 | 3 | – | – | 2.3 | 2.3 | 2500 | 1 | 4 |

### PAST 24 HOURS.

| Stations. | Temperature. Max. Day 7h-18h °F. (31) | Min. Night 18h-7h °F (32) | Min. on Grass °F. (33) | Rainfall. Day 7h-18h mm. (34) | Rainfall. Night 18h-7h mm. (35) | Sunshine 7h. Hrs. (36) |
|---|---|---|---|---|---|---|
| London (Kew) ... | 45 | 35 | 27 | – | 0.5 | 5.4 |
| Croydon ... | 46 | 39 | 32 | – | Tr | 5.6 |
| S. Farnborough | 47 | 32 | 20 | – | 1 | 6.2 |
| Winchester ... | 45 | 32 | 23 | – | 0.5 | 6.1 |
| Boscombe Down | 45 | 32 | 27 | Tr | 1 | * |
| Calshot, (S'thmtn) | 46 | 38 | 29 | – | Tr | 6.7 |
| Dungeness ... | 42 | 33 | * | – | – | * |
| Lympne ... | 45 | 34 | 28 | – | – | 6.7 |
| Shoeburyness | 46 | 33 | 29 | – | Tr | 6.3 |
| Felixstowe ... | 45 | 36 | 30 | – | – | 5.9 |
| Gorleston ... | 44 | 37 | 35 | – | Tr | [illegible] |
| Cranwell ... | 42 | 38 | 34 | Tr | Tr | 5.2 |
| Birmingham ... | 43 | 41 | 38 | – | Tr | 6.3 |
| Upper Heyford | 46 | 33 | 26 | – | 1 | * |
| Leafield ... | 43 | 34 | 23 | – | 0.5 | 6.7 |
| Ross-on-Wye ... | 48 | 39 | 34 | – | – | 7.0 |
| Portland Bill ... | 48 | 47 | * | – | Tr | * |
| Plymouth ... | 50 | 35 | 32 | – | 4 | 6.0 |
| Falmouth ... | 50 | 47 | * | – | 1 | 6.5 |
| Scilly (St. Mary's) | 52 | 45 | 26 | – | 3 | 5.9 |
| Guernsey ... | 48 | 38 | ~~36~~ | – | – | 6.3 |
| Pembroke ... | 50 | 48 | * | – | 0.6 | 4.0 |
| Holyhead ... | 49 | 48 | 42 | – | 1 | 1.5 |
| Chester (Sealand) | 49 | 43 | 33 | – | 1 | 4.3 |
| L'pool (Bidston) | 47 | 43 | 40 | – | 0.1 | 4.4 |
| Harrogate ... | 46 | 42 | 34 | – | 0.3 | 3.6 |
| Spurn Head ... | 44 | 41 | * | – | Tr | 4.3 |
| Catterick ... | 48 | 42 | 30 | – | 0.1 | * |
| Tynemouth ... | 47 | 43 | 37 | – | – | * |
| Inchkeith ... | 46 | 44 | 41 | – | 0.3 | 0.7 |
| Leuchars ... | 45 | 39 | 34 | Tr | 0.1 | 2.9 |
| Renfrew ... | 48 | 41 | 38 | 0.2 | 3 | 0.0 |
| Eskdalemuir ... | 43 | 40 | 34 | Tr | 5 | 0.4 |
| Tiree ... | 49 | 42 | 38 | 0.1 | 5 | 0.0 |
| Stornoway ... | 49 | 40 | * | – | 7 | 0.1 |
| Dalwhinnie ... | 42 | 35 | 31 | – | 5 | 0.3 |
| Aberdeen ... | 45 | 39 | 28 | Tr | 0.2 | 1.8 |
| Wick ... | 42 | 38 | * | – | 0.4 | * |
| Lerwick ... | 43 | 45 | * | 1 | 4 | 1.5 |
| Blacksod Point | 51 | 45 | * | 4 | 1 | * |
| Malin Head ... | 49 | 43 | * | 0.3 | 3 | 0.4 |
| Aldergrove ... | 44 | 39 | 34 | Tr | 2 | 0.1 |
| Donaghadee ... | 45 | 40 | * | – | 1 | * |
| Birr Castle ... | 47 | 38 | 31 | – | 1 | 3.1 |
| Valentia Obsy.† | 51 | 47 | 42 | 2 | 3 | 0.5 |
| Roches Point ... | 50 | 44 | * | 0.1 | 8 | * |

### LONDON OBSERVATIONS.

Day 8—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet. | Weather Morning. (24 hrs. ended 9h.) | Weather Afternoon. | Weather Night. | Temperature Day Max. °F. | Night Min. °F. | Min. on Grass °F. | Rainfall Day. mm. | Rainfall Night. mm. | Sunshine to Sunset. hrs. (Yesterday.) | Humidity 15h. G.M.T. % (Yesterday.) | Humidity 9h. G.M.T. % (To-day.) | Visibility 9h. (To-day.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew ... | 18 | bxb3o | bcbm,w | bm,wc | 46 | 35 | 27 | – | 0.5 | 5.4 | * | * | 6 |
| Croydon ... | 217 | bfbcm | bccm | bmcd | 46 | 39 | 32 | – | Tr | 5.6 | * | * | 6 |
| Greenwich (Royal Observatory) ... | 149 | bfbf | bcm | bxbcow | 45 | 36 | 25 | – | 0.3 | 1.4 | 61 | 82 | 5 |
| City (Bunhill Row) ... | — | * | * | * | * | * | * | * | * | 1.9 | * | * | * |
| Westminster (St. James' Park) ... | 27 | * | * | * | 47 | 36 | 29 | – | 1 | 2.6 | 58 | 81 | * |
| Regents Pk. (Botanic Gardens) ... | 168 | * | * | * | * | * | * | * | * | 4.6 | * | * | * |
| Camden Square ... | 110 | b | b | * | 45 | 37 | 30 | – | 1 | * | * | 92 | * |
| Kensington ... | 80 | bxbm | bm | * | 46 | 37 | 27 | – | 1 | 4.4 | At 18h. 75 | 91 | * |
| Hampstead Observatory ... | 450 | bcm | bmx | * | 46 | 32 | 26 | – | 1 | 5.9 | * | 94 | * |

### FOREIGN OBSERVATIONS.

| Stations. | 18h. G.M.T. 7th December. Barom. mb. | Wind. Direc. | Wind. Force. | Weather. | Temp. °F. | 7h. G.M.T. 8th December. Barom. mb. | Wind. Direc. | Wind. Force. | Weather. | Temp. °F. | Past 24 Hours. Max. Day °F. | Min. Night °F. | Rainfall. Day. mm. | Rainfall. Night. mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris ... | 1027.4 | N | 3 | b | 41 | 1030.9 | – | 0 | f | 28 | 48 | 28 | – | – |
| Brussels ... | 1026.4 | WNW | 2 | b | 37 | 1028.8 | WSW | 2 | c | 34 | 46 | 30 | – | – |
| Berlin ... | 1014.9 | W | 3 | pr | 41 | 1025.3 | W'S | 4 | c | 46 | 45 | 37 | Tr | 0.1 |
| Zürich ... | 1025.4 | N | 1 | o | 46 | 1031.0 | NW | 1 | bc | 36 | 54 | 36 | 2 | Tr |
| Rome ... | 1010.5 | SE | 3 | c | 59 | 1022.5 | NW | 1 | c | 50 | 61 | 50 | Tr | – |

### Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 8th

| South Kensington. Max. | Time. | Min. | Time. |
|---|---|---|---|
| 2.0 | 10h 7th | Nil | 2-6h 8th |

| Kew Observatory. Max. | Time. | Min. | Time. |
|---|---|---|---|
| 1.9 ~~1.5~~ | 10h 7th | 0.1 ~~0.3~~ | 2-6h 8th |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort. No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13-18 | 9 | 47-54 |
| 1 | 1-3 | 5 | 19-24 | 10 | 55-63 |
| 2 | 4-7 | 6 | 25-31 | 11 | 64-75 |
| 3 | 8-12 | 7 | 32-38 | 12 | 75 |
| | | 8 | 39-46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | Objects not visible at |
|---|---|
| 0 Dense fog | 55 yards. |
| 1 Thick fog | 220 ,, |
| 2 Fog | 550 ,, |
| 3 Moderate fog | 1,100 ,, |
| 4 Mist or haze | 1¼ miles. |
| 5 Poor visibility | 2½ ,, |
| 6 Moderate ,, | 6¼ ,, |
| 7 Good ,, | 12½ ,, |
| 8 Very good ,, | 31 ,, |
| 9 Excellent ,, | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | |
|---|---|
| 0 Calm. | 5 Very rough. |
| 1 Smooth. | 6 High. |
| 2 Slight. | 7 Very high. |
| 3 Moderate. | 8 Precipitous. |
| 4 Rough. | 9 Confused. |

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 9th December 1931.

No. 25584

### OBSERVATIONS at 13h. G.M.T. 8th December

| District | Stations. (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0-12 (4) | Weather. (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud. Form. Low. (9) | Form. Med. (10) | Form. High (11) | Amount. Low 0-10 (12) | Amount. Total 0-10 (13) | Height of Base. (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1024.6 | -2.0 | SW | 3 | o | 47 | 95 | 5 | 5 | - | - | 10 | 10 | 2500 |
| | Croydon | 1025.0 | -1.6 | W | 3 | c | 48 | 85 | 6 | 5 | 2 | - | 9 | 10 | 1500 |
| | S. Farnborough | 1024.9 | -1.6 | WSW | 3 | c/d | 48 | 95 | 7 | 5 | 2 | - | 9 | 9+ | 450 |
| | Winchester | 1025.3 | -1.4 | SW'W | 3 | o | 45 | 95 | 6 | 5 | - | - | 10 | 10 | 450 |
| | Roscombe Down | 1025.9 | -4 | WSW | 3 | c/d | 48 | 95 | 7 | 5 | 2 | - | 9+ | 10 | 800 |
| | Calshot, S'thmtn | 1025.9 | -1.4 | SW'W | 4 | r.o. | 50 | 95 | 6 | 6 | - | - | 10 | 10 | 800 |
| | Dungeness | * | * | SW'W | 4 | c | * | * | 7 | 8 | 2 | - | 7.8 | 9+ | 1500 |
| | Lympne | 1025.7 | -1.8 | W | 3 | i d. | 46 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 |
| 2 | Shoeburyness | 1024.3 | -1.2 | WSW | 3 | c | 47 | 95 | 6 | 5 | 2 | - | 9 | 10 | 2600 |
| | Felixstowe | 1024.6 | -8 | W | 3 | c | 46 | 85 | 6 | 5 | 2 | - | 9 | 10 | 800 |
| | Gorleston | 1022.7 | -8 | NNW | 3 | c | 46 | 95 | 6 | 8 | - | - | 7.8 | 7.8 | 1500 |
| | Cranwell | 1022.0 | -1.2 | WSW | 3 | c | 49 | 75 | 6 | - | 3 | 9 | 0 | 9 | - |
| 3 | Birmingham | 1023.4 | -6 | W | 3 | c | 49 | 75 | 6 | 1 | - | 6 | 4.6 | 7.8 | 1500 |
| | Upper Heyford | 1024.2 | -1.0 | SW | 2 | c | 48 | 85 | 6 | 5 | 7 | 6 | 2.3 | 7.8 | 800 |
| | Leafield | 1023.7 | 0 | WSW | 3 | c | 47 | 85 | 7 | 1 | - | 2 | 2.3 | 7.8 | 800 |
| 4 | Ross-on-Wye | 1023.8 | -6 | WSW | 2 | bc | 51 | 65 | 8 | 1 | - | 5 | 1 | 4.6 | 4000 |
| 5 | Portland Bill | 1024.9 | -1.8 | W'S | 4 | RR | 50 | 95 | 5 | 6 | - | - | 10 | 10 | 1500 |
| | Plymouth | 1026.3 | -6 | - | 0 | c | 49 | 95 | 6 | 9 ~~8~~ | 1 ~~2~~ | - | 7.8 | 9+ | 800 |
| | Falmouth | 1027.0 | +2 | NW | 2 | bc | 52 | 85 | 7 | 8 | - | - | 4.6 | 4.6 | 4000 |
| | Scilly (St. Mary's) | 1027.7 | -2 | NNW | 4 | bc | 52 | 85 | 6 | 2 | 4 | 3 | 1 | 4.6 | 4000 |
| | Guernsey | 1027.5 | -1.8 | WSW | 4 | rr | 48 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 |
| 6 | Pembroke | 1024.2 | -4 | WSW | 3 | c | 52 | 95 | 6 | 3 | 6 | - | 4.6 | 7.8 | 1500 |
| 7 | Holyhead | 1021.5 | -6 | WSW | 5 | c | 49 | 85 | 7 | 2 | 7 | 8 | Tr | 9+ | 2500 |
| | Chester (Sealand) | 1022.4 | -6 | W'S | 3 | c | 50 | 75 | 8 | 4 | 1 | 1 | 4.6 | 9+ | 4000 |
| 8 | L'pool (Bidston) | 1021.6 | -2 | W | 5 | c | 48 | 75 | 8 | - | 2 | 7 | 0 | 9+ | - |
| 9 | Harrogate | 1019.9 | -6 | SW | 1 | c | 47 | 85 | 7 | 3 | - | 9 | 7.8 | 9 | 2500 |
| 10 | Spurn Head | 1020.0 | +4 | WSW | 3 | c | 48 | 85 | 6 | 4 | 3 | 9 | 4.6 | 7.8 | 1500 |
| | Catterick | 1019.1 | -6 | W | 3 | c | 48 | 75 | 8 | 8 | 7 | 8 | 2.3 | 9+ | 1500 |
| | Tynemouth | 1017.4 | 0 | WSW | 3 | c | 48 | 75 | 6 | 6 | - | - | 7.8 | 7.8 | 1500 |
| 11 | Inchkeith | 1014.5 | 0 | SW | 5 | bc | 46 | 85 | 8 | 5 | 8 | - | 2.3 | 2.3 | 4000 |
| | Leuchars | 1014.2 | +2 | WSW | 4 | b | 46 | 75 | 6 | 4 | - | 1 | Tr | Tr | 4000 |
| 12 | Renfrew | 1017.2 | +1.0 | WSW | 3 | bc/pr | 42 | 85 | 7 | 9 | 9 | 3 | 2.3 | 4.6 | 2500 |
| | Eskdalemuir | 1017.1 | -6 | WSW | 5 | bc/pr | 43 | 85 | 7 | 1 | - | 8 | 1 | 4.6 | 1500 |
| 13a | Tiree | 1014.0 | +6 | W'S | 6 | bc | 49 | 75 | 7 | 8 | - | 3 | 4.6 | 4.6 | 2500 |
| 13d | Stornoway | 1000 | +8 | SW | 3 | c | 46 | 95 | 8 | 8 | 6 | - | 4.6 | 7.8 | 2500 |
| 15 | Dalwhinnie | 1015.5 | 0 | W | 2 | c | 40 | 75 | 8 | 4 | 3 | 2 | 4.6 | 7.8 | 800 |
| | Aberdeen | 1012.1 | 0 | SW | 2 | b | 47 | 65 | 8 | 5 | 3 | - | Tr | Tr | 4000 |
| | Wick | 1008.7 | 0 | WSW | 4 | bc | 42 | 85 | 8 | 8 | 8 | 1 | 2.3 | 4.6 | 2500 |
| 16 | Lerwick | 1003.6 | -8 | W'N | 3 | iR | 43 | 85 | 7 | 6 | - | 4 | 7.8 | 9 | 1500 |
| 17 | Blacksod Point | 1020.3 | +4 | WNW | 5 | PR(R) | 49 | 75 | 8 | 8 | 4 | - | 7.8 | 7.8 | 220 |
| 18 | Malin Head | 1017.0 | +4 | W | 4 | c/jp | 46 | 95 | 7 | 8 | 9 | - | 4.6 | 7.8 | 1500 |
| | Aldergrove | 1019.6 | -2 | S'W | 4 | b | 43 | 85 | 7 | 8 | - | 1 | Tr | 1 | 1500 |
| | Donaghadee | 1019.1 | -2 | SSW | 2 | bc | 46 | 85 | 7 | 5 | - | - | 2.3 | 2.3 | 2500 |
| 19 | Birr Castle | 1022.8 | 0 | WNW | 3 | pr | 47 | 95 | 7 | 9 | 1 | - | 7.8 | 9 | 1500 |
| 20 | Valentia Obsy. | 1025.8 | +1.0 | W'S | 4 | bc | 51 | 75 | 8 | 8 | - | - | 4.6 | 4.6 | 1500 |
| | Roches Point | 1024.9 | +4 | W | 4 | c | 46 | 95 | 8 | 3 | - | - | 7.8 | 7.8 | 1500 |

### OBSERVATIONS at 18h. G.M.T. 8th December

| District | Stations. | Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind. Direc. (17) | Wind. Force 0-12 (18) | Weather. (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud. Form. Low. (23) | Form. Med. (24) | Form. High. (25) | Amount. Low. 0-10 (26) | Amount. Total 0-10 (27) | Height of Base (feet) (28) | State of Ground. 0-9 (29) | Sea. 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1023.3 | -4 | SW | 1 | bcf | 43 | 95 | 3 | 5 | - | - | 4.6 | 4.6 | 2500 | 1 | * |
| | Croydon | 1023.3 | -6 | W'N | 2 | c | 45 | 95 | 5 | - | 1 | - | 0 | 7.8 | - | 1 | * |
| | S. Farnborough | 1023.6 | -2 | W'S | 1 | bc | 43 | 95 | 7 | - | 7 | - | 0 | 4.6 | - | 1 | * |
| | Winchester | 1023.8 | +2 | WNW | 3 | c | 44 | 95 | 6 | - | 1 | - | 0 | 9+ | - | 1 | * |
| | Roscombe Down | 1024.4 | +2 | W | 3 | c | 43 | 95 | 6 | 5 | 7 | - | 4.6 | 7.8 | 2500 | 1 | * |
| | Calshot, S'thmtn | 1024.4 | -2 | W | 3 | bc | 45 | 95 | 7 | 5 | 2 | - | 2.3 | 4.6 | 2500 | 1 | 1 |
| | Dungeness | * | * | SW'W | 1 | o | * | * | 5 | 6 | - | * | 10 | 10 | 1500 | * | 2 |
| | Lympne | 1023.0 | -1.4 | WNW | 2 | c/r | 46 | 95 | 6 | 5 | 2 | - | 4.6 | 10 | 2500 | 1 | * |
| 2 | Shoeburyness | 1022.7 | -1.0 | W SW | 2 | of | 44 | 95 | 3 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Felixstowe | 1023.6 | -2 | W | 2 | c | 45 | 95 | 6 | - | 2 | - | 0 | 10 | - | 0 | 1 |
| | Gorleston | 1021.6 | -2 | W | 1 | o | 44 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 0 | 2 |
| | Cranwell | 1021.2 | -6 | W | 3 | bc | 44 | 85 | 6 | 5 | - | 8 | 1 | 2-3 | 5700 | 1 | * |
| 3 | Birmingham | 1022.5 | 0 | SW | 2 | b | 45 | 85 | 7 | 5 | - | - | 1 | 1 | 2500 | 1 | * |
| | Upper Heyford | 1024.3 | -4 | SW | 3 | c | 43 | 95 | 5 | - | 2 | 8 | 0 | 10 | - | 1 | * |
| | Leafield | 1023.0 | -6 | SW | 2 | c | 42 | 95 | 6 | 5 | - | - | 10 | 10 | ~~2500~~ 1500 | 1 | * |
| 4 | Ross-on-Wye | 1023.1 | -4 | WSW | 2 | ir. | 46 | 85 | 7 | 9 | - | - | 9+ | 9+ | 2500 | 1 | * |
| 5 | Portland Bill | 1024.3 | -4 | WNW | 4 | c ~~8~~ | 50 | 95 | 8 | 4 | 6 | - | 4.6 | 7.8 | 1500 | 1 | 3 |
| | Plymouth | 1026.0 | 0 | - | 0 | bc/pr | 47 | 85 | 6 | 3 | - | - | 4.6 | 4.6 | 1500 | 1 | 1 |
| | Falmouth | 1026.2 | 0 | W | 3 | bc | 49 | 95 | 7 | 8 | - | - | 4.6 | 4.6 | 4000 | 0 | 2 |
| | Scilly (St. Mary's) | 1027.4 | +4 | NNW | 6 | b | 50 | 85 | 8 | 1 | - | - | 1 | 1 | 4000 | 1 | 4 |
| | Guernsey | 1025.6 | 0 | NW | 3 | bc/r | 49 | 95 | 9 | 8 | - | - | 4.6 | 4.6 | 2500 | 2 | 3 |
| 6 | Pembroke | 1023.4 | +8 | NW | 4 | q | 50 | 95 | 7 | 6 | 6 | - | 1 | 4.6 | 2500 | 0 | 2 |
| 7 | Holyhead | 1021.8 | +4 | WNW | 6 | bc | 48 | 85 | 8 | 4 | - | - | 2.3 | 2.3 | 2500 | 1 | 3 |
| | Chester (Sealand) | 1021.7 | 0 | W | 3 | b | 47 | 75 | 7 | 8 | - | - | 1 | 1 | 4000 | 1 | * |
| 8 | L'pool (Bidston) | 1021.3 | 0 | W | 5 | bc/pr | 48 | 95 | 8 | 8 | - | - | 4.6 | 4.6 | 1500 | 1 | * |
| 9 | Harrogate | 1020.3 | +6 | SW | 1 | c | 44 | 85 | 7 | 5 | - | - | 7.8 | 7.8 | ~~450~~ 4000 | 1 | * |
| 10 | Spurn Head | 1019.9 | 0 | W | 3 | bc | 45 | 95 | 6 | 4 | 2 | - | 4.6 | 4.6 | 1500 | 0 | 2 |
| | Catterick | 1019.5 | +2 | W | 2 | b | 39 | 95 | 8 | - | - | - | 0 | 0 | - | 0 | * |
| | Tynemouth | 1017.7 | +6 | W | 2 | bc | 44 | 85 | 6 | 2 | - | - | 4.6 | 4.6 | 2500 | 0 | 2 |
| 11 | Inchkeith | 1015.7 | +2 | SW | 5 | bc | 45 | 85 | 7 | 5 | - | - | 4.6 | 4.6 | 2500 | 0 | 3 |
| | Leuchars | 1015.0 | +1.0 | WSW | 3 | bc | 40 | 85 | 7 | 4 | 4 | - | 2.3 | 2.3 | 2500 | 1 | * |
| 12 | Renfrew | 1017.3 | +6 | SW | 3 | c | 45 | 85 | 7 | 8 | - | - | 7.8 | 7.8 | 1500 | 1 | * |
| | Eskdalemuir | 1017.4 | +4 | W | 5 | b | 41 | 75 | 8 | 4 | - | - | Tr | Tr | 1500 | 1 | * |
| 13a | Tiree | 1015.9 | +1.2 | W'S | 5 | c/pr | 46 | 75 | 7 | 8 | - | 3 | 7.8 | 9 | 1500 | 1 | 3 |
| 13d | Stornoway | 1011.0 | +1.2 | WSW | 5 | c/pr | 43 | 95 | 8 | 8 | 6 | - | 7.8 | 9 | 1500 | 1 | 2 |
| 15 | Dalwhinnie | 1016.3 | +1.2 | W | 2 | RR | 38 | 85 | 6 | 3 | 6 | - | 7.8 | 10 | 800 | 1 | * |
| | Aberdeen | 1013.0 | +8 | SW | 2 | b | 41 | 75 | 7 | - | 4 | - | 0 | 1 | - | 1 | 1 |
| | Wick | 1009.2 | +6 | WSW | 3 | bc | 40 | 95 | 8 | 8 | 8 | 1 | 2-3 | 4.6 | 2500 | 1 | 2 |
| 16 | Lerwick | 1003.6 | 0 | SSW | 2 | iR | 45 | 85 | 7 | 6 | - | - | 7.8 | 7.8 | 1500 | 1 | * |
| 17 | Blacksod Point | 1023.0 | +1.8 | WNW | 4 | bc | 47 | 85 | 7 | 3 | - | - | 4.6 | 4.6 | 800 | 1 | 3 |
| 18 | Malin Head | 1018.9 | +1.6 | WNW | 3 | bc/jp | 46 | 85 | 7 | 3 | - | - | 2.3 | 2.3 | 2500 | 1 | 4 |
| | Aldergrove | 1021.2 | +1.2 | SSW | 3 | b | 41 | 95 | 8 | 8 | - | - | 1 | 1 | 2500 | 1 | * |
| | Donaghadee | 1020.3 | . | W'S | 1 | bc | 43 | 85 | 7 | 5 | - | - | 2.3 | 2.3 | 2500 | 0 | 0 |
| 19 | Birr Castle | 1024.8 | +1.2 | WNW | 1 | bc | 39 | 95 | 8 | - | 3 | - | 0 | 2-3 | - | 1 | * |
| 20 | Valentia Obsy. | 1027.9 | +1.8 | W'N | 3 | bc/pr | 48 | 85 | 8 | 8 | - | - | 4.6 | 4.6 | 2500 | 1 | 3 |
| | Roches Point | 1026.7 | +1.4 | NW | 3 | bc | 48 | 85 | 8 | 3 | - | - | 4.6 | 4.6 | 1500 | 1 | 3 |

### PAST 24 HOURS. — WEATHER.

| Stations. | 7h.–13h. 8h. (37) | 13h.–18h. 8h. (38) | 18h. 8h. to 1h. 9h. (39) | 1h.–7h. 9h. (40) |
|---|---|---|---|---|
| London (Kew) | o d d o m. | c m. b c m | b c f e | b c f e c m. |
| Croydon | c 6 d. d. m. | c b c m. | b m. o w | b m. o w |
| S. Farnborough | r r i d. | c c m. b c | b c w b x | b x b c x |
| Winchester | c d. d. m. | o c m. | c m. b r | c p r. |
| Roscombe Down | c r. d. | c c m. | c p m. | b b c c w |
| Calshot, S'thmtn | c d. d. r. | o r d. c | b w | b w |
| Dungeness | r | r | * | b c |
| Lympne | c r. o d. | o f c r. | c b f f e | b f c b |
| Shoeburyness | o m. | c m. c p. p. m | b m. b c m. | b c c p r b r. |
| Felixstowe | c 3. | c m. | c m. b c b w | b c |
| Gorleston | c | c m. | o b m. | b m. x |
| Cranwell | d. b m. | c 3. b | b m. o w | b m. w c |
| Birmingham | r. b c | c b c c | b b c | b c c |
| Upper Heyford | o b c m. | c m. w | c m. b w | b w c |
| Leafield | c b c | c | c b c | c |
| Ross-on-Wye | c p. b b c | b c c | c r. b c c b c | b c c |
| Portland Bill | c p r R R m | R R c | b c | b c |
| Plymouth | o d d c | c p r m. | b c m. p r. | b c m. p r. |
| Falmouth | o r. m. b c | b c | b c f. | b c p. |
| Scilly (St. Mary's) | d m c b c | b c | b b c p | b c |
| Guernsey | c o r r | o r r b c | c p r o c | b c |
| Pembroke | b c c | b c q | b c q | b c |
| Holyhead | b c | c p r. | b c b | o c |
| Chester (Sealand) | b c c | b c p r. | p r. b c | b c p r. |
| L'pool (Bidston) | b b c c | c b c R R | c | c b |
| Harrogate | b b c c | b c c | c b | b b c c |
| Spurn Head | b c | c 3 c | c 3 b c | b c c w |
| Catterick | b b c c | c b | b w x c | c b c c |
| Tynemouth | b c c | c b c | b c b | b b c |
| Inchkeith | b c | b c | b c | b c b |
| Leuchars | b c p. b m. | b m. o | b | b |
| Renfrew | c p r. o p r | b c c p r | c p r. c | c p r. c |
| Eskdalemuir | c p r b c | b c b | b b c | c |
| Tiree | b c | c p r q | b c p r q | i r |
| Stornoway | b c c | c P R | c p r h q | c p r q |
| Dalwhinnie | c | r r | | r |
| Aberdeen | b c | b | b | b c c r. |
| Wick | b c | b c p r. | b c p r l | b c p h r |
| Lerwick | b c c i R | c i r | c p r | c p r |
| Blacksod Point | p h r q | p h r q | p r c | c |
| Malin Head | b c c p r. | c b c p r | b b c p r c | c p r. |
| Aldergrove | b c b | c p b | b - c | c |
| Donaghadee | b c | b c b | b | b b c |
| Birr Castle | r. o c p r | c p r b c | b c | b c x c p r |
| Valentia Obsy. | b c p r c p h r | b c c p r b c | b c b | b w |
| Roches Point | b c c p c | c b c | b c p b | b b c |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
f., thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s., slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s./k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense: suffix o indicates slight; repetition of letters indicates continuity: thus. R, heavy rain. $r_o$, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ◐, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; −, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than 1/10 of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

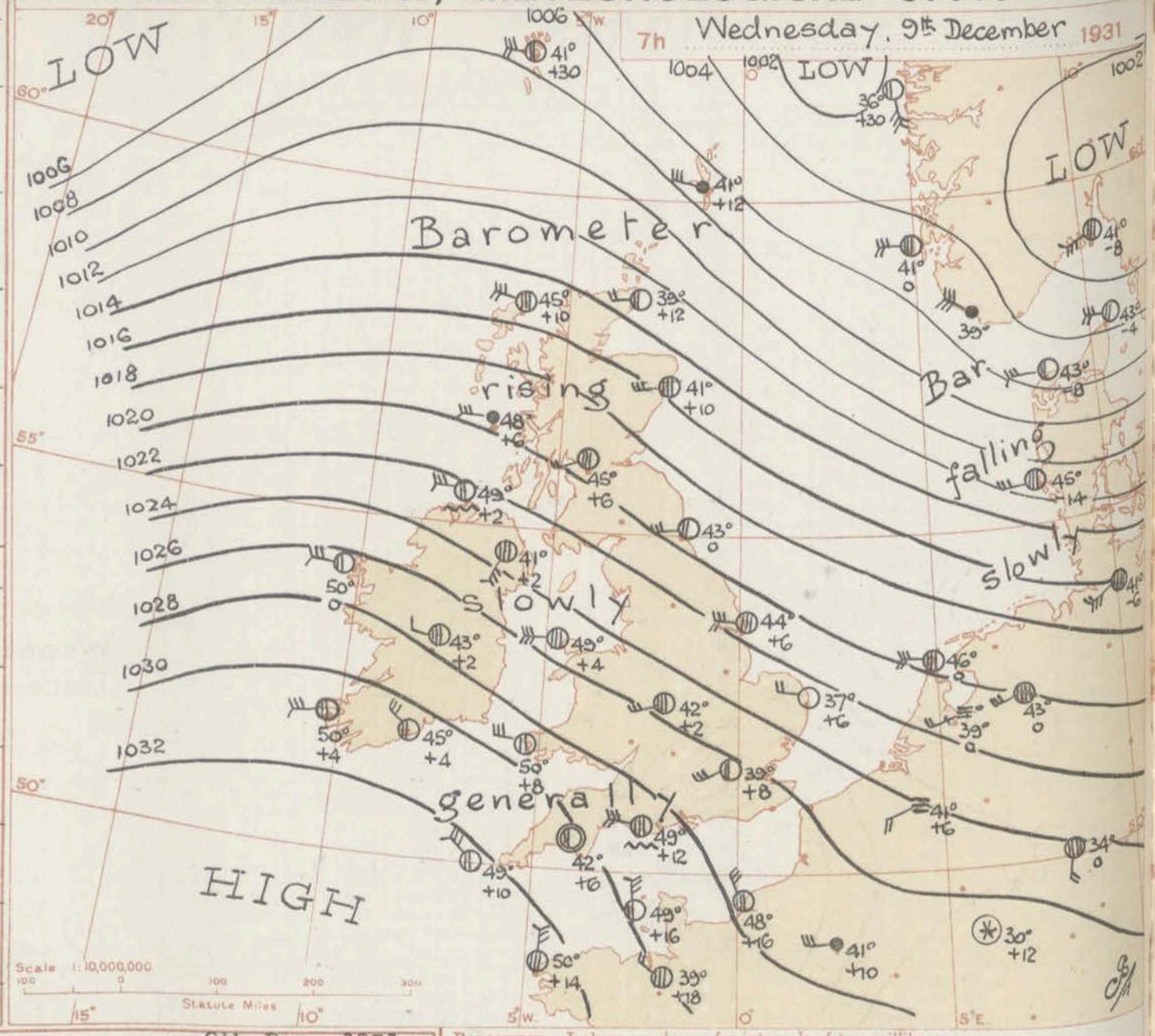
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

# AIR MINISTRY, METEOROLOGICAL OFFICE.

## REPORTS from HEALTH RESORTS for 8th December 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 7th to 8th 9h. | Temperature. Max. 9h.—17h. 8th | Rainfall. Night. 17h. 7th to 8th 9h. | Rainfall. Day. 9h.—17h. 8th | Sunshine. Sunrise to Sunset. 8th |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | o | odm | 29 | 47 | – | 2 | 0.0 |
| | Bournemouth | oro | orc | 38 | 49 | 1 | 3 | 0.0 |
| | Ventnor ... | ourf | orouf | 41 | 49 | 0.3 | 5 | 0.0 |
| | Southsea ... | or | orom | 36 | 50 | Trace | 1 | 0.0 |
| | Bognor Regis | ccir | rrr | 46 | 50 | Trace | 3 | 0.0 |
| | Littlehampton | ccdcr | crc | 30 | 49 | – | 3 | 0.0 |
| | Worthing ... | oror | rr | 33 | 50 | 0.3 | 3 | 0.0 |
| | Brighton ... | orc | ro | 35 | 50 | 0.3 | 2 | 0.0 |
| | Eastbourne† | orr | rr | 34 | 50 | 0.1 | 8 | 0.0 |
| | Hastings† ... | coo | orrf | 36 | 50 | 0.2 | 5 | 0.0 |
| | Folkestone ... | xoido | or | 34 | 48 | – | 6 | 0.0 |
| | Dover... ... | moroc | cor | 36 | 49 | – | 3 | 0.0 |
| | Deal ... ... | coo | or | 36 | 49 | – | 1 | 0.0 |
| | Ramsgate ... | o | oro | 37 | 47 | – | 2 | 0.0 |
| | Margate ... | c | cr | 36 | 48 | Trace | 0.5 | 0.0 |
| 2 | Southend ... | om | oem | 37 | 46 | 0.3 | – | 0.0 |
| | Maldon ... | roc | com | 34 | 47 | 0.3 | – | 0.0 |
| | Clacton-on-Sea | cpcm | cm | 36 | 47 | Trace | – | 0.0 |
| | Dovercourt ... | doc | oc | 35 | 47 | Trace | – | 0.0 |
| | Lowestoft ... | c | cdbc | 34 | 44 | Trace | – | 0.0 |
| | Skegness ... | bcmo | bcmo | 35 | 49 | Trace | – | 3.7 |
| | Mablethorpe | bbc | bccmo | 38 | 48 | – | – | 3.4 |
| | Cleethorpes ... | bmbc | c | 38 | 48 | – | – | 3.0 |
| 3 | Leamington S. | bc | bcco | 37 | 49 | 0.2 | – | 3.5 |
| 4 | Cheltenham† | omcbc | bcgcm | 38 | 49 | 0.5 | – | 1.7 |
| 5 | Bath ... ... | cbc | bcc | 34 | 50 | 1 | – | 0.5 |
| | Weymouth ... | ccro | rocb | 34 | 51 | 0.4 | 1 | 0.1 |
| | Jersey ... | cr | cr | 36 | 49 | – | 3 | 0.1 |
| | Torquay ... | borge | copbmo | 33 | 51 | 2 | 0.2 | 2.0 |
| | Penzance ... | rocb | pbr | 39 | 53 | 6 | 0.2 | 3.3 |
| | St. Ives ... | o | b | 40 | 50 | 3 | – | 2.6 |
| | Bude ... ... | pbc | ipbc | 35 | 51 | 1 | 1 | 3.6 |
| | Ilfracombe ... | oc | bcP | 43 | 52 | 6 | 2 | 1.7 |
| 6 | Aberystwyth | cprbc | cproc | 45 | 51 | 3 | 0.3 | 2.7 |
| 7 | Llandudno ... | bcc | c | 45 | 50 | 2 | – | 0.7 |
| | Colwyn Bay... | bebec | ccbc | 44 | 50 | 1 | – | 0.9 |
| | Rhyl ... ... | bbcc | cbc | 41 | 50 | 0.3 | – | 1.1 |
| 8 | Wallasey ... | bbc | bccp | 43 | 49 | 0.5 | 2 | 1.5 |
| | Southport‖ ... | cbc | corcb | 46 | 49 | 1 | Trace | 0.2 |
| | Blackpool ... | orc | cbc | 46 | 49 | 2 | – | 0.2 |
| | Morecambe ... | rpcbbc | cdcdc | 44 | 49 | 3 | 0.5 | 0.4 |
| 9 | Ilkley... ... | bcc | cbc | 39 | 48 | 1 | – | 0.4 |
| 10 | Berwick-on-T. | bbc | bcb | 40 | 47 | Trace | – | 5.6 |
| 11 | Dunbar ... | ~~ber~~bc | bc | 41 | 46 | 1 | – | 3.3 |
| 12 | Douglas ... | cb | cb | 43 | 48 | 5 | – | 1.3 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm, ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
Clear sky. Sky less than 1/10 clouded. Sky 1/10 to 5/10 clouded. Sky 6/10 to 9/10 clouded. Overcast sky.
Rain falling. Snow. Hail. Fog. Mist. Thunder. Thunderstorm.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 9th Dec. 1931. |
|---|---|
| 1. S.E. England<br>2. E. England<br>3. E. Midlands | Moderate westerly winds slowly backing and freshening; mainly fair to-day, deteriorating probably with some rain tomorrow; rather mild. |
| 4. W. Midlands<br>5. S.W. England<br>6. South Wales<br>7. North Wales<br>8. N.W. England<br>9. N. Midlands | Fresh westerly winds backing to strong southwesterly, or southerly; mainly fair at first, deteriorating, rain later; rather mild to mild. |
| 10. N.E. England<br>11. S.E. Scotland | As 1 - 3. |
| 12. S.W. Scotland & Isle of Man<br>13. A. W Scotld. B. N.W. Scotland.<br>14. Mid-Scotland<br>15. N.E. Scotland<br>16. Orkneys and Shetlands. | Fresh westerly winds backing to strong southwesterly or southerly, stronger at times later; mainly fair at first, deteriorating with rain later; rather mild to mild. |
| 17. N.W. Ireland<br>18. N.E. Ireland<br>19. S.E. Ireland | Fresh westerly winds, backing and freshening; mainly fair at first, deteriorating with rain later; rather mild to mild. |
| 20. S.W. Ireland | As 12 - 18. |

### GENERAL INFERENCE.

A complex and vigorous depression extending from Iceland to the Azores will move northeastward. After a brief interval of mainly fair weather over the British Isles at first, unsettled conditions are likely to be renewed in the West and to spread slowly eastward or northeastward.

### FURTHER OUTLOOK.

Unsettled.

Forecasts issued at 0915 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2. Pa. 5011/23M. Wt. 73. D.2001. Ba.909. 282/0. 12/31

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊘ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 9th December 1931.

No. 25584.

### OBSERVATIONS at 1 hr. G.M.T. 9th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind. Direc. (3) | Wind. Force 0-12 (4) | Weather (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud. Form. Low (9) | Cloud. Form. Med. (10) | Cloud. Form. High (11) | Cloud. Amount. Low 0-10 (12) | Cloud. Amount. Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | - | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1024.7 | +4 | W'S | 2 | b | 40 | 95 | 6 | - | - | - | 0 | 0 | - |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot (S'thmtn) | 8 | 1026.1 | +10 | W'N | 3 | b | 40 | 95 | 8 | - | - | - | 0 | 0 | - |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1024.3 | +4 | NNW | 3 | bf | 38 | 95 | 3 | - | - | - | 0 | 0 | - |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1021.8 | +4 | NW | 2 | b | 40 | 95 | 6 | - | - | - | 0 | 0 | - |
| | Cranwell | 240 | 1023.2 | +4 | W | 4 | b | 39 | 95 | 6 | - | - | - | 0 | 0 | - |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1026.7 | +18 | NW'W | 4 | bc | 48 | 75 | 8 | 4 | - | - | 2.3 | 2.3 | 2500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1029.6 | +6 | NW'W | 3 | pr | 48 | 85 | 8 | 8 | - | - | 7.8 | 7.8 | 4000 |
| | Scilly (St. Mary's) | 169 | 1031.0 | +16 | NW'N | 5 | bc\|p | 49 | 85 | 8 | 3 | - | - | 4.6 | 4.6 | 4000 |
| | Guernsey | 175 | 1027.8 | +10 | NNW | 4 | bc | 49 | 85 | 8 | 8 | - | - | 4.6 | 4.6 | 2500 |
| 6 | Pembroke | 142 | 1027.1 | +18 | W'S | 4 | q | 49 | 95 | 7 | 5 | 6 | - | 2.3 | 2.3 | 2500 |
| 7 | Holyhead | 26 | 1024.9 | +16 | WNW | 6 | bc | 47 | 85 | 7 | 5 | - | - | 2.3 | 2.3 | 4000 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1020.8 | +2 | W'N | 4 | bc | 43 | 95 | 6 | - | 1 | - | 0 | 2.3 | - |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1018.3 | 0 | W | 3 | b | 42 | 85 | 6 | - | - | - | 0 | 0 | - |
| 11 | Inchkeith | 190 | 1016.9 | +4 | WSW | 4 | bc | 43 | 85 | 8 | 5 | - | - | 2.3 | 2.3 | 2500 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1013.4 | +12 | WNW | 3 | c | 41 | 95 | 7 | 9 | - | - | 9 | 9 | 1500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1010.1 | +6 | WSW | 3 | bc | 38 | 95 | 8 | 3 | 1 | - | 2.3 | 4.6 | 1600 |
| 16 | Lerwick | 54 | 1004.3 | +10 | W | 3 | c\|pr | 42 | 75 | 7 | 8 | 2 | - | 4.6 | 7.8 | 1500 |
| 17 | Blacksod Point | 18 | 1025.9 | +6 | W | 2 | bc | 48 | 95 | 7 | 3 | - | - | 4.6 | 4.6 | 800 |
| 18 | Malin Head | 52 | 1021.5 | +12 | W'N | 6 | pr | 48 | 85 | 7 | 9 | 1 | - | 4.6 | 10 | 1500 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1029.8 | +6 | W | 5 | b | 50 | 85 | 7 | - | - | - | 0 | 0 | - |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 9th December

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind. Direc. (17) | Wind. Force 0-12 (18) | Weather (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud. Form. Low (23) | Cloud. Form. Med. (24) | Cloud. Form. High (25) | Cloud. Amount. Low 0-10 (26) | Cloud. Amount. Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1026.8 | +8 | SW | 2 | c | 38 | 95 | 6 | - | 3 | 1 | 0 | 9 | - | 1 | * |
| | Croydon | 1026.8 | +8 | W'S | 3 | bc | 39 | 95 | 6 | - | 9 | - | 0 | 4-6 | - | 1 | * |
| | S. Farnborough | 1027.0 | +8 | W'S | 1 | bc | 38 | 95 | 6 | - | 7 | - | 0 | 4-6 | - | 1 | * |
| | Winchester | 1027.8 | +6 | WNW | 3 | c\|pr | 40 | 95 | 7 | 5 | - | 6 | 7-8 | 9 | 5700 | 1 | * |
| | Boscombe Down | 1027.9 | +10 | WNW | 3 | c | 40 | 95 | 6 | - | 7 | - | 0 | 7-8 | - | 1 | * |
| | Calshot (S'thmtn) | 1027.8 | +10 | WNW | 2 | c | 40 | 95 | 7 | 5 | * | - | 9 | 9 | 4000 | 1 | 1 |
| | Dungeness | * | * | WNW | 2 | bc | 36 | * | 7 | 1 | 3 | * | 2-3 | 2-3 | 2500 | * | 0 |
| | Lympne | 1026.5 | +14 | WNW | 3 | m | 38 | 95 | 4 | - | 5 | - | 0 | Tr | - | 1 | * |
| 2 | Shoeburyness | 1025.4 | +6 | W'S | 2 | bc | 38 | 95 | 6 | - | 3 | 5 | 0 | 2.3 | - | 1 | * |
| | Felixstowe | 1024.9 | +6 | WNW | 3 | bc | 40 | 95 | 7 | - | - | 1 | 0 | 2.3 | - | 0 | 2 |
| | Gorleston | 1022.6 | +6 | NW'W | 2 | b | 37 | 95 | 6 | - | - | - | 0 | 0 | - | 0 | 2 |
| | Cranwell | 1023.6 | +4 | W'S | 5 | c | 41 | 85 | 6 | - | 3 | 2 | 0 | 7-8 | - | 1 | * |
| 3 | Birmingham | 1026.1 | +2 | W | 3 | c | 42 | 85 | 8 | - | 3 | 8 | 0 | 9+ | - | 1 | * |
| | Upper Heyford | 1027.0 | +10 | W | 2 | c | 40 | 85 | 7 | 5 | 1 | - | 4-6 | 7-8 | 4000 | 1 | * |
| | Leafield | 1026.6 | +10 | WSW | 3 | c | 39 | 85 | 8 | - | 7 | - | 0 | 9+ | - | 1 | * |
| 4 | Ross-on-Wye | 1027.0 | +4 | W'S | 2 | c | 44 | 85 | 8 | - | 1 | 7 | 0 | 9+ | - | 1 | * |
| 5 | Portland Bill | 1028.6 | +12 | WNW | 5 | c | 49 | 75 | 8 | 4 | 7 | - | 7-8 | 10 | 2500 | 1 | 4 |
| | Plymouth | 1030.7 | +6 | - | 0 | bc | 42 | 95 | 6 | 5 | - | - | 4-6 | 4-6 | 1500 | 1 | 0 |
| | Falmouth | 1031.4 | +6 | WNW | 2 | bc | 46 | 85 | 8 | 8 | - | - | 4-6 | 4-6 | 4000 | 1 | 2 |
| | Scilly (St. Mary's) | 1032.6 | +10 | NW'N | 4 | bc | 49 | 85 | 7 | 1 | 7 | - | 2-3 | 2-3 | 4000 | 1 | 3 |
| | Guernsey | 1029.8 | +16 | N | 4 | bc | 49 | 75 | 7 | 8 | - | - | 4-6 | 4-6 | 2500 | 1 | 3 |
| 6 | Pembroke | 1029.4 | +8 | WNW | 3 | bc | 50 | 95 | 7 | 3 | 7 | - | 1 | 4-6 | 4000 | 0 | 2 |
| 7 | Holyhead | 1025.8 | +4 | W'N | 6 | c | 49 | 85 | 7 | 5 | - | - | 7-8 | 7-8 | 4000 | 1 | 3 |
| | Chester (Sealand) | 1025.3 | +10 | W | 4 | bc | 46 | 75 | 7 | 5 | - | - | 4-6 | 4-6 | 2500 | 1 | * |
| 8 | L'pool (Bidston) | 1024.6 | 0 | W'N | 6 | bc | 46 | 85 | 8 | 5 | - | - | 2-3 | 2-3 | 4000 | 0 | * |
| 9 | Harrogate | 1022.5 | +16 | WSW | 2 | c | 44 | 85 | 7 | 5 | - | - | 9 | 9 | 2500 | 1 | * |
| 10 | Spurn Head | 1020.9 | 0 | WNW | 5 | c | 44 | 95 | 7 | 5 | 7 | 9 | 2-3 | 7-8 | 5700 | 1 | 3 |
| | Catterick | 1021.6 | +4 | WNW | 3 | c | 44 | 75 | 8 | 5 | 3 | - | 9 | 9+ | 1500 | 1 | * |
| | Tynemouth | 1019.2 | 0 | W | 3 | bc | 43 | 85 | 7 | 2 | - | - | 2-3 | 2-3 | 2500 | 0 | 2 |
| 11 | Inchkeith | 1018.0 | +10 | SW | 4 | bc | 44 | 85 | 8 | 5 | 5 | - | Tr | 2-3 | 4000 | 0 | 2 |
| | Leuchars | 1017.3 | +12 | W | 4 | b | 41 | 75 | 8 | 4 | - | 8 | Tr | 1 | 4000 | 1 | * |
| 12 | Renfrew | 1019.8 | +6 | WSW | 2 | c | 45 | 85 | 7 | 8 | - | - | 9+ | 9+ | 1500 | 1 | * |
| | Eskdalemuir | 1020.6 | +8 | W | 3 | c | 43 | 75 | 8 | 7 | - | - | 7-8 | 7-8 | 1500 | 1 | * |
| 13A | Tiree | 1019.9 | +6 | W | 4 | ir | 48 | 85 | 6 | 6 | 7 | - | 4-6 | 9+ | 1500 | 1 | 2 |
| 13B | Stornoway | 1016.2 | +10 | WNW | 5 | c\|pr | 45 | 95 | 7 | 9 | - | - | 7-8 | 7-8 | 1500 | 1 | 3 |
| 15 | Dalwhinnie | 1018.8 | +12 | NW | 2 | r | 41 | 75 | 6 | 4 | 4 | - | 4-6 | 7-8 | 800 | 1 | * |
| | Aberdeen | 1015.5 | +10 | W | 3 | c\|r | 41 | 85 | 7 | 5 | 7 | - | 4-6 | 7-8 | 1500 | 1 | 1 |
| | Wick | 1017.4 | +12 | W | 2 | c\|pr | 39 | 95 | 8 | 3 | 1 | - | 2-3 | 4-6 | 1500 | 1 | 2 |
| 16 | Lerwick | 1006.0 | +12 | W'N | 3 | c\|pr | 41 | 85 | 7 | 8 | - | - | 7-8 | 7-8 | 1500 | 2 | * |
| 17 | Blacksod Point | 1026.1 | 0 | W | 4 | bc | 50 | 95 | 7 | - | 4 | - | 0 | 4-6 | - | 0 | 3 |
| 18 | Malin Head | 1022.4 | +2 | W'N | 4 | b\|p | 49 | 95 | 7 | 8 | - | - | 2-3 | 2-3 | 1500 | 1 | 4 |
| | Aldergrove | 1024.4 | +2 | SSW | 4 | c | 41 | 95 | 7 | 5 | 7 | - | 4-6 | 9 | 2500 | 1 | * |
| | Donaghadee | 1023.5 | +2 | W | 2 | bc | 42 | 95 | 7 | 5 | - | - | 4-6 | 4-6 | 2500 | 0 | 1 |
| 19 | Birr Castle | 1027.5 | +2 | WNW | 1 | c\|pr | 43 | 95 | 8 | 3 | - | - | 7-8 | 7-8 | 1500 | 1 | * |
| 20 | Valentia Obsy.† | 1031.3 | +4 | WSW | 4 | bc | 50 | 95 | 8 | 8 | - | - | 2-3 | 2-3 | 2500 | 1 | - |
| | Roches Point | 1030.9 | +4 | NW | 3 | bc | 45 | 95 | 8 | 5 | - | - | 2-3 | 2-3 | 1500 | 1 | 3 |

### PAST 24 HOURS.

| District | Stations | Temperatures. Max. Day 7h-18h °F. (31) | Min. Night 18h-7h °F (32) | Min. on Grass °F. (33) | Rainfall. Day 7h-18h mm. (34) | Rainfall. Night 18h-7h mm. (35) | Sunshine 8th Hrs. (36) |
|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 48 | 37 | 31 | 0.6 | Tr | 0.0 |
| | Croydon | 48 | 38 | 33 | 0.2 | Tr | 0.0 |
| | S. Farnborough | 49 | 34 | 21 | 0.1 | 0.1 | 0.0 |
| | Winchester | 48 | 35 | 32 | 0.4 | 0.1 | 0.0 |
| | Boscombe Down | 49 | 37 | 33 | 0.1 | Tr | * |
| | Calshot (S'thmtn) | 50 | 39 | 33 | 2 | 0.2 | 0.0 |
| | Dungeness | 50 | 35 | * | 12 | 1 | * |
| | Lympne | 46 | 35 | 31 | 5 | 0.3 | 0.0 |
| 2 | Shoeburyness | 48 | 37 | 34 | Tr | Tr | 0.0 |
| | Felixstowe | 47 | 38 | 32 | 0.2 | - | 0.0 |
| | Gorleston | 46 | 36 | 32 | - | 0.1 | 1.6 |
| | Cranwell | 49 | 38 | 35 | Tr | - | 3.8 |
| 3 | Birmingham | 49 | 40 | 36 | 0.1 | - | 4.2 |
| | Upper Heyford | 48 | 39 | 30 | 0.1 | - | * |
| | Leafield | 48 | 37 | 29 | - | - | 0.5 |
| 4 | Ross-on-Wye | 52 | 41 | 34 | 0.2 | 0.1 | 4.5 |
| 5 | Portland Bill | 51 | 47 | * | 3 | - | * |
| | Plymouth | 51 | 42 | 37 | 5 | Tr | 1.8 |
| | Falmouth | 52 | 46 | * | 2 | 0.1 | 3.3 |
| | Scilly (St. Mary's) | 52 | 48 | * | 1 | 0.2 | 4.3 |
| | Guernsey | 49 | 48 | 41 | 10 | 1 | 0.0 |
| 6 | Pembroke | 52 | 49 | * | 0.1 | - | 2.2 |
| 7 | Holyhead | 50 | 47 | 43 | Tr | - | 0.1 |
| | Chester (Sealand) | 52 | 45 | 40 | 0.1 | Tr | 2.7 |
| 8 | L'pool (Bidston) | 48 | 45 | 42 | 0.1 | - | 1.5 |
| 9 | Harrogate | 47 | 41 | 36 | - | - | 1.0 |
| 10 | Spurn Head | 48 | 41 | * | - | Tr | 2.9 |
| | Catterick | 49 | 34 | 27 | - | Tr | * |
| | Tynemouth | 48 | 41 | 35 | - | - | * |
| 11 | Inchkeith | 46 | 42 | 40 | - | - | 3.1 |
| | Leuchars | 46 | 36 | 31 | 0.2 | - | 4.9 |
| 12 | Renfrew | 46 | 40 | 36 | 2 | 1 | 1.2 |
| | Eskdalemuir | 43 | 39 | 36 | Tr | - | 2.5 |
| 13A | Tiree | 49 | 44 | 40 | 0.2 | 1 | 3.5 |
| 13B | Stornoway | 47 | 40 | * | 2 | 4 | 1.2 |
| 15 | Dalwhinnie | 41 | 36 | 34 | 8 | 4 | 1.2 |
| | Aberdeen | 47 | 38 | 29 | - | 0.3 | 5.0 |
| | Wick | 43 | 37 | * | 0.1 | 3 | * |
| 16 | Lerwick | 47 | 40 | * | 1 | 4 | 0.0 |
| 17 | Blacksod Point | 51 | 45 | * | 3 | 0.3 | * |
| 18 | Malin Head | 48 | 46 | * | 3 | 1 | 1.7 |
| | Aldergrove | 45 | 38 | 31 | 0.5 | - | 1.8 |
| | Donaghadee | 47 | 39 | * | - | - | * |
| 19 | Birr Castle | 47 | 37 | 26 | 1 | 0.8 | 1.1 |
| 20 | Valentia Obsy.† | 51 | 47 | 42 | 3 | Tr | 3.3 |
| | Roches Point | 50 | 49 | * | 3 | 1 | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon (24 hrs. ended 9h.) | Weather Night (24 hrs. ended 9h.) | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. Yesterday | Humidity 15h G.M.T. % Yesterday | Humidity 9h G.M.T. % To-day | Visibility 9h. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KEW | 18 | oddom | cmbcm | bcfecm | 48 | 37 | 31 | 0.6 | Tr | 0.0 | * | * | 5 |
| CROYDON | 217 | crddm | cbcm | bmw | 48 | 38 | 33 | 0.2 | Tr | 0.0 | * | * | 5 |
| GREENWICH (Royal Observatory) | 149 | oid | oidcf | cfbrcm | 48 | 37 | 28 | 0.3 | Tr | 0.0 | 91 | 89 | 4 |
| CITY (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| WESTMINSTER (St. James' Park) | 27 | * | * | * | 48 | 37 | 30 | 0.5 | | 0.0 | 89 | 89 | * |
| REGENTS PK. (Botanic Gardens) | 108 | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| CAMDEN SQUARE | 110 | oro | oc | * | 47 | 38 | 31 | 0.5 | - | * | * | 94 | * |
| KENSINGTON | 80 | odr | odro | * | 48 | 38 | 31 | 0.6 | 0.1 | 0.0 | At 18h. 98 | 91 | * |
| HAMPSTEAD OBSERVATORY | 450 | odr | bcm | * | 46 | 34 | 29 | 0.5 | 0.3 | 0.0 | * | 97 | * |

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 9th

| SOUTH KENSINGTON. Max. | Time. | Min. | Time. | KEW OBSERVATORY. Max. | Time. | Min. | Time. |
|---|---|---|---|---|---|---|---|
| 1.3 | 18h 8th | <0.3 | 3-6h 9th | 0.8 | 18h 8th | 0.1 | 3h 9th |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 8th December. Barom. mb. | Wind. Direc. | Wind. Force. | Weather. | Temp. °F. | 7h. G.M.T. 9th December. Barom. mb. | Wind. Direc. | Wind. Force. | Weather. | Temp. °F. | Past 24 Hours. Max. Day °F. | Min. Night °F. | Rainfall. Day, mm. | Rainfall. Night, mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARIS | 1027.7 | - | 0 | f | 36 | 1027.5 | W | 3 | df | 41 | 43 | 34 | - | 0.6 |
| BRUSSELS | 1024.4 | W'S | 3 | rr | 39 | 1023.8 | W | 2 | f | 41 | 43 | 37 | 2 | 3 |
| BERLIN | 1020.6 | SW | 4 | o | 41 | 1017.0 | SW | 3 | o | 41 | 43 | 39 | - | 0.2 |
| ZURICH | 1027.6 | N | 1 | o | 39 | 1027.6 | NE | 1 | c | 34 | 45 | 34 | - | - |
| ROME | 1021.9 | NW | 1 | b | 55 | 1019.0 | NNE | 3 | c | 45 | 64 | 45 | - | - |

## EXPLANATION OF FIGURES & LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13-18 | 9 | 47-54 |
| 1 | 1-3 | 5 | 19-24 | 10 | 55-63 |
| 2 | 4-7 | 6 | 25-31 | 11 | 64-75 |
| 3 | 8-12 | 7 | 32-38 | 12 | 75 |
| | | 8 | 39-46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | Objects not visible at |
|---|---|
| 0 Dense fog | 55 yards. |
| 1 Thick fog | 220 " |
| 2 Fog | 550 " |
| 3 Moderate fog | 1,100 " |
| 4 Mist or haze | 1¼ miles. |
| 5 Poor visibility | 2½ " |
| 6 Moderate " | 6½ " |
| 7 Good " | 12½ " |
| 8 Very good " | 31 " |
| 9 Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | |
|---|---|
| 0 Calm. | 5 Very rough. |
| 1 Smooth. | 6 High. |
| 2 Slight. | 7 Very high. |
| 3 Moderate. | 8 Precipitous. |
| 4 Rough. | 9 Confused. |

TERMS OF SUBSCRIPTION. Single Copies, 1d. each; by post 1½d. 2/8 per month; 8/6 per quarter; 26/- per year.

METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 10th December 1931.

No. 25585

### OBSERVATIONS at 13h. G.M.T. 9th December

| District | Stations. (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0-12 (4) | Weather. (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud. Form. Low. (9) | Cloud. Form. Med. (10) | Cloud. Form. High (11) | Cloud. Amount. Low 0-10 (12) | Cloud. Amount. Total 0-10 (13) | Height of Base. (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1027.0 | -6 | W'N | 4 | c | 48 | 75 | 6 | - | 3 | - | 0 | 7·8 | - |
| | Croydon | 1027.2 | -4 | W'N | 4 | c | 48 | 75 | 6 | 1 | 5 | - | Tr | 7·8 | 2500 |
| | S. Farnborough | 1027.6 | -6 | W'N | 3 | c | 50 | 75 | 7 | - | 3 | 5 | 0 | 7·8 | - |
| | Winchester | 1028.4 | -6 | WNW | 4 | c | 50 | 75 | 7 | - | 7 | 1 | 0 | 7·8 | - |
| | Boscombe Down | 1028.5 | -4 | WNW | 4 | c | 48 | 85 | 7 | - | 3 | - | 0 | 9 | - |
| | Calshot, S'thmtn | 1028.4 | -6 | WNW | 4 | c | 49 | 75 | 7 | - | 3 | 2 | 0 | 7·8 | - |
| | Dungeness | * | * | NW'W | 3 | c | * | * | 7 | 5 | 8 | - | 2·3 | 7·8 | 2500 |
| | Lympne | 1026.5 | -6 | NWW | 3 | c | 45 | 85 | 6 | - | 3 | - | 0 | 7·8 | - |
| 2 | Shoeburyness | 1025.9 | 0 | WNW | 3 | c | 47 | 85 | 6 | - | 7 | - | 0 | 7·8 | - |
| | Felixstowe | 1024.5 | -6 | NW'W | 4 | bc | 47 | 85 | 7 | 5 | - | 8 | 1 | 4-6 | 5700 |
| | Gorleston | 1022.6 | -2 | NW'W | 3 | c | 46 | 85 | 6 | 5 | 4 | 1 | 2·3 | 7·8 | 2500 |
| | Cranwell | 1023.7 | -4 | W'N | 4 | c | 45 | 85 | 6 | 7 | 3 | - | 7·8 | 9 | 2500 |
| 3 | Birmingham | 1026.0 | 0 | WNW | 4 | c | 47 | 75 | 7 | 6 | 5 | - | 4·6 | 9 | 1500 |
| | Upper Heyford | 1027.2 | -10 | W | 3 | c | 47 | 75 | 8 | 5 | 3 | 8 | 2·3 | 9 | 4000 |
| | Leafield | 1026.6 | 0 | WNW | 4 | c | 47 | 75 | 8 | 5 | 2 | - | 7·8 | 7·8 | 5700 |
| 4 | Ross-on-Wye | 1027.2 | -4 | W | 3 | c | 50 | 75 | 8 | 8 | 7 | - | 4·6 | 9+ | 2500 |
| 5 | Portland Bill | 1029.1 | -14 | WNW | 5 | c | 51 | 75 | 8 | 2 | 6 | - | 4·6 | 7·8 | 2500 |
| | Plymouth | 1031.2 | -2 | WNW | 4 | bc | 52 | 75 | 8 | 3 | 4 | 3 | 2·3 | 4-6 | 2500 |
| | Falmouth | 1032.1 | 0 | NW'W | 3 | c/pr | 51 | 95 | 8 | 8 | - | - | 7·8 | 7·8 | 4000 |
| | Scilly (St. Mary's) | 1033.2 | 0 | NW'W | 5 | c/jp | 53 | 85 | 7 | 9 | 1 | - | 7·8 | 9 | 2500 |
| | Guernsey | 1030.8 | 0 | NNW | 5 | bc | 52 | 75 | 8 | 7 | 3 | - | 4·6 | 4·6 | 2500 |
| 6 | Pembroke | 1030.3 | +2 | WNW | 3 | bc | 52 | 95 | 7 | 1 | 6 | - | 2·3 | 4-6 | 2500 |
| 7 | Holyhead | 1026.4 | -2 | WNW | 6 | c | 50 | 85 | 8 | 5 | 3 | 2 | 1 | 9+ | 4000 |
| | Chester (Sealand) | 1026.2 | -2 | W'N | 4 | c | 50 | 75 | 7 | 5 | 3 | - | 7·8 | 9+ | 1500 |
| 8 | L'pool (Bidston) | 1024.9 | -4 | W'N | 6 | q | 48 | 85 | 7 | 5 | 1 | - | 7·8 | 10 | 1500 |
| 9 | Harrogate | 1022.3 ~~1024.4~~ | 0 | W | 4 | c | 47 | 85 | 8 | 6 | 7 | - | Tr | 9+ | 2500 |
| 10 | Spurn Head | 1021.1 | 0 | NW'W | 5 | c | 47 | 85 | 6 | 5 | 7 | 9 | 2·3 | 7·8 | 2500 |
| | Catterick | 1022.2 | -2 | WNW | 3 | c | 48 | 75 | 8 | 5 | 7 | - | 7·8 | 9+ | 1500 |
| | Tynemouth | 1020.5 | +4 | WNW | 3 | c | 48 | 75 | 7 | 5 | - | - | 7·8 | 7·8 | 1500 |
| 11 | Inchkeith | 1019.7 | +8 | WSW | 4 | c | 48 | 85 | 7 | 5 | - | 9 | 4·6 | 7·8 | 2500 |
| | Leuchars | 1018.6 | +8 | W | 2 | bc | 46 | 75 | 9 | 4 | 4 | 9 | 1 | 4-6 | 4000 |
| 12 | Renfrew | 1021.5 | +6 | SW | 3 | ir₀ | 47 | 95 | 6 | 9 | - | - | 9+ | 9+ | 800 |
| | Eskdalemuir | 1021.9 | +4 | W | 3 | c/pr | 45 | 85 | 7 | 5 | - | 9 | 7·8 | 9r | 1500 |
| 13A | Tiree | 1021.3 | +6 | W | 5 | c | 50 | 85 | 7 | 5 | 7 | 8 | 4-6 | 10 | 2500 |
| 13B | Stornoway | 1018.5 | +6 | W | 2 | ir₀ | 47 | 95 | 7 | 5 | 2 | - | 7·8 | 9r | 1500 |
| 15 | Dalwhinnie | 1022.3 | 0 | N | 1 | c | 44 | 75 | 8 | 4 | 5 | 2 | 4-6 | 9 | 1500 |
| | Aberdeen | 1017.2 | +8 | NW | 3 | bc | 47 | 65 | 8 | 5 | 4 | - | 4-6 | 4-6 | 4000 |
| | Wick | 1016.1 | +22 | NW | 3 | bc | 46 | 75 | 8 | 8 | 8 | 8 | 2·3 | 4-6 | 1500 |
| 16 | Lerwick | 1011.2 | +24 | W'N | 3 | c | 44 | 85 | 7 | 8 | 4 | 1 | 4-6 | 7·8 | 1500 |
| 17 | Blacksod Point | 1026.7 | 0 | WSW | 5 | q | 51 | 95 | 7 | - | 8 | - | 0 | 7·8 | - |
| 18 | Malin Head | 1023.8 | +2 | W | 4 | c/jp | 51 | 95 | 7 | 3 | 5 | - | 2·3 | 7·8 | 1500 |
| | Aldergrove | 1025.6 | +6 | SSW | 3 | c | 47 | 95 | 7 | 5 | 3 | - | 9 | 9+ | 1500 |
| | Donaghadee | 1024.7 | +4 | W | 2 | c | 49 | 85 | 7 | 5 | - | - | 7·8 | 7·8 | 1500 |
| 19 | Birr Castle | 1029.1 | +2 | WNW | 3 | c | 50 | 95 | 7 | 5 | - | 6 | 1 | 7·8 | 2500 |
| 20 | Valentia Obsy. | 1032.0 | -6 | SW'W | 3 | c/pr | 51 | 95 | 8 | 6 | 2 | - | 4-6 | 7·8 | 1500 |
| | Roches Point | 1031.8 | +14 | SW | 3 | bc | 51 | 85 | 8 | 5 | - | - | 2·3 | 2·3 | 1500 |

### OBSERVATIONS at 18h. G.M.T. 9th December

| District | Stations. | Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind. Direc. (17) | Wind. Force 0-12 (18) | Weather. (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud. Form. Low. (23) | Cloud. Form. Med. (24) | Cloud. Form. High. (25) | Cloud. Amount. Low. 0-10 (26) | Cloud. Amount. Total 0-10 (27) | Height of Base (feet) (28) | State of Ground. 0-9 (29) | Sea. 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1027.8 | +6 | W | 3 | c | 48 | 85 | 7 | 5 | - | - | 9+ | 9+ | 4000 | 1 | • |
| | Croydon | 1027.0 | +2 | W'N | 4 | c | 47 | 85 | 5 | 5 | - | - | 9+ | 9+ | 2500 | 1 | • |
| | S. Farnborough | 1028.1 | +6 | W'S | 2 | c | 46 | 85 | 7 | 5 | - | - | 10 | 10 | 4000 | 1 | • |
| | Winchester | 1028.5 | +6 | WNW | 4 | bc | 46 | 95 | 7 | - | 7 | - | 0 | 4-6 | - | 1 | • |
| | Boscombe Down | 1028.6 | +6 | WNW | 4 | bc | 46 | 95 | 7 | - | 3 | - | 0 | 2-3 | - | 1 | • |
| | Calshot, S'thmtn | 1028.3 | 0 | W | 3 | bc | 47 | 85 | 7 | 5 | 7 | - | 2-3 | 4-6 | 2500 | 0 | 1 |
| | Dungeness | * | * | WSW | 3 | c | * | * | 7 | 5 | 7 | * | 4-6 | 9+ | 2500 | * | 2 |
| | Lympne | 1026.6 | +6 | WNW | 3 | c | 45 | 85 | 6 | - | 3 | - | 0 | 9+ | - | 1 | * |
| 2 | Shoeburyness | 1025.5 | 0 | WNW | 5 | c | 47 | 85 | 6 | 5 | - | - | 10 | 10 | 4000 | 1 | * |
| | Felixstowe | 1024.3 | 0 | WNW | 4 | r₀r₀ | 47 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | 2 |
| | Gorleston | 1022.4 | +4 | NW'W | 3 | ir₀ | 46 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | 2 |
| | Cranwell | 1025.0 | +12 | W'N | 4 | bc | 46 | 85 | 6 | 5 | 3 | - | 2·3 | 2·3 | 2500 | 1 | * |
| 3 | Birmingham | 1027.3 | +14 | W | 3 | pr | 46 | 85 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| | Upper Heyford | 1027.7 | +12 | W'S | 3 | c | 45 | 85 | 8 | 5 | 2 | - | 4-6 | 7·8 | 2500 | 1 | * |
| | Leafield | 1027.5 | +10 | W | 5 | bc | 44 | 85 | 8 | 5 | - | - | 2·3 | 2·3 | 5700 | 1 | * |
| 4 | Ross-on-Wye | 1028.1 | +6 | W'S | 2 | c | 48 | 75 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| 5 | Portland Bill | 1029.7 | +4 | WNW | 4 | c | 51 | 85 | 8 | 4 | 6 | - | 7·8 | 9 | 2500 | 1 | 4 |
| | Plymouth | 1032.0 | +10 | WNW | 3 | c | 49 | 85 | 7 | 5 | 5 | - | 1 | 7·8 | 2500 | 1 | 1 |
| | Falmouth | 1032.2 | +4 | W | 2 | bc | 48 | 95 | 7 | 8 | - | - | 4-6 | 4-6 | 4000 | 0 | 1 |
| | Scilly (St. Mary's) | 1033.1 | +4 | NW'W | 4 | bc | 50 | 95 | 8 | 2 | 4 | - | 2·3 | 2·3 | 4000 | 1 | 3 |
| | Guernsey | 1030.4 | 0 | NNW | 4 | bc | 51 | 75 | 8 | 5 | - | - | 4-6 | 4-6 | 2500 | 0 | 3 |
| 6 | Pembroke | 1029.8 | +6 | SW'S | 4 | q | 51 | 95 | 7 | 4 | 6 | - | 7·8 | 9 | 1500 | 0 | 2 |
| 7 | Holyhead | 1027.7 | +12 | W'N | 5 | c | 51 | 85 | 8 | 5 | 7 | - | 7·8 | 9+ | 2500 | 1 | 3 |
| | Chester (Sealand) | 1026.7 | +4 | W'N | 5 | c | 50 | 85 | 8 | 5 | 2 | - | 2·3 | 7·8 | 1500 | 1 | * |
| 8 | L'pool (Bidston) | 1026.2 | +6 | WNW | 6 | q | 48 | 95 | 7 | 5 | 2 | - | 7·8 | 10 | 1500 | 0 | * |
| 9 | Harrogate | 1023.7 | +10 | W | 3 | c | 47 | 85 | 7 | - | 2 | - | 0 | 9 | - | 1 | * |
| 10 | Spurn Head | 1022.8 | +4 | NW'W | 5 | c | 47 | 85 | 7 | - | 2 | - | 0 | 9+ | - | 0 | 3 |
| | Catterick | 1023.4 | +14 | WNW | 3 | c | 49 | 75 | 8 | 5 | 7 | - | 2·3 | 10 | 2500 | 1 | * |
| | Tynemouth | 1022.6 | +14 | WNW | 2 | c | 47 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 0 | 1 |
| 11 | Inchkeith | 1021.8 | +16 | WSW | 4 | c | 47 | 95 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 0 | 2 |
| | Leuchars | 1021.0 | +18 | W | 3 | c | 45 | 85 | 7 | 4 | 5 | 9 | 1 | 7·8 | 4000 | 1 | * |
| 12 | Renfrew | 1023.8 | +22 | W | 3 | c/r | 48 | 95 | 6 | 5 | 7 | - | 4-6 | 9+ | 1500 | 1 | * |
| | Eskdalemuir | 1023.7 | +10 | WNW | 4 | c/pr | 46 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 13A | Tiree | 1022.1 | +6 | W ~~NS~~ | 4 | bc | 49 | 95 | 8 | 5 | 6 | - | 2·3 | 4-6 | 2500 | 1 | 2 |
| 13B | Stornoway | 1017.9 | -4 | SW | 3 | c | 48 | 95 | 7 | 4 | - | - | 9+ | 9+ | 1500 | 1 | 2 |
| 15 | Dalwhinnie | 1024.6 | 0 | N | 1 | bc | 43 | 85 | 6 | 4 | - | - | 2·3 | 2·3 | 2500 | 0 | * |
| | Aberdeen | 1020.1 | +18 | W | 3 | ir₀ | 46 | 75 | 7 | 6 | 7 | - | 4-6 | 9 | 4000 | 1 | 1 |
| | Wick | 1018.6 | +18 | NW | 2 | d₀d₀ | 44 | 95 | 7 | 8 | 2 | - | 7·8 | 10 | 1500 | 1 | 2 |
| 16 | Lerwick | 1015.8 | +18 | - | 0 | c | 42 | 95 | 6 | 5 | 1 | - | 4-6 | 7·8 | 800 | 1 | * |
| 17 | Blacksod Point | 1027.0 | +2 | WSW | 3 | id | 51 | 95 | 6 | 6 | - | - | 10 | 10 | 1150 | 1 | 3 |
| 18 | Malin Head | 1024.4 | +4 | W | 4 | c/d | 50 | 95 | 6 | 5 | - | - | 7·8 | 7·8 | 800 | 1 | 3 |
| | Aldergrove | 1026.7 | +10 | SW | 2 | c/pr | 46 | 95 | 8 | 8 | - | - | 9+ | 9+ | 1500 | 1 | * |
| | Donaghadee | 1026.0 | +10 | W | 1 | id₀ | 48 | 95 | 7 | 5 | - | - | 7·8 | 7·8 | 1500 | 1 | 0 |
| 19 | Birr Castle | 1029.8 | +6 | SW | 1 | c/r | 49 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| 20 | Valentia Obsy. | 1032.5 | +14 | SW'W | 4 | pr₀ | 51 | 95 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 |
| | Roches Point | 1032.0 | +12 | NW | 3 | c | 50 | 95 | 8 | 5 | - | - | 7·8 | 7·8 | 2500 | 0 | 3 |

### PAST 24 HOURS.

| District | Stations. | Weather. 7h.–13h. 9h. (37) | Weather. 13h.–18h. 9h. (38) | Weather. 18h. 9h. to 1h. 10h. (39) | Weather. 1h.–7h. 10h. (40) |
|---|---|---|---|---|---|
| 1 | London (Kew) | cbc3o | c3₀c | bc | p₀bcm₀ |
| | Croydon | cbcm₀ | c3₀m₀ | cm₀ | cm₀d₀ |
| | S. Farnborough | bcxcbc | bccw | cbcx₀ | bcx₀c |
| | Winchester | cm₀c | cbc | bcc | ccr |
| | Boscombe Down | cm₀c | cb | b·c | c |
| | Calshot, S'thmtn | cbcc | cbc | bcbw | bwcr₀ |
| | Dungeness | bc | bc | * | bc |
| | Lympne | bccm₀ | cm₀ | cprbcm₀ | bcm₀ |
| 2 | Shoeburyness | bcb | bcm₀cm₀ | cm₀cir₀ | cir₀m₀ |
| | Felixstowe | bc | ccr₀r₀ | crr₀bc | bcc |
| | Gorleston | bbcm₀ | cir₀m₀ | cir₀bc | bm₀r₀r₀ |
| | Cranwell | cm₀ | cm₀ | bcm₀b | b·cpr |
| 3 | Birmingham | bcc | c | cpr₀ | co |
| | Upper Heyford | cbcc | cbc | bccw | cw |
| | Leafield | c | cbc | bcc | bccir₀ |
| 4 | Ross-on-Wye | cbcc | cbc | cd₀bccb | bcc |
| 5 | Portland Bill | c | c | bc | c |
| | Plymouth | bcm₀ | bcm₀c | c | co |
| | Falmouth | bcp₀ | bc | bccr₀ | cr₀ |
| | Scilly (St. Mary's) | cpbcc | cp₀bc | bcpbc | bcc |
| | Guernsey | bc | bc | bccbc | bcco |
| 6 | Pembroke | bc | bcq | c | cq |
| 7 | Holyhead | bcc | c | cbcc | cir₀ |
| | Chester (Sealand) | bcc | cbc | cbcb | b·coid₀ |
| 8 | L'pool (Bidston) | pocq | cqc | cp₀c | od₀ |
| 9 | Harrogate | bcc | c | bbc | c |
| 10 | Spurn Head | cbcc | cpr₀c | cbc | ccr₀ |
| | Catterick | cbcc | cv | cbcwc | c |
| | Tynemouth | bc | co | obcoir₀ | oir |
| 11 | Inchkeith | bcc | c | bcc | c |
| | Leuchars | bbc~~cor~~ | bcvc | bc | bcco |
| 12 | Renfrew | pr₀cr₀ | cir₀id | bccir₀ | cir₀ |
| | Eskdalemuir | ccpr | ccpr₀ | cbcpr₀c | ccrc |
| 13A | Tiree | cpr | cprbc | bccd₀ | cid |
| 13B | Stornoway | cpriir₀ | cir₀ | cird₀ | cidir₀ |
| 15 | Dalwhinnie | c | bc | o | c |
| | Aberdeen | bc | cm₀ir₀ | or₀rr | orc |
| | Wick | bcpr₀ | cd₀d | orr | rrr₀r |
| 16 | Lerwick | cpr | cpr₀ | corrm₀ | orrm₀ |
| 17 | Blacksod Point | prcq | id | dd | dd |
| 18 | Malin Head | bccpr₀ | cid₀ | coid₀am | oid₀m₀ |
| | Aldergrove | cp₀ | cp₀ | ~~d~~cir₀c | c |
| | Donaghadee | bcc | cid₀ | c | c |
| 19 | Birr Castle | circ | cr₀ | cir₀ | cir₀c |
| 20 | Valentia Obsy. | bwbccp₀ | cpr₀ | pr₀d₀d₀ | d₀o |
| | Roches Point | bc | bcp₀,c | cbcbw | bcep₀c |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus.
R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ☾, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/10 of the sky.
"9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

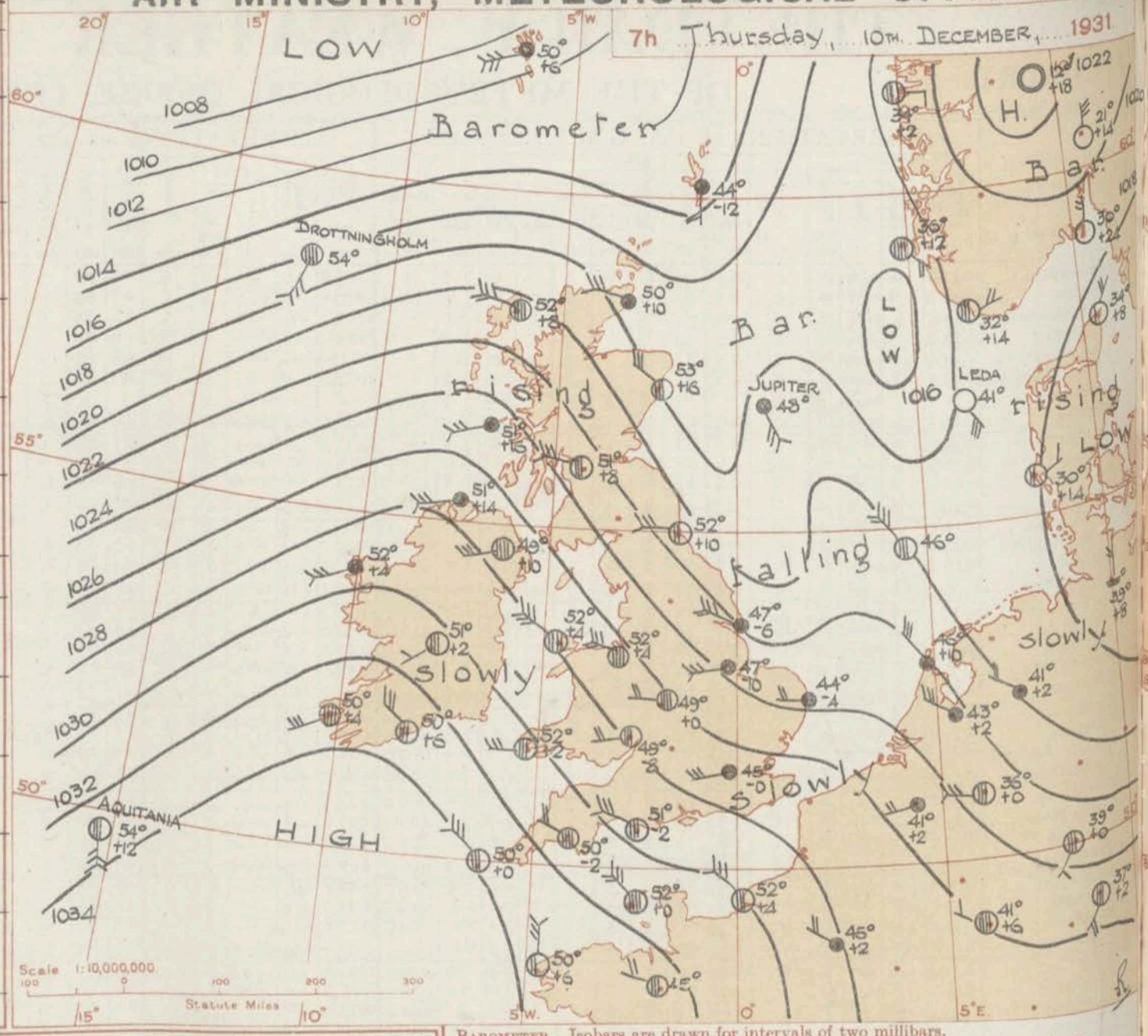
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

# AIR MINISTRY, METEOROLOGICAL OFFICE.

## REPORTS from HEALTH RESORTS for 9th December 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. to 9h. (8th to 9th) | Temperature. Max. 9h.—17h. (9th) | Rainfall. Night. 17h. to 9h. (8th to 9th) | Rainfall. Day. 9h.—17h. (9th) | Sunshine. Sunrise to Sunset. (9th) |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | ocbc | bcc | 33 | 47 | – | – | 2.4 |
| | Bournemouth | cco | occ | 38 | 50 | 0.3 | – | 1.3 |
| | Ventnor ... | opcb | bbcc | 41 | 49 | Trace | – | 3.1 |
| | Southsea ... | cb | bco | 40 | 49 | – | – | 3.5 |
| | Bognor Regis | cb | bcc | 37 | 48 | 0.5 | – | 3.4 |
| | Littlehampton | bc | bc | 36 | 48 | 0.3 | – | 3.8 |
| | Worthing ... | cbc | bcc | 37 | 48 | – | – | 3.7 |
| | Brighton ... | cbc | bc | 37 | 49 | 0.1 | – | 3.5 |
| | Eastbourne† | cbc | bcor₀ | 41 | 49 | 0.4 | Trace | 3.0 |
| | Hastings† ... | bcb | bcc | 37 | 48 | 2 | – | 3.2 |
| | Folkestone ... | xbbcc | cbcc | 38 | 48 | a.6 | – | 3.0 |
| | Dover ... ... | bccb | bo | 41 | 48 | 0.1 | – | 3.2 |
| | Deal ... ... | bcb | bcc | 40 | 47 | 1 | – | 2.6 |
| | Ramsgate ... | bc | bcc | 38 | 48 | 0.3 | – | 2.8 |
| | Margate ... | bc | bcc | 40 | 48 | 0.2 | – | 2.4 |
| 2 | Southend ... | bmbcf | bcfem | 36 | 47 | 0.2 | – | 1.3 |
| | Maldon ... | bccb | bcco | 36 | 48 | – | – | 2.2 |
| | Clacton-on-Sea | bc | bcc | 36 | 47 | – | – | 2.9 |
| | Dovercourt ... | xbc | bccr | 37 | 47 | Trace | Trace | 3.8 |
| | Lowestoft ... | bbc | ccod₀ | 35 | 45 | – | Trace | 2.3 |
| | Skegness ... | obc | bcnm | 40 | 47 | Trace | – | 2.5 |
| | Mablethorpe | wbc | cor₀ | 37 | 49 | – | Trace | 1.9 |
| | Cleethorpes ... | wcmc | cr₀ | 39 | 49 | – | – | 1.7 |
| 3 | Leamington S. | bc | co | 37 | 49 | – | – | 2.0 |
| 4 | Cheltenham† | bcq₀c | cbcm₀ | 38 | 49 | 0.3 | – | 1.1 |
| 5 | Bath ... ... | cbcb | c | 38 | 50 | 1 | – | 1.4 |
| | Weymouth ... | cbc | cbc | 43 | 52 | 0.3 | – | 2.3 |
| | Jersey ... | rcbc | bcc | 46 | 53 | 1 | – | 4.3 |
| | Torquay ... | bcmw | bcc | 38 | 53 | – | – | 3.2 |
| | Penzance ... | b | b | 44 | 54 | 0.3 | – | 5.4 |
| | St. Ives ... | c | c | 47 | 52 | 0.3 | – | 1.6 |
| | Bude ... ... | c | bcb | 49 | 52 | – | – | 2.1 |
| | Ilfracombe ... | cdbc | bcc | 47 | 52 | .2 | 0.1 | 1.1 |
| 6 | Aberystwyth | cbc | bcc | 47 | 50 | – | – | 0.9 |
| 7 | Llandudno ... | c | c | 46 | 50 | – | – | 0.0 |
| | Colwyn Bay ... | oco | occbc | 45 | 50 | – | – | 0.0 |
| | Rhyl ... ... | c | c | 44 | 50 | – | – | 0.0 |
| 8 | Wallasey ... | bcp₀c | c | 45 | 49 | 1 | Trace | 0.0 |
| | Southport‖ ... | co | o | 46 | 49 | – | – | 0.0 |
| | Blackpool ... | c | c | 46 | 49 | – | – | 0.0 |
| | Morecambe ... | c | rddo | 44 | 48 | – | 1 | 0.0 |
| 9 | Ilkley ... ... | cd₀c | c | 42 | 48 | – | Trace | 0.0 |
| 10 | Berwick-on-T. | c | o | 40 | 47 | – | – | 1.0 |
| 11 | Dunbar ... | bcm₀ | bc | 41 | 48 | – | – | 0.1 |
| 12 | Douglas ... | ccb | ccb | 43 | 49 | 0.3 | – | 0.0 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. K Thunderstorm.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 10th Dec., 1931. |
|---|---|
| 1. S.E. England<br>2. E. England<br>3. E. Midlands | Moderate westerly winds, backing; cloudy, rain at times; mild. |
| 4. W. Midlands<br>5. S.W. England<br>6. South Wales<br>7. North Wales<br>8. N.W. England<br>9. N. Midlands | Moderate or fresh winds between west and south; cloudy, rain at times; mild; mist locally. |
| 10. N.E. England<br>11. S.E. Scotland | As 1 - 3. |
| 12. S.W. Scotland & Isle of Man<br>13. A. W. Scotld. B. N.W. Scotland.<br>14. Mid-Scotland<br>15. N.E. Scotland<br>16. Orkneys and Shetlands.<br>17. N.W. Ireland<br>18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland | As 4 - 9. |

### GENERAL INFERENCE.

Barometric pressure is low over Iceland and high over the Bay of Biscay and secondary depressions are likely to move eastward across the British Isles. Weather will be mild and cloudy with rain at times in most districts.

### FURTHER OUTLOOK.

Rather unsettled generally.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

Forecasts issued at 0930 G.M.T.

H.M. Stationery Office Press Kingsway W.C.2 Pt 302/2336 K4 75 D K00 Gp 305 27000 11/31

W.A.P.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

Page 4.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 10th December 1931.

No. 25.585

### OBSERVATIONS at 1 hr. G.M.T. 10th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew)... | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 217 | 1028.0 | 0 | W | 3 | c | 45 | 85 | 6 | 5 | 3 | - | 4.6 | 7.8 | 5700 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester ... | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot (S'thmtn) | 8 | 1029.1 | 0 | WNW | 3 | bc | 45 | 95 | 7 | - | 7 | - | 0 | 2.3 | - |
| | Dungeness ... | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne ... | 346 | 1026.9 | +4 | NW | 3 | bc/pr | 44 | 95 | 5 | 5 | 2 | - | 2.3 | 4.6 | 2500 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston ... | 14 | 1024.5 | +4 | WNW | 2 | b | 43 | 95 | 6 | - | - | - | 0 | 0 | - |
| | Cranwell ... | 240 | 1026.0 | +2 | W'S | 2 | b | 42 | 95 | 5 | - | - | - | 0 | 0 | - |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield ... | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye ... | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill... | 32 | 1030.4 | 0 | WNW | 4 | c | 51 | 85 | 8 | 4 | 7 | - | 7.8 | 10 | 2500 |
| | Plymouth ... | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth ... | 200 | 1033.0 | +2 | WNW | 3 | c | 48 | 95 | 8 | 5 | 1 | - | 4.6 | 9 | 4000 |
| | Scilly (St. Mary's) | 163 | 1033.6 | -6 | NW'W | 4 | b | 49 | 95 | 8 | 2 | - | - | 1 | 1 | 4000 |
| | Guernsey ... | 175 | 1031.1 | -4 | NNW | 3 | bc | 50 | 85 | 8 | 7 | - | - | 4.6 | 4.6 | 2500 |
| 6 | Pembroke ... | 142 | 1030.4 | 0 | WSW | 2 | c | 52 | 95 | 7 | 4 | 6 | - | 4.6 | 7.8 | 1500 |
| 7 | Holyhead ... | 26 | 1028.2 | 0 | W | 4 | c | 51 | 95 | 7 | 5 | - | - | 10 | 10 | 800 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate ... | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head ... | 29 | 1023.9 | +4 | NW'W | 4 | bc | 45 | 95 | 6 | 5 | - | - | 2.3 | 2.3 | 2500 |
| | Catterick ... | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth ... | 67 | 1022.5 | -6 | W | 2 | iro | 48 | 85 | 7 | 6 | - | - | 10 | 10 | 1500 |
| 11 | Inchkeith ... | 190 | 1021.1 | -12 | WSW | 4 | c | 48 | 95 | 8 | 5 | 7 | - | 4.6 | 9+ | 2500 |
| | Leuchars ... | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew ... | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree ... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway ... | 34 | 1017.2 | +10 | WNW | 7 | id | 52 | 95 | 6 | 6 | 2 | - | 7.8 | 10 | 800 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen ... | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick ... | 81 | 1015.4 | -28 | SSW | 3 | rr | 46 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 |
| 16 | Lerwick ... | 54 | 1015.4 | -6 | SE | 1 | rr | 42 | 95 | 6 | 6 | - | - | 10 | 10 | 800 |
| 17 | Blacksod Point | 18 | 1027.8 | +2 | WSW | 4 | DD | 52 | 95 | 6 | 6 | - | - | 10 | 10 | <150 |
| 18 | Malin Head ... | 52 | 1025.1 | +8 | WSW | 4 | ido | 51 | 95 | 4 | 5 | - | - | 10 | 10 | 800 |
| | Aldergrove ... | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee ... | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1032.6 | 0 | W | 2 | d | 51 | 95 | 4 | 3 | - | - | 10 | 10 | 450 |
| | Roches Point... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 10th December — PAST 24 HOURS

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) | Temp. Max. Day 7h-18h °F. (31) | Temp. Min. Night 18h-7h °F (32) | Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 9th Hrs. (36) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew)... | 1027.3 | -6 | SW | 3 | c/pr | 43 | 95 | 5 | 5 | 3 | - | 4.6 | 7.8 | 4000 | 1 | * | 49 | 42 | 37 | 0.1 | Tr | 2.9 |
| Croydon ... | 1027.8 | 0 | WSW | 3 | dd | 45 | 85 | 6 | 5 | 2 | - | 7.8 | 10 | 1500 | 1 | * | 49 | 43 | 39 | Tr | Tr | 3.0 |
| S. Farnborough | 1027.7 | -4 | W | 3 | iro | 45 | 95 | 6 | 5 | 2 | - | 4.6 | 10 | 2500 | 1 | * | 51 | 38 | 25 | - | Tr | 3.8 |
| Winchester ... | 1028.8 | -2 | W | 3 | c | 46 | 95 | 8 | 5 | 1 | - | 7.8 | 10 | 4000 | 1 | * | 50 | 42 | 40 | Tr | 0.3 | 3.8 |
| Boscombe Down | 1028.9 | -4 | WNW | 3 | c | 47 | 95 | 7 | 5 | 2 | - | 7.8 | 10 | 1500 | 1 | * | 48 | 42 | 37 | - | - | * |
| Calshot (S'thmtn) | 1029.0 | 0 | W'S | 2 | c/r | 46 | 95 | 7 | 5 | 7 | - | 4.6 | 10 | 2500 | 1 | 1 | 50 | 44 | 38 | - | 0.5 | 3.8 |
| Dungeness ... | * | * | WSW | 2 | c | * | * | 7 | 5 | 7 | * | 4.6 | 9+ | 2500 | * | 1 | 51 | 39 | * | - | - | * |
| Lympne ... | 1027.0 | 0 | NW | 3 | c | 42 | 95 | 6 | 5 | - | - | 9+ | 9+ | 4000 | 1 | * | 46 | 40 | 37 | - | 0.2 | 3.1 |
| Shoeburyness | 1026.4 | 0 | W | 3 | c/r | 44 | 95 | 6 | 5 | - | - | 7.8 | 9+ | 800 | 1 | * | 48 | 42 | 39 | - | Tr | 1.6 |
| Felixstowe ... | 1025.5 | -2 | WNW | 2 | c | 45 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | 1 | 47 | 43 | 40 | 0.1 | Tr | 3.5 |
| Gorleston ... | 1023.8 | -4 | W | 2 | roro | 44 | 95 | 5 | 6 | - | - | 10 | 10 | 1500 | 1 | 2 | 47 | 41 | 38 | 0.1 | 0.3 | 1.8 |
| Cranwell ... | 1024.2 | -10 | W'S | 4 | iro | 47 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | * | 47 | 41 | 38 | - | 0.6 | 0.2 |
| Birmingham ... | 1027.0 | 0 | W | 2 | o | 49 | 85 | 7 | 5 | - | - | 10 | 10 | 800 | 1 | * | 48 | 45 | 41 | Tr | Tr | 1.3 |
| Upper Heyford | 1027.1 | -6 | WSW | 4 | c | 47 | 95 | 8 | 5 | 2 | - | 7.8 | 9 | 1500 | 1 | * | 48 | 41 | 36 | - | - | * |
| Leafield ... | 1027.2 | -8 | WSW | 3 | c/r | 44 | 95 | 8 | 5 | - | - | 9+ | 9+ | 4000 | 1 | * | 47 | 41 | 35 | - | 0.1 | 2.2 |
| Ross-on-Wye ... | 1027.7 | -8 | W'S | 2 | c | 49 | 85 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * | 50 | 45 | 34 | - | Tr | 1.1 |
| Portland Bill... | 1029.6 | -4 | W'N | 4 | c | 51 | 95 | 8 | 4 | - | - | 10 | 10 | 2500 | 0 | 3 | 51 | 50 | * | - | - | * |
| Plymouth ... | 1031.9 | -2 | WNW | 2 | o | 50 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | 1 | 52 | 48 | 44 | - | - | 2.6 |
| Falmouth ... | 1032.5 | -2 | NW'W | 3 | roro | 50 | 95 | 7 | 5 | 2 | - | 4.6 | 10 | 4000 | 1 | 2 | 52 | 48 | * | Tr | ~~0.2~~ 0.1 | 3.2 |
| Scilly (St. Mary's) | 1034.0 | 0 | NW'N | 4 | c | 50 | 95 | 8 | 2 | - | - | 7.8 | 7.8 | 4000 | 1 | 3 | 53 | 48 | * | 0.1 | 0.5 | 4.6 |
| Guernsey ... | 1030.9 | 0 | NNW | 5 | o | 52 | 85 | 8 | 8 | - | - | 10 | 10 | 1500 | 0 | 3 | 52 | 48 | 44 | - | - | 4.0 |
| Pembroke ... | 1030.3 | +2 | W'S | 3 | q | 52 | 95 | 7 | 6 | 2 | - | 7.8 | 10 | 800 | 0 | 3 | 53 | 52 | * | - | - | 2.9 |
| Holyhead ... | 1027.6 | -4 | NWW | 6 | o/d | 52 | 95 | 8 | 5 | - | - | 10 | 10 | 800 | 1 | 3 | 51 | 50 | 46 | - | 0.1 | 0.0 |
| Chester (Sealand) | 1027.1 | +4 | WNW | 5 | o | 52 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * | 50 | 49 | 47 | - | Tr | 0.0 |
| L'pool (Bidston) | 1026.4 | 0 | WNW | 6 | dodo | 50 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * | 49 | 48 | 47 | Tr | Tr | 0.0 |
| Harrogate ... | 1023.8 | +10 | W | 4 | c | 50 | 95 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * | 48 | 45 | 41 | - | - | 0.2 |
| Spurn Head ... | 1021.9 | -6 | WNW | 5 | rr | 47 | 95 | 6 | 6 | 2 | - | 4.6 | 10 | 1500 | 1 | 3 | 48 | 45 | * | Tr | 3 | 1.5 |
| Catterick ... | 1022.6 | +6 | NW | 4 | c | 53 | 85 | 8 | 5 | 7 | - | 4.6 | 7.8 | 1500 | 1 | * | 43 | 46 | 40 | - | Tr | * |
| Tynemouth ... | 1020.3 | +10 | W | 4 | bc | 52 | 85 | 7 | 2 | - | - | 4.6 | 4.6 | 2500 | 1 | 2 | 48 | 45 | 40 | - | 1 | * |
| Inchkeith ... | 1020.7 | +2 | WSW | 5 | c | 51 | 95 | 9 | 5 | 2 | - | 2.3 | 7.8 | 7200 | 0 | 3 | 48 | 46 | 44 | - | - | 0.0 |
| Leuchars ... | 1019.7 | +14 | WNW | 5 | c | 55 (~~45~~) | 65 | 7 | 5 | - | - | 9+ | 9+ | 4000 | 1 | * | 47 | 41 | 36 | - | - | 0.1 |
| Renfrew ... | 1023.8 | +8 | WNW | 4 | c | 51 | 95 | 7 | 5 | 1 | - | 1 | 10 | 1500 | 1 | * | 48 | 46 | 43 | 2 | 0.2 | 0.3 |
| Eskdalemuir ... | 1022.5 | -2 | WNW | 7 | q | 51 | 85 | 8 | 5 | 7 | - | 4.6 | 10 | 1500 | 1 | * | 46 | 45 | 43 | 0.1 | 1 | 0.0 |
| Tiree ... | 1025.0 | +16 | WSW | 4 | ido | 51 | 95 | 6 | 5 | 2 | - | 7.8 | 10 | 800 | 1 | 2 | 50 | 49 | 45 | 0.6 | 0.5 | 0.0 |
| Stornoway ... | 1020.7 | +8 | WNW | 5 | o/r | 52 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | 3 | 48 | 43 | * | 0.6 | 5 | 0.0 |
| Dalwhinnie ... | 1022.7 | +10 | NW | 1 | c | 50 | 75 | 6 | 4 | 5 | - | 4.6 | 7.8 | 2500 | 0 | * | 45 | 42 | 41 | Tr | Tr | 0.4 |
| Aberdeen ... | 1018.7 | +16 | NW | 3 | c | 53 | 75 | 8 | 5 | 1 | - | 4.6 | 7.8 | 2500 | 1 | 1 | 48 | 43 | 41 | Tr | 7 | 1.3 |
| Wick ... | 1016.7 | +10 | WNW | 4 | roro | 50 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | 2 | 46 | 43 | * | 0.2 | 18 | * |
| Lerwick ... | 1013.4 | -12 | S | 2 | rr | 44 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | 2 | * | 45 | 41 | * | 2 | 19 | 0.3 |
| Blacksod Point | 1029.2 | +4 | WSW | 4 | dd | 52 | 95 | 6 | 6 | - | - | 10 | 10 | <150 | 1 | 3 | 52 | 51 | * | 1 | 1 | * |
| Malin Head ... | 1027.3 | +14 | W | 4 | ido | 51 | 95 | 5 | 5 | - | - | 10 | 10 | 800 | 1 | 3 | 51 | 50 | * | 1 | 1 | 0.5 |
| Aldergrove ... | 1028.1 | +10 | W'S | 3 | c | 49 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * | 49 | 46 | 40 | 0.5 | 0.4 | 0.4 |
| Donaghadee ... | 1027.0 | +6 | WNW | 2 | c | 50 | 85 | 7 | 5 | - | - | 7.8 | 7.8 | 1500 | 1 | 1 | 50 | 47 | * | 0.6 | 0.3 | * |
| Birr Castle ... | 1030.6 | +2 | SW | 1 | c | 51 | 95 | 7 | 5 | - | - | 7.8 | 7.8 | 1500 | 1 | * | 52 | 48 | 47 | 0.4 | 0.2 | 1.2 |
| Valentia Obsy.† | 1033.5 | +4 | WSW | 3 | o | 50 | 95 | 7 | 5 | - | - | 10 | 10 | 800 | 1 | * | 53 | 50 | 49 | Tr | 0.5 | 2.3 |
| Roches Point... | 1031.5 | +6 | NW | 3 | c | 50 | 95 | 8 | 5 | - | - | 7.8 | 7.8 | 2500 | 1 | 3 | 53 | 46 | * | 0.2 | 0.1 | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| Station | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon | Weather Night | Temp. Day Max. °F. | Temp. Night Min. °F. | Temp. Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset, hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew ... | 18 | cbczo | czoc | bcpbcmo | 49 | 42 | 37 | 0.1 | Tr | 2.9 | * | * | 6 |
| Croydon ... | 217 | cbcmo | czomo | cmocmdo | 49 | 43 | 39 | Tr | Tr | 3.0 | * | * | 5 |
| Greenwich (Royal Observatory) ... | 149 | cbm | bcm | cfdboid | 49 | 42 | 32 | - | 0.3 | 1.4 | 77 | 93 | 3 |
| City (Bunhill Row) ... | — | * | * | * | * | * | * | * | * | 1.3 | * | * | * |
| Westminster (St. James' Park) ... | 27 | * | * | * | 49 | 42 | 33 | 0.4 | | 2.0 | 73 | 91 | * |
| Regents Pk. (Botanic Gardens) ... | 168 | * | * | * | * | * | * | * | * | 1.9 | * | * | * |
| Camden Square ... | 110 | c | c | * | 49 | 43 | 36 | - | 0.3 | * | * | 92 | * |
| Kensington ... | 80 | bc | co | * | 50 | 43 | 34 | - | 0.3 | 2.6 | At 18h. 83 | 95 | * |
| Hampstead Observatory ... | 450 | bc | bcod | omr | 48 | 38 | 33 | Tr | 0.5 | 2.6 | * | 97 | * |

### Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 10th

| SOUTH KENSINGTON. Max. | Time. | Min. | Time. |
|---|---|---|---|
| 1.7 | 10hr 9th | <0.3 | 0/5hr 10th |

| KEW OBSERVATORY. Max. | Time. | Min. | Time. |
|---|---|---|---|
| 0.4 | 18hr 9th | 0.1 | 1hr 10th |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 9th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 10th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris ... | 1028.2 | WNW | 3 | bc | 45 | 1028.2 | WNW | 2 | ido | 45 | 48 | 43 | Tr | 1 |
| Brussels ... | 1023.9 | W | 4 | o | 45 | 1025.4 | WSW | 2 | rr | 41 | 45 | 37 | 0.2 | 0.1 |
| Berlin ... | 1022.5 | WSW | 5 | o | 41 | 1015.7 | WNW | 3 | o | 37 | 43 | 37 | 0.5 | 1 |
| Zurich ... | 1028.0 | N | 1 | o | 39 | 1027.5 | W | 1 | c | 36 | 43 | 36 | | 0.4 |
| Rome ... | 1013.9 | * | 2 | c | 52 | 1011.5 | NNE | 3 | o | 50 | 54 | 48 | - | 7 |

### EXPLANATION OF FIGURES & LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13-18 | 9 | 47-54 |
| 1 | 1-3 | 5 | 19-24 | 10 | 55-63 |
| 2 | 4-7 | 6 | 25-31 | 11 | 64-75 |
| 3 | 8-12 | 7 | 32-38 | 12 | 75 |
| | | 8 | 39-46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

Objects not visible at
0 Dense fog 55 yards.
1 Thick fog 220 "
2 Fog 550 "
3 Moderate fog 1,100 "
4 Mist or haze 1¼ miles.
5 Poor visibility 2½ "
6 Moderate " 6¼ "
7 Good " 12½ "
8 Very good " 31 "
9 Excellent " beyond 31m.

**COLUMN 30.—Code for State of Sea.**

0 Calm. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

TERMS OF SUBSCRIPTION. Single Copies, 1d. each; by post 1½d. 2/6 per month; 6/6 per quarter; 25/- per year.

METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 11th December 1931.

No. 25586

### OBSERVATIONS at 13h. G.M.T. 10th December

| District | Stations (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0-12 (4) | Weather. (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud. Form. Low. (9) | Form. Med. (10) | Form. High. (11) | Amount. Low 0-10 (12) | Amount. Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1026.1 | -10 | NWN | 4 | bc | 55 | 75 | 6 | 5 | - | 1 | 1 | 2-3 | 2500 |
| | Croydon | 1026.2 | -10 | NW | 3 | c | 52 | 85 | 5 | 3 | - | - | 9+ | 9+ | 1500 |
| | S. Farnborough | 1027.1 | -6 | NW | 4 | bc | 54 | 85 | 7 | 5 | 4 | 1 | 4-6 | 4-6 | 1500 |
| | Winchester | 1028.2 | -6 | NW | 4 | c | 54 | 85 | 7 | 5 | 7 | 1 | 4-6 | 7-8 | 1500 |
| | Boscombe Down | 1028.7 | 0 | NW | 4 | bc | 53 | 95 | 6 | 5 | - | 1 | 1 | 4-6 | 450 |
| | Calshot, S'thmtn | 1028.0 | -10 | NW | 4 | c | 53 | 85 | 7 | 8 | 3 | - | 4-6 | 7-8 | 2500 |
| | Dungeness | * | * | NW | 2 | c | * | * | 6 | 5 | 7 | - | 7-8 | 9 | 1500 |
| | Lympne | 1024.5 | -20 | NWN | 4 | c | 50 | 95 | 6 | 5 | 3 | - | 7-8 | 9+ | 450 |
| 2 | Shoeburyness | 1024.5 | -10 | WNW | 3 | c | 54 | 85 | 7 | 5 | 7 | - | 4-6 | 7-8 | 800 |
| | Felixstowe | 1023.6 | -10 | NWN | 4 | c | 53 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 |
| | Gorleston | 1021.8 | -24 | NNW | 4 | r₀r₀ | 50 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 |
| | Cranwell | 1025.4 | +4 | NWN | 4 | bc | 52 | 85 | 6 | 5 | 3 | 6 | 1 | 2-3 | 2500 |
| 3 | Birmingham | 1028.2 | +4 | NW | 4 | c | 51 | 85 | 6 | 6 | - | - | 9 | 9 | 800 |
| | Upper Heyford | 1027.6 | +4 | NWN | 4 | c | 53 | 85 | 7 | 5 | - | - | 7-8 | 7-8 | 1500 |
| | Leafield | 1027.3 | +10 | NW | 5 | c | 53 | 85 | 8 | 5 | - | 8 | 4-6 | 7-8 | 4000 |
| 4 | Ross-on-Wye | 1028.1 | 0 | NWN | 4 | bc | 55 | 75 | 9 | 1 | 4 | 2 | 1 | 4-6 | 4000 |
| 5 | Portland Bill | 1029.1 | -6 | WNW | 4 | c | 54 | 85 | 8 | 4 | 6 | 9 | 4-6 | 7-8 | 2500 |
| | Plymouth | 1032.6 | +4 | WNW | 2 | d₀d₀ | 52 | 95 | 5 | 5 | - | - | 10 | 10 | 450 |
| | Falmouth | 1033.0 | +2 | NW | 4 | id₀ | 51 | 95 | 6 | 5 | 2 | - | 4-6 | 10 | 4000 |
| | Scilly (St. Mary's) | 1034.2 | -4 | NW | 4 | id₀ | 50 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 |
| | Guernsey | 1030.2 | -8 | NW | 5 | c | 53 | 95 | 7 | 8 | - | - | 10 | 10 | 1500 |
| 6 | Pembroke | 1031.8 | +4 | W | 3 | c | 52 | 95 | 7 | 3 | 6 | - | 7-8 | 9 | 1500 |
| 7 | Holyhead | 1030.5 | +4 | NWN | 5 | c | 52 | 85 | 8 | 5 | - | - | 10 | 10 | 800 |
| | Chester (Sealand) | 1027.4 | +12 | WNW | 6 | c | 52 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 |
| 8 | L'pool (Bidston) | 1028.7 | 0 | WNW | 6 | c | 51 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 |
| 9 | Harrogate | 1025.4 | +6 | W | 3 | bc | 53 | 85 | 9 | - | - | 4 | 0 | 4-6 | - |
| 10 | Spurn Head | 1023.1 | +2 | NWN | 5 | c | 49 | 95 | 6 | - | 1 | 8 | 0 | 9+ | - |
| | Catterick | 1025.5 | +10 | NNW | 3 | c | 54 | 75 | 8 | 4 | 9 | 2 | 1 | 9 | 2500 |
| | Tynemouth | 1023.2 | +10 | W | 3 | bc | 52 | 85 | 6 | 2 | - | - | 4-6 | 4-6 | 2500 |
| 11 | Inchkeith | 1024.5 | +10 | SW | 5 | c | 50 | 95 | 7 | 5 | 9 | - | 2-3 | 9 | 4000 |
| | Leuchars | 1022.9 | +14 | W | 4 | c | 53 | 75 | 9 | 1 | 7 | - | Tr | 9+ | 2500 |
| 12 | Renfrew | 1026.5 | +10 | W | 3 | c | 52 | 85 | 7 | 5 | 7 | - | 9 | 9+ | 1500 |
| | Eskdalemuir | 1024.7 | +18 | WNW | 7 | c | 52 | 75 | 8 | 5 | 7 | - | 4-6 | 9+ | 1500 |
| 13A | Tiree | 1027.3 | +6 | WSW | 4 | id | 51 | 95 | 6 | 5 | 2 | - | 9+ | 10 | 450 |
| 13A | Stornoway | 1023.0 | +12 | WSW | 3 | c/d | 51 | 95 | 7 | 9 | 7 | - | 4-6 | 7-8 | 800 |
| 15 | Dalwhinnie | 1027.2 | +6 | W | 1 | c | 49 | 85 | 8 | 4 | 2 | - | 4-6 | 10 | 2500 |
| | Aberdeen | 1021.3 | +2 | WNW | 4 | c | 53 | 65 | 8 | 5 | 7 | 1 | 2-3 | 7-8 | 2500 |
| | Wick | 1020.0 | +16 | WNW | 4 | c | 50 | 95 | 8 | 8 | 2 | 8 | 4-6 | 7-8 | 1500 |
| 16 | Lerwick | 1015.5 | +10 | WNW | 3 | id | 49 | 95 | 4 | 6 | - | - | 10 | 10 | 4500 |
| 17 | Blacksod Point | 1030.8 | +2 | WSW | 4 | iD | 50 | 95 | 7 | 6 | - | - | 10 | 10 | <150 |
| 18 | Malin Head | 1029.1 | -2 | W | 4 | c/d | 51 | 95 | 5 | 5 | - | - | 9 | 9 | 450 |
| | Aldergrove | 1029.9 | +6 | WS | 3 | c | 51 | 95 | 8 | 5 | - | - | 9+ | 9+ | 1500 |
| | Donaghadee | 1030.0 | +4 | WNW | 2 | c | 52 | 85 | 7 | 5 | - | - | 9 | 9 | 1500 |
| 19 | Birr Castle | 1032.9 | +12 | WSW | 1 | o | 51 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 |
| 20 | Valentia Obsy. | 1034.4 | -2 | SW | 3 | c | 51 | 95 | 8 | 5 | - | - | 9+ | 9+ | 800 |
| | Roches Point | 1033.9 | +6 | W | 2 | c | 51 | 95 | 8 | 5 | - | - | 9 | 9 | 1500 |

### OBSERVATIONS at 18h. G.M.T. 10th December

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind. Direc. (17) | Wind. Force 0-12 (18) | Weather. (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud. Form. Low. (23) | Form. Med. (24) | Form. High. (25) | Amount. Low 0-10 (26) | Amount. Total 0-10 (27) | Height of Base (feet) (28) | State of Ground. 0-9 (29) | Sea. 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1027.8 | +12 | NW | 2 | c | 51 | 85 | 6 | 5 | - | - | 7-8 | 7-8 | 2500 | 1 | * |
| | Croydon | 1027.2 | +6 | NWN | 3 | c | 50 | 85 | 5 | 5 | - | - | 9 | 9 | 1500 | 1 | * |
| | S. Farnborough | 1028.3 | +14 | W | 2 | c | 52 | 85 | 7 | 5 | - | 8 | 7-8 | 9+ | 1500 | 1 | * |
| | Winchester | 1028.9 | +10 | NW | 3 | c | 51 | 85 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| | Boscombe Down | 1028.5 | +4 | NW | 4 | bc | 49 | 95 | 6 | - | 3 | - | 0 | 2-3 | - | 1 | * |
| | Calshot, S'thmtn | 1028.2 | +2 | NW | 4 | c | 50 | 95 | 7 | 5 | 5 | 1 | 2-3 | 7-8 | 2500 | 1 | 1 |
| | Dungeness | * | * | NW | 2 | c | * | * | 6 | 5 | 2 | * | 7-8 | 9 | 1500 | * | 0 |
| | Lympne | 1025.8 | +6 | NNW | 4 | o | 50 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 2 | Shoeburyness | 1026.2 | +8 | NNW | 3 | c | 50 | 95 | 7 | 5 | - | - | 7-8 | 7-8 | 4000 | 1 | * |
| | Felixstowe | 1025.7 | +24 | NWN | 4 | c | 52 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | 2 |
| | Gorleston | 1024.2 | +10 | NW | 5 | c | 51 | 95 | 6 | - | 2 | - | 0 | 10 | - | 0 | 3 |
| | Cranwell | 1027.3 | +12 | NWN | 3 | b | 47 | 95 | 6 | 5 | - | - | Tr | Tr | 4000 | 1 | * |
| 3 | Birmingham | 1028.9 | +6 | NNW | 5 | c | 50 | 85 | 6 | 5 | - | - | 9+ | 9+ | 800 | 1 | * |
| | Upper Heyford | 1028.2 | +10 | NW | 3 | c | 50 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Leafield | 1028.3 | +8 | NNW | 6 | c | 49 | 85 | 8 | 5 | - | - | 9 | 9 | 2500 | 1 | * |
| 4 | Ross-on-Wye | 1029.0 | +6 | WNW | 3 | c | 51 | 85 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| 5 | Portland Bill | 1029.2 | 0 | NW | 4 | bc | 52 | 85 | 8 | 4 | 4 | - | 4-6 | 4-6 | 2500 | 0 | 3 |
| | Plymouth | 1031.9 | -2 | NNW | 4 | d₀d₀ | 51 | 95 | 6 | 5 | - | - | 10 | 10 | 4150 | 1 | 1 |
| | Falmouth | 1032.9 | 0 | NWN | 3 | d₀d₀ | 50 | 95 | 6 | 6 | - | - | 10 | 10 | 4000 | 1 | 2 |
| | Scilly (St. Mary's) | 1034.6 | +2 | NNW | 4 | id₀ | 49 | 95 | 5 | 5 | - | - | 7-8 | 7-8 | 1500 | 1 | 3 |
| | Guernsey | 1029.5 | 0 | NW | 4 | bc | 53 | 95 | 7 | 5 | 6 | - | 4-6 | 4-6 | 2500 | 0 | 4 |
| 6 | Pembroke | 1031.0 | +4 | NW | 2 | c | 52 | 95 | 7 | 4 | 6 | - | 4-6 | 9 | 1500 | 0 | 2 |
| 7 | Holyhead | 1031.2 | +8 | NW | 4 | c | 52 | 95 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 |
| | Chester (Sealand) | 1030.1 | +4 | NWN | 5 | o | 51 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 8 | L'pool (Bidston) | 1029.6 | +2 | WNW | 6 | o | 50 | 95 | 8 | 5 | - | - | 10 | 10 | 2500 | 0 | * |
| 9 | Harrogate | 1027.0 | +16 | WSW | 1 | b | 49 | 85 | 7 | - | - | - | 0 | 0 | - | 1 | * |
| 10 | Spurn Head | 1025.6 | +6 | NW | 4 | c | 47 | 95 | 6 | 5 | 2 | - | 4-6 | 9+ | 2500 | 0 | 3 |
| | Catterick | 1026.5 | +10 | - | 0 | bc | 50 | 85 | 8 | 5 | - | 1 | 2-3 | 4-6 | 2500 | 1 | * |
| | Tynemouth | 1025.2 | +14 | W | 2 | bc | 50 | 85 | 7 | 2 | - | - | 4-6 | 4-6 | 2500 | 0 | 1 |
| 11 | Inchkeith | 1025.3 | +4 | WSW | 5 | bc | 50 | 95 | 8 | 5 | 4 | - | 2-3 | 2-3 | 4000 | 0 | 3 |
| | Leuchars | 1025.2 | +16 | WSW | 2 | bc | 45 | 85 | 9 | - | - | 2 | 0 | 2-3 | - | 1 | * |
| 12 | Renfrew | 1028.1 | +16 | W | 3 | c | 50 | 95 | 7 | 8 | 7 | - | 7-8 | 9+ | 1500 | 1 | * |
| | Eskdalemuir | 1028.0 | +6 | NW | 3 | bc | 49 | 85 | 8 | 5 | - | - | 4-6 | 4-6 | 1500 | 1 | * |
| 13A | Tiree | 1028.4 | +8 | WS | 4 | c/d | 50 | 95 | 6 | 5 | 1 | - | 9 | 10 | 800 | 1 | 2 |
| 13A | Stornoway | 1024.2 | +12 | WSW | 3 | id₀ | 50 | 95 | 8 | 9 | 7 | - | 4-6 | 7-8 | 1500 | 1 | 2 |
| 15 | Dalwhinnie | 1028.4 | +8 | W | 2 | bc | 48 | 85 | 6 | 7 | 2 | - | 4-6 | 7-8 | 1500 | 0 | * |
| | Aberdeen | 1024.7 | +20 | W | 3 | bc | 52 | 75 | 7 | 5 | 4 | - | 4-6 | 4-6 | 2500 | 1 | 1 |
| | Wick | 1022.3 | +20 | WNW | 3 | c | 51 | 85 | 8 | 8 | 2 | - | 7-8 | 10 | 1500 | 1 | 2 |
| 16 | Lerwick | 1018.4 | +16 | W | 3 | c | 50 | 95 | 6 | 5 | 2 | - | 4-6 | 9 | 800 | 1 | * |
| 17 | Blacksod Point | 1031.5 | +2 | WSW | 3 | iD | 49 | 95 | 7 | 6 | - | - | 10 | 10 | <150 | 1 | 3 |
| 18 | Malin Head | 1029.9 | +10 | W | 4 | c/d | 50 | 95 | 5 | 5 | 1 | - | 9 | 10 | 800 | 1 | 3 |
| | Aldergrove | 1031.8 | +16 | SWW | 2 | id₀ | 49 | 95 | 7 | 5 | - | - | 10 | 10 | 450 | 1 | * |
| | Donaghadee | 1030.4 | +2 | WNW | 1 | c | 51 | 95 | 7 | 5 | - | - | 9 | 9 | 1500 | 0 | 0 |
| 19 | Birr Castle | 1033.0 | +4 | WSW | 1 | c | 50 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| 20 | Valentia Obsy. | 1034.6 | +4 | SW | 2 | c | 50 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | 2 |
| | Roches Point | 1033.8 | +6 | NW | 3 | c | 50 | 95 | 8 | 5 | - | - | 9 | 9 | 1500 | 0 | 3 |

### PAST 24 HOURS.

| Stations | Weather 7h.–13h. 10th (37) | Weather 13h.–18h. 10th (38) | Weather 18h. 10th to 1h. 11th (39) | Weather 1h.–7h. 11th (40) |
|---|---|---|---|---|
| London (Kew) | cd₀b3₀ | b3₀bcm₀ | c3₀ | cm₀w |
| Croydon | cor₀m₀ | c9m₀ | cm₀ | cm₀w |
| S. Farnborough | cr₀c | bcc | cb | bm₀c |
| Winchester | c | c | cbc | ~~bc~~ bcc |
| Boscombe Down | cbcm₀ | bcbm₀ | bcbc | bcc |
| Calshot, S'thmtn | cir₀bc | bbcm₀ | c | cw |
| Dungeness | bc | bc | * | bc |
| Lympne | cprorrf | com₀ | ocm₀ | cm₀ |
| Shoeburyness | or₀mc | bccm₀ | c | cpr₀cm₀ |
| Felixstowe | cd₀dcm₀ | cm₀c | c | cr₀m₀ |
| Gorleston | oirfm | orcq | cq | cq |
| Cranwell | r₀cm₀ | bm₀ | b-cd₀b | cm₀ |
| Birmingham | oc | c | c | co |
| Upper Heyford | cir₀ | c | c | c |
| Leafield | cr₀c | bcc | c | c |
| Ross-on-Wye | cbcv | bcc | cc | cc |
| Portland Bill | c | cbc | bc | c |
| Plymouth | or₀d₀d₀ | om₀d₀d₀ | om₀ | cb |
| Falmouth | cr₀d₀m₀ | od₀m₀ | od₀c | c |
| Scilly (St. Mary's) | cp₀id | cid₀ | cid₀ | cid₀ |
| Guernsey | oc | com₀c | bcc | co |
| Pembroke | bcc | c | o | c |
| Holyhead | d₀oc | c | com₀ | om₀o |
| Chester (Sealand) | od₀m₀ | oc | od₀d | od₀dm₀ |
| L'pool (Bidston) | id₀c | co | od₀ | od₀d |
| Harrogate | cbc | bcb | b | b |
| Spurn Head | cr₀c | bc | bc | bc |
| Catterick | c | cbc | bcb | bcbfe |
| Tynemouth | bc | bc | bc | bcw |
| Inchkeith | c | cbc | bc | bc |
| Leuchars | crqcv | cbrw | bw | bw |
| Renfrew | c | c | c | cp₀ |
| Eskdalemuir | c | cbc | cbc | c |
| Tiree | cdd id m₀ | m₀id₀ | cdd₀ | id₀c |
| Stornoway | cid | cir₀ | cid₀ | c |
| Dalwhinnie | c | bc | | bc |
| Aberdeen | c | cbc | bcbw | bwbc |
| Wick | orrc | c | cbc | bcc |
| Lerwick | orridm | oidm | coid₀m₀ | odom₀ |
| Blacksod Point | id | id | id | prc |
| Malin Head | oidm₀m₀ | cidm₀m₀ | cid₀m₀m₀ | cm₀c |
| Aldergrove | co | coid₀ | od₀ | od₀ |
| Donaghadee | c | c | c | c |
| Birr Castle | co | oc | c | c |
| Valentia Obsy. | oidc | cid₀ | id₀ | id₀ |
| Roches Point | c | c | c | coid₀ |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus.
R, heavy rain. $r_o$, slight rain.
rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ⊗, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; −, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/10 of the sky.
"9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

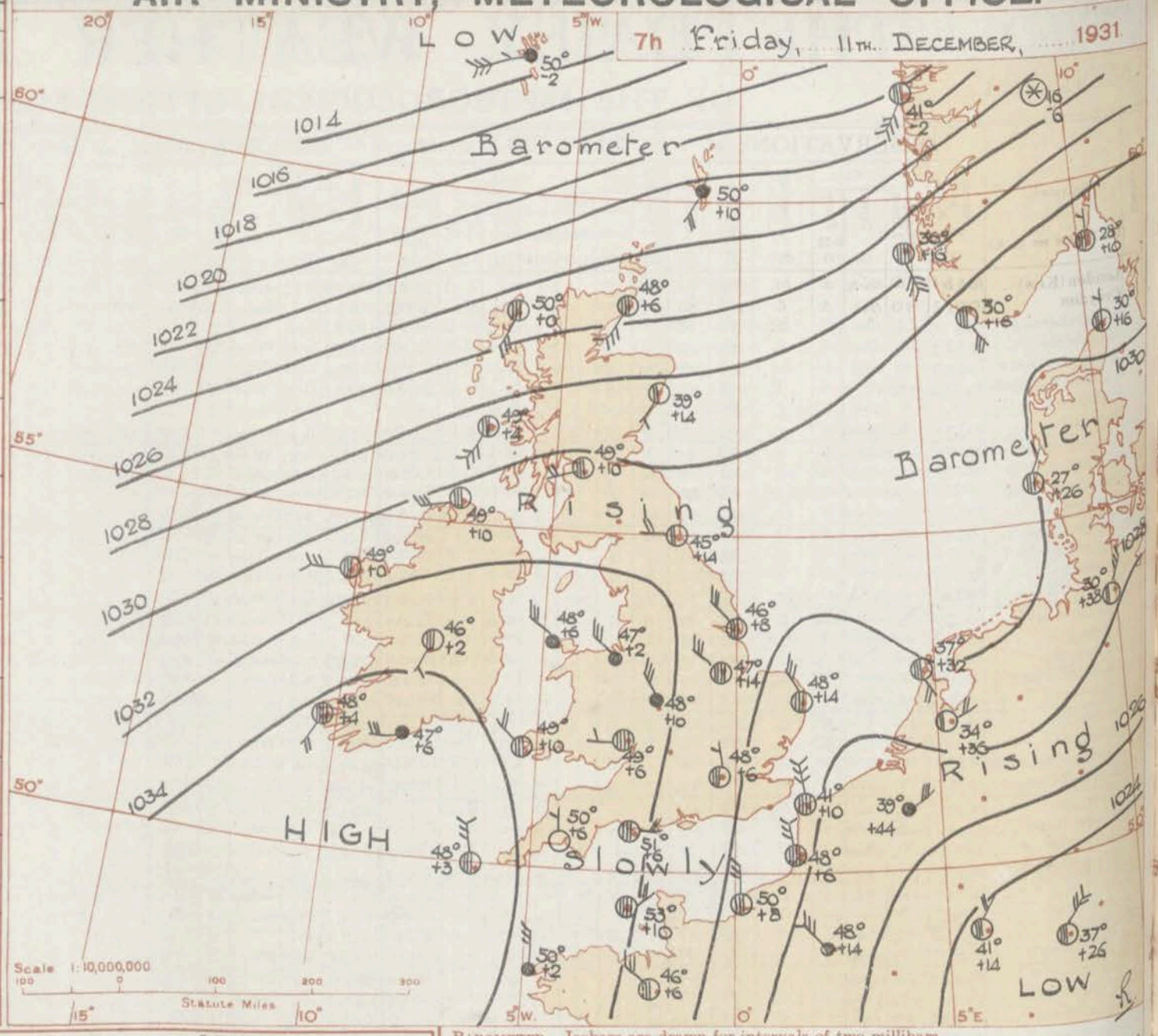
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

# AIR MINISTRY, METEOROLOGICAL OFFICE.

## REPORTS from HEALTH RESORTS for 10th December 1931.

| Districts | Stations | Weather. Fore-noon. | Weather. After-noon. | Temperature. Min. 9h. 9th to 9h. 10th | Temperature. Max. 9h.—17h. 10th | Rainfall. Night. 17h. 9th to 9h. 10th | Rainfall. Day. 9h.—17h. 10th | Sunshine. Sunrise to Sunset. 10th |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | o | obc | 38 | 53 | 0·5 | – | 1.9 |
| | Bournemouth | o | obc | 43 | 54 | – | – | 1.5 |
| | Ventnor ... | pobco | ob | 43 | 55 | 0·3 | – | 3.8 |
| | Southsea ... | orm | b | 42 | 55 | 0·5 | – | 3.0 |
| | Bognor Regis | ocbc | bcbc | 39 | 50 | 0·3 | – | 1·5 |
| | Littlehampton | cbc | bc | 37 | 57 | 0·1 | – | 2.2 |
| | Worthing ... | odo | ocbc | 37 | 56 | Trace | Trace | 2.3 |
| | Brighton ... | coc | bcbc | 42 | 55 | Trace | – | 0.5 |
| | Eastbourne† | iroc | cbcb | 45 | 55 | Trace | Trace | 2.0 |
| | Hastings† ... | oroc | cbcc | 42 | 54 | 0·3 | 0.4 | 1.8 |
| | Folkestone ... | omdc | co | 40 | 54 | 0·2 | 1 | 0.0 |
| | Dover... ... | orir | o | 41 | 54 | 1 | 0·5 | 0.0 |
| | Deal ... ... | oro | o | 41 | 53 | 0.5 | 1 | 0.0 |
| | Ramsgate ... | ro | o | 44 | 52 | 2 | 0·5 | 0.0 |
| | Margate ... | cr | cd | 43 | 51 | 1 | 0.3 | 0.0 |
| 2 | Southend ... | omc | c | 38 | 55 | 1 | – | 1.2 |
| | Maldon ... | roc | c | 44 | 54 | 2 | 0.3 | 0.9 |
| | Clacton-on-Sea | orc | c | 39 | 55 | 1 | 0.5 | 0.7 |
| | Dovercourt ... | roc | doc | 38 | 53 | 1 | 0.3 | 0.0 |
| | Lowestoft ... | ciop | ciod | 38 | 51 | 2 | 0·2 | 0.0 |
| | Skegness ... | om | omcm | 41 | 54 | 3 | – | 0.7 |
| | Mablethorpe | oc | co | 42 | 53 | 3 | – | 0.7 |
| | Cleethorpes ... | circ | c | 44 | 53 | 2 | – | 0.7 |
| 3 | Leamington S. | ogc | oc | 42 | 54 | – | – | 0.2 |
| 4 | Cheltenham† | omc | cbcc | 38 | 55 | Trace | – | 1.2 |
| 5 | Bath ... ... | cbcc | cbbcc | 42 | 54 | Trace | – | 1.6 |
| | Weymouth ... | cb | cb | 45 | 56 | – | – | 3.1 |
| | Jersey ... | oc | c | 47 | 54 | Trace | – | 0.0 |
| | Torquay ... | bcc | cbcc | 40 | 56 | – | – | 3.1 |
| | Penzance ... | com | odm | 47 | 53 | 0·5 | Trace | 0.0 |
| | St. Ives ... | o | ? | 49 | 53 | 0·5 | Trace | 0.0 |
| | Bude ... ... | odoc | oc | 50 | 52 | – | Trace | 0.0 |
| | Ilfracombe ... | odo | o | 50 | 53 | 1 | 0·1 | 0.0 |
| 6 | Aberystwyth | coid | oid | 48 | 51 | 1 | 0.3 | 0.0 |
| 7 | Llandudno ... | c | coc | 48 | 52 | 1 | r | 0.0 |
| | Colwyn Bay... | ro | o | 48 | 52 | 1 | – | 0.0 |
| | Rhyl ... ... | o | o | 47 | 52 | 0·2 | – | 0.0 |
| 8 | Wallasey ... | oc | c | 48 | 51 | 0·5 | – | 0.0 |
| | Southport‖ ... | o | co | 48 | 51 | 0·5 | – | 0.0 |
| | Blackpool ... | oro | c | 48 | 51 | 1 | – | 0.0 |
| | Morecambe ... | rpc | drpc | 46 | 50 | 1 | Trace | 0.0 |
| 9 | Ilkley... ... | o | o | 44 | 52 | – | – | 0.0 |
| 10 | Berwick-on-T. | oc | cbc | 44 | 52 | 4 | – | 0.0 |
| 11 | Dunbar ... | cbc | bcm | 42 | 52 | 0·5 | – | 0.0 |
| 12 | Douglas ... | c | oido | 46 | 52 | 1 | Trace | 0.0 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 3/10 clouded. ◑ Sky 3/10 to 7/10 clouded. ◑ Sky 7/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 11th Dec., 1931. |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands<br>4. W. Midlands<br>5. S.W. England<br>6. South Wales | Moderate variable winds; mainly cloudy, occasional rain locally; mild; mist or fog in places tonight. |
| 7. North Wales<br>8. N.W. England | Moderate westerly to fresh southerly winds; mainly cloudy, occasional rain at first, more general rain tomorrow; mild. |
| 9. N. Midlands<br>10. N.E. England<br>11. S.E. Scotland | Moderate westerly winds, backing; mainly cloudy, occasional rain locally; mild. |
| 12. S.W. Scotland & Isle of Man<br>13. A. W. Scotld. B. N.W. Scotland.<br>14. Mid-Scotland | Fresh southwesterly to strong southerly winds; cloudy, occasional rain at first, more general rain later; mild. |
| 15. N.E. Scotland<br>16. Orkneys and Shetlands. | Moderate to fresh southwesterly to southerly winds; cloudy, occasional rain at first, more general rain later; mild. |
| 17. N.W. Ireland<br>18. N.E. Ireland | As 12 - 14 |
| 19. S.E. Ireland<br>20. S.W. Ireland | Moderate variable to southwesterly winds; cloudy, occasional rain at first, more general rain later; mild.<br>As 12 - 14. |

### GENERAL INFERENCE.

Pressure continues high over the Bay of Biscay while a trough of low pressure on the Eastern Atlantic is likely to move steadily eastward. Weather will be mild generally with occasional rain locally at first and more general rain in the West later.

### FURTHER OUTLOOK.

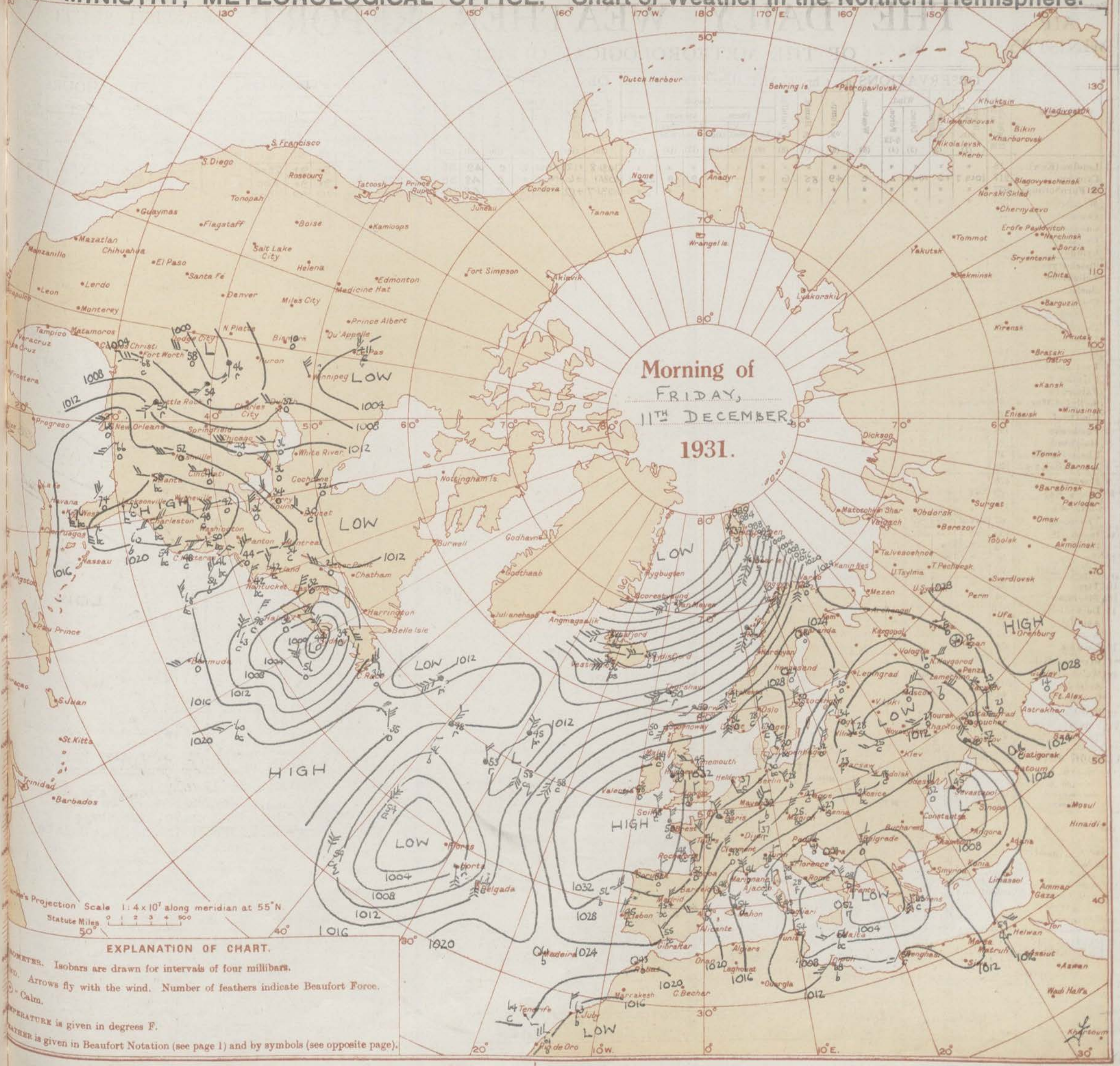
Unsettled with rain in the West and North; cloudy with occasional rain in the Southeast.

Forecasts issued at 0930 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2. Pk 307/230 Wt. 15. D.8001 Gp.908. 282/D. 12/31.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.




## EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊕ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 11th December 1931.

No. 25586

### OBSERVATIONS at 1 hr. G.M.T. 11th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1029.7 | +6 | NNW | 2 | c | 49 | 85 | 6 | s | - | - | 9 | 9 | 2500 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot, (S'thmtn) | 8 | 1030.3 | +10 | NW | 3 | c | 51 | 85 | 7 | s | - | - | 7.8 | 7.8 | 2500 |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1027.7 | +12 | N'W | 4 | c | 47 | 95 | 6 | 8 | 2 | - | 4.6 | 9 | 1500 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1027.2 | +10 | N | 4 | c | 49 | 95 | 7 | - | 2 | - | 0 | 10 | - |
| | Cranwell | 240 | 1029.9 | +12 | WNW | 3 | c | 47 | 95 | 5 | s | - | - | 9 | 9 | 4000 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1031.5 | +14 | NW | 3 | c | 52 | 85 | 8 | 4 | 7 | - | 7.8 | 10 | 2500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1033.2 | -2 | NNW | 4 | c | 50 | 95 | 8 | s | 2 | - | 4.6 | 10 | 4000 |
| | Scilly (St. Mary's) | 163 | 1034.8 | 0 | N'W | 4 | id. | 48 | 95 | 6 | s | - | - | 9+ | 9+ | 1500 |
| | Guernsey | 175 | 1031.2 | +4 | N'E | 2 | c | 53 | 95 | 7 | 8 | - | - | 10 | 10 | 2500 |
| 6 | Pembroke | 142 | 1034.2 | +4 | NNW | 2 | 0 | 50 | 95 | 7 | 5 | - | - | 10 | 10 | <150 |
| 7 | Holyhead | 26 | 1032.2 | +4 | NW | 3 | 0 | 50 | 95 | 6 | s | - | - | 10 | 10 | 1500 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1028.1 | +6 | NW'N | 3 | c | 45 | 95 | 6 | s | 3 | - | 4.6 | 7.8 | 1500 |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1028.8 | +6 | W | 2 | bc | 47 | 95 | 7 | s | - | - | 2.3 | 2.3 | 1500 |
| 11 | Inchkeith | 190 | 1028.3 | +10 | WSW | 3 | bc | 49 | 95 | 7 | s | - | - | 2.3 | 2.3 | 4000 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1025.1 | +4 | SW | 4 | c | 51 | 95 | 7 | 4 | - | - | 10 | 10 | 2500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1024.7 | +10 | WNW | 2 | bc | 48 | 95 | 8 | 8 | 2 | - | 4.6 | 4.6 | 1500 |
| 16 | Lerwick | 54 | 1020.8 | +14 | W | 2 | id. | 50 | 95 | 6 | 6 | - | - | 10 | 10 | 800 |
| 17 | Blacksod Point | 18 | 1031.7 | +2 | WSW | 4 | c | 49 | 95 | 7 | 8 | - | - | 7.8 | 7.8 | 220 |
| 18 | Malin Head | 52 | 1030.8 | +4 | WSW | 3 | c/d | 49 | 95 | 6 | 5 | 1 | - | 4.6 | 9+ | 800 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1034.7 | 0 | W | 1 | c | 48 | 95 | 7 | 3 | - | - | 10 | 10 | 1500 |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 11th December

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1031.8 | +12 | NNW | 2 | c | 49 | 95 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| | Croydon | 1031.1 | +6 | N'W | 1 | c | 48 | 95 | 5 | 6 | - | - | 9+ | 9+ | 800 | 1 | * |
| | S. Farnborough | 1031.7 | +12 | NW | 2 | c | 48 | 95 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Winchester | 1032.0 | +6 | N'W | 3 | c | 48 | 95 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| | Boscombe Down | 1032.1 | +8 | NNW | 3 | c | 49 | 95 | 7 | 5 | 3 | - | 4.6 | 9 | 1500 | 1 | * |
| | Calshot, (S'thmtn) | 1031.5 | +6 | NW'W | 3 | c | 49 | 95 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | 1 |
| | Dungeness | * | * | NW | 2 | c | * | * | 6 | 4 | 7 | * | 7.8 | 9 | 1500 | * | 1 |
| | Lympne | 1029.7 | +14 | N | 4 | c | 47 | 95 | 5 | 5 | 2 | - | 9 | 10 | 800 | 1 | * |
| 2 | Shoeburyness | 1030.4 | +10 | NW | 2 | c | 48 | 95 | 6 | 5 | 2 | - | 9 | 9+ | 800 | 1 | * |
| | Felixstowe | 1029.8 | +20 | N | 3 | dr | 48 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 2 |
| | Gorleston | 1028.8 | +14 | N'W | 3 | c | 48 | 95 | 7 | 5 | - | - | 9 | 9 | 1500 | 0 | 3 |
| | Cranwell | 1031.7 | +14 | NW'W | 3 | c | 47 | 95 | 5 | 5 | - | - | 10 | 10 | 4000 | 1 | * |
| 3 | Birmingham | 1032.8 | +10 | NNW | 3 | pr. | 48 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| | Upper Heyford | 1032.3 | +10 | NNW | 2 | c | 48 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Leafield | 1031.9 | +10 | NNW | 3 | c | 47 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 4 | Ross-on-Wye | 1032.3 | +6 | W | 1 | c | 49 | 95 | 8 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| 5 | Portland Bill | 1032.3 | +6 | NW | 2 | c | 51 | 85 | 8 | 4 | 1 | - | 7.8 | 10 | 2500 | 1 | 3 |
| | Plymouth | 1033.7 | +6 | N | 1 | b | 50 | 95 | 8 | 1 | - | - | Tr | Tr | 2500 | 1 | 1 |
| | Falmouth | 1033.9 | +4 | N'W | 2 | c | 49 | 95 | 7 | 5 | 2 | - | 4.6 | 10 | 4000 | 0 | 1 |
| | Scilly (St. Mary's) | 1034.9 | +2 | N'W | 4 | c | 48 | 95 | 7 | 5 | - | - | 7.8 | 7.8 | 2500 | 1 | 3 |
| | Guernsey | 1032.2 | +10 | NE | 2 | 0 | 53 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 0 | 3 |
| 6 | Pembroke | 1033.5 | +10 | NW | 2 | c | 49 | 95 | 7 | 4 | 6 | - | 7.8 | 9 | 1500 | 0 | 2 |
| 7 | Holyhead | 1033.3 | +6 | NW | 3 | id. | 48 | 95 | 8 | 5 | - | - | 10 | 10 | 800 | 1 | 2 |
| | Chester (Sealand) | 1033.1 | +8 | NW'N | 3 | dd | 49 | 95 | 5 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| 8 | L'pool (Bidston) | 1032.9 | +2 | NW | 3 | d.d. | 47 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 9 | Harrogate | 1032.1 | +6 | WSW | 1 | b | 42 | 95 | 7 | 5 | - | - | 1 | 1 | 4000 | 1 | * |
| 10 | Spurn Head | 1030.6 | +8 | NW'N | 3 | c | 46 | 95 | 6 | 5 | 2 | - | 4.6 | 9+ | 2500 | 0 | 2 |
| | Catterick | 1032.2 | +16 | - | 0 | bfog | 35 | 95 | 7 | - | 3 | - | 0 | 1 | - | 1 | * |
| | Tynemouth | 1030.4 | +14 | W | 2 | bc | 45 | 95 | 6 | 5 | - | - | 4.6 | 4.6 | 800 | 1 | 2 |
| 11 | Inchkeith | 1029.5 | +8 | WSW | 3 | c | 47 | 95 | 7 | 5 | - | - | 2.3 | 2.3 | 1500 | 0 | 1 |
| | Leuchars | 1029.0 | +16 | W | 2 | b | 43 | 95 | 8 | - | - | - | 0 | 0 | - | 1 | * |
| 12 | Renfrew | 1031.4 | +10 | WSW | 2 | c | 49 | 95 | 7 | 8 | - | - | 7.8 | 7.8 | 1500 | 1 | * |
| | Eskdalemuir | 1031.5 | +8 | W | 2 | c | 47 | 85 | 8 | 5 | - | - | 9 | 9 | 1500 | 1 | * |
| 13A | Tiree | 1029.1 | +4 | SW | 5 | c | 49 | 95 | 6 | 5 | 1 | - | 7.8 | 10 | 2500 | 1 | 3 |
| 13B | Stornoway | 1025.0 | 0 | SSW | 3 | c | 50 | 95 | 7 | 6 | 2 | - | 4.6 | 7.8 | 2500 | 1 | 2 |
| 15 | Dalwhinnie | 1030.1 | +12 | - | 0 | bc | 44 | 95 | 6 | 4 | 6 | - | 4.6 | 4.6 | 2500 | 0 | * |
| | Aberdeen | 1028.9 | +14 | SW | 1 | bc | 39 | 95 | 7 | - | 3 | 5 | 0 | 4.6 | - | 1 | 1 |
| | Wick | 1025.3 | +6 | SW | 4 | c | 48 | 95 | 8 | 8 | 7 | 8 | 4.6 | 7.8 | 2500 | 1 | 2 |
| 16 | Lerwick | 1022.1 | +10 | SW | 2 | d.d. | 50 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| 17 | Blacksod Point | 1031.7 | 0 | W | 4 | c | 49 | 95 | 7 | 8 | - | - | 7.8 | 7.8 | 220 | 1 | 3 |
| 18 | Malin Head | 1030.5 | +10 | WSW | 3 | c | 49 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | 3 |
| | Aldergrove | 1032.7 | +6 | S'E | 2 | d.d. | 46 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| | Donaghadee | 1032.8 | +12 | - | 0 | c | 47 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 0 | 0 |
| 19 | Birr Castle | 1033.8 | +2 | SW | 1 | c | 46 | 95 | 7 | 5 | - | - | 7.8 | 7.8 | 2500 | 1 | * |
| 20 | Valentia Obsy.† | 1034.9 | +4 | SW | 2 | 0 | 48 | 85 | 7 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| | Roches Point | 1034.9 | +6 | W | 3 | id. | 47 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 |

### PAST 24 HOURS.

| District | Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F. (32) | Temperature Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 10th Hrs. (36) |
|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 55 | 49 | 44 | 0.3 | 0.1 | 2.0 |
| | Croydon | 54 | 47 | 44 | 0.2 | Tr | 0.0 |
| | S. Farnborough | 55 | 47 | 42 | 0.1 | - | 2.7 |
| | Winchester | 55 | 44 | 41 | - | - | 3.2 |
| | Boscombe Down | 53 | 46 | 43 | - | - | * |
| | Calshot, (S'thmtn) | 54 | 48 | 45 | 0.1 | Tr | 3.1 |
| | Dungeness | 53 | 47 | * | 1 | Tr | * |
| | Lympne | 53 | 46 | 44 | 2 | - | 0.3 |
| 2 | Shoeburyness | 55 | 46 | 44 | 1 | Tr | 0.8 |
| | Felixstowe | 53 | 46 | 44 | 1 | Tr | 0.0 |
| | Gorleston | 54 | 47 | 44 | 0.2 | - | 0.0 |
| | Cranwell | 53 | 44 | 41 | 0.1 | Tr | 1.5 |
| 3 | Birmingham | 52 | 47 | 46 | - | Tr | 0.0 |
| | Upper Heyford | 53 | 48 | 46 | Tr | - | * |
| | Leafield | 53 | 47 | 46 | Tr | - | 3.6 |
| 4 | Ross-on-Wye | 56 | 49 | 47 | - | - | 4.1 |
| 5 | Portland Bill | 55 | 50 | * | - | - | * |
| | Plymouth | 52 | 49 | 48 | Tr | Tr | 0.0 |
| | Falmouth | 52 | 49 | * | Tr | 0.1 | 0.2 |
| | Scilly (St. Mary's) | 50 | 47 | * | 0.1 | Tr | 0.0 |
| | Guernsey | 53 | 52 | 48 | - | - | 0.0 |
| 6 | Pembroke | 53 | 48 | * | - | - | 0.0 |
| 7 | Holyhead | 52 | 48 | 46 | Tr | Tr | 0.0 |
| | Chester (Sealand) | 52 | 49 | 48 | 0.1 | 0.5 | 0.0 |
| 8 | L'pool (Bidston) | 51 | 47 | 46 | Tr | 0.1 | 0.0 |
| 9 | Harrogate | 53 | 42 | 34 | - | - | 1.1 |
| 10 | Spurn Head | 50 | 45 | * | 0.1 | - | 0.7 |
| | Catterick | 54 | 35 | 30 | - | - | * |
| | Tynemouth | 53 | 48 | 38 | - | Tr | * |
| 11 | Inchkeith | 53 | 47 | 44 | - | - | 0.0 |
| | Leuchars | 55 | 39 | 31 | - | Tr | 0.0 |
| 12 | Renfrew | 53 | 47 | 45 | - | Tr | 0.0 |
| | Eskdalemuir | 52 | 41 | 43 | - | - | 0.3 |
| 13A | Tiree | 51 | 49 | 45 | 0.3 | 0.4 | 0.0 |
| 13B | Stornoway | 53 | 49 | * | 0.3 | 0.1 | 0.1 |
| 15 | Dalwhinnie | 49 | 42 | 37 | - | - | 0.0 |
| | Aberdeen | 54 | 35 | 27 | - | 0.1 | 0.0 |
| | Wick | 51 | 47 | * | 0.3 | - | * |
| 16 | Lerwick | 51 | 50 | * | 7 | 1 | 0.0 |
| 17 | Blacksod Point | 52 | 48 | * | 1 | 0.3 | * |
| 18 | Malin Head | 51 | 49 | * | 1 | 0.1 | 0.0 |
| | Aldergrove | 50 | 46 | 45 | Tr | Tr | 0.0 |
| | Donaghadee | 53 | 47 | * | - | - | * |
| 19 | Birr Castle | 51 | 45 | 38 | - | - | 0.0 |
| 20 | Valentia Obsy.† | 51 | 46 | 44 | 0.2 | 0.2 | 0.0 |
| | Roches Point | 52 | 45 | * | - | 0.2 | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon, 9h—18h, Kensington. 9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h. 11th) | Weather Afternoon | Weather Night | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew | 18 | cdobz | bz.bcm | czcm | 55 | 49 | 44 | 0.3 | 0.1 | 2.0 | • | • | 5 |
| Croydon | 217 | co3m | cqmo | cmow | 54 | 47 | 44 | 0.2 | Tr | 0.0 | • | • | 4 |
| Greenwich (Royal Observatory) | 149 | oldf | c | cdodz | 55 | 48 | 41 | Tr | Tr | 0.1 | 79 | 89 | 4 |
| City (Bunhill Row) | — | • | • | • | • | • | • | • | • | 2.0 | • | • | • |
| Westminster (St. James' Park) | 27 | • | • | • | 56 | 48 | 40 | Nil | | 1.7 | 71 | 83 | • |
| Regents Pk. (Botanic Gardens) | 168 | • | • | • | • | • | • | • | • | | • | • | • |
| Camden Square | 110 | oc | bc | • | 55 | 47 | 43 | - | - | • | • | 91 | • |
| Kensington | 80 | odrbc | bc | • | 55 | 48 | 41 | - | 0.1 | 1.9 | At 18h. 88 | 88 | • |
| Hampstead Observatory | 450 | odbc | bcc | • | 52 | 44 | 47 | 0.1 | 0.1 | 2.5 | • | 96 | • |

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre, 24 hrs. ended 7h. G.M.T. 11th

| South Kensington Max. | Time. | Min. | Time. |
|---|---|---|---|
| 1.3 | 8/9hr 10th | Nil | 0/6hr 11th |

| Kew Observatory Max. | Time. | Min. | Time. |
|---|---|---|---|
| 0.3 | 20hr 10th | 0.1 | 13hr 10th |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 10th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 11th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris | 1024.6 | WNW | 4 | id. | 43 | 1027.3 | NW | 4 | d.d. | 48 | 50 | 48 | 1 | Tr |
| Brussels | | | | | | 1028.0 | ENE | 3 | d.d. | 39 | | 39 | - | 7 |
| Berlin | 1018.4 | NW | 3 | b | 32 | 1024.8 | NW'N | 4 | b | 28 | 39 | 28 | 0.2 | Tr |
| Zurich | 1024.8 | W | 1 | ir. | 46 | 1022.0 | N | 1 | rr | 37 | | 36 | | 7 |
| Rome | | | | | | 1009.9 | NNE | 4 | b | 43 | | | | - |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13–18 | 9 | 47–54 |
| 1 | 1–3 | 5 | 19–24 | 10 | 55–63 |
| 2 | 4–7 | 6 | 25–31 | 11 | 64–75 |
| 3 | 8–12 | 7 | 32–38 | 12 | 75 |
| | | 8 | 39–46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | Objects not visible at |
|---|---|
| 0 Dense fog | 55 yards. |
| 1 Thick fog | 220 " |
| 2 Fog | 550 " |
| 3 Moderate fog | 1,100 " |
| 4 Mist or haze | 1¼ miles. |
| 5 Poor visibility | 2½ " |
| 6 Moderate " | 6½ " |
| 7 Good " | 12½ " |
| 8 Very good " | 31 " |
| 9 Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | |
|---|---|
| 0 Calm. | 5 Very rough. |
| 1 Smooth. | 6 High. |
| 2 Slight. | 7 Very high. |
| 3 Moderate. | 8 Precipitous. |
| 4 Rough. | 9 Confused. |

TERMS OF SUBSCRIPTION. Single Copies, 1d. each; by post 1½d. 2/6 per month; 6/6 per quarter; 25/- per year.

METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

SATURDAY 12th December 1931.

No. 25587.

### OBSERVATIONS at 13h. G.M.T. 11th December

| District | Stations. (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0-12 (4) | Weather. (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud. Form. Low. (9) | Cloud. Form. Med. (10) | Cloud. Form. High (11) | Cloud. Amount. Low 0-10 (12) | Cloud. Amount. Total 0-10 (13) | Height of Base. (feet) (14) | Sunshine 10th Hrs. (36) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1033.4 | 0 | N'W | 2 | c | 51 | 85 | 6 | 8 | - | - | 9+ | 9+ | 4000 | 2.0 |
| | Croydon | 1032.8 | +2 | N | 2 | c | 50 | 85 | 4 | 5 | - | - | 10 | 10 | 800 | 0.0 |
| | S. Farnborough | 1033.3 | 0 | N'W | 1 | c | 51 | 85 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 2.7 |
| | Winchester | 1033.7 | +2 | N | 3 | c | 51 | 85 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 3.2 |
| | Boscombe Down | 1033.7 | +2 | NNE | 3 | c | 50 | 85 | 6 | 5 | - | - | 9+ | 9+ | 2500 | * |
| | Calshot, S'thmtn | 1033.3 | +6 | NNW | 3 | c | 51 | 85 | 6 | 5 | - | - | 10 | 10 | 4000 | 3.1 |
| | Dungeness | * | * | N | 3 | c | * | * | 6 | 5 | 2 | - | 4-6 | 9 | 1500 | * |
| | Lympne | 1032.1 | +2 | N'E | 4 | o | 48 | 85 | 6 | 5 | - | - | 10 | 10 | 800 | 0.3 |
| 2 | Shoeburyness | 1032.6 | +4 | N'E | 3 | ir | 51 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 0.8 |
| | Felixstowe | 1032.4 | +6 | SEE | 3 | d d | 46 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 0.0 |
| | Gorleston | 1032.6 | +12 | S'W | 3 | ir | 46 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 0.0 |
| | Cranwell | 1033.3 | -2 | WNW | 2 | c | 49 | 95 | 5 | 5 | - | - | 9+ | 9+ | 4000 | 1.5 |
| 3 | Birmingham | 1034.2 | +2 | N | 2 | dd | 47 | 95 | 3 | 5 | - | - | 10 | 10 | 220 | 0.0 |
| | Upper Heyford | 1034.0 | -2 | N'W | 3 | c | 50 | 85 | 6 | 5 | - | - | 9 | 9 | 1500 | * |
| | Leafield | 1034.0 | +12 | NNW | 3 | c | 48 | 85 | 6 | 5 | - | - | 9+ | 9+ | 4000 | 3.6 |
| 4 | Ross-on-Wye | 1033.9 | +4 | NW | 1 | o/d | 48 | 95 | 8 | 5 | - | - | 10 | 10 | 2500 | 4.1 |
| 5 | Portland Bill | 1034.0 | +10 | NW | 2 | c | 51 | 85 | 7 | 4 | 2 | - | 7-8 | 9 | 2500 | * |
| | Plymouth | 1035.1 | +6 | N | 3 | o | 49 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 | 0.0 |
| | Falmouth | 1035.3 | +2 | NNW | 3 | c | 49 | 95 | 7 | 5 | 2 | - | 4-6 | 10 | 4000 | 0.2 |
| | Scilly (St. Mary's) | 1036.3 | 0 | N'W | 3 | c | 49 | 85 | 7 | 8 | - | - | 7-8 | 7-8 | 4000 | 0.0 |
| | Guernsey | 1033.3 | +4 | NNE | 3 | c | 52 | 75 | 8 | 8 | - | - | 10 | 10 | 2500 | 0.0 |
| 6 | Pembroke | 1036.2 | +4 | W | 2 | o | 48 | 95 | 7 | 5 | - | - | 10 | 10 | - | 0.0 |
| 7 | Holyhead | 1034.5 | -2 | WNW | 3 | c | 49 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 0.0 |
| | Chester (Sealand) | 1034.7 | +2 | W'N | 3 | d d | 48 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 0.0 |
| 8 | L'pool (Bidston) | 1033.8 | 0 | WNW | 4 | d d | +6 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 0.0 |
| 9 | Harrogate | 1032.9 | +6 | WSW | 1 | bc | 49 | 85 | 8 | - | 3 | - | 0 | 4-6 | - | 1.1 |
| 10 | Spurn Head | 1032.7 | +4 | NW'N | 3 | c | 47 | 95 | 5 | 5 | 7 | - | 4-6 | 7-8 | 1500 | 0.7 |
| | Catterick | 1032.4 | -10 | S | 2 | bc | 50 | 85 | 8 | 5 | - | - | 4-6 | 4-6 | 4000 | * |
| | Tynemouth | 1031.0 | -4 | W | 2 | bc | 52 | 75 | 6 | 5 | - | - | 2-3 | 2-3 | 800 | * |
| 11 | Inchkeith | 1030.7 | -6 | SW | 4 | c | 49 | 85 | 7 | 5 | 3 | - | 7-8 | 9 | 2500 | 0.0 |
| | Leuchars | 1029.5 | -4 | SSW | 3 | b | 50 | 85 | 7 | 1 | 3 | 2 | Tr | 1 | 2500 | 0.0 |
| 12 | Renfrew | 1031.8 | -4 | W'N | 3 | c | 50 | 85 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 0.0 |
| | Eskdalemuir | 1032.3 | 0 | SSW | 3 | c | 46 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 | 0.3 |
| 13A | Tiree | 1030.2 | +6 | SW | 4 | c/d | 50 | 85 | 6 | 8 | 7 | 3 | 7-8 | 9+ | 1500 | 0.0 |
| 13B | Stornoway | 1025.3 | +2 | SW | 4 | c/d | 51 | 95 | 8 | 4 | - | - | 9+ | 9+ | 2500 | 0.1 |
| 15 | Dalwhinnie | 1033.1 | 0 | SSW | 2 | c | 49 | 75 | 8 | 7 | 5 | 3 | 4-6 | 7-8 | 800 | * |
| | Aberdeen | 1027.6 | -12 | SSW | 2 | b | 50 | 75 | 4 | - | 3 | - | 0 | Tr | - | * |
| | Wick | 1025.5 | 0 | SW | 2 | bc | 51 | 95 | 8 | 1 | 1 | 3 | 2-3 | 4-6 | 4000 | 0.3 |
| 16 | Lerwick | 1021.6 | -4 | SW | 2 | c | 50 | 95 | 7 | 5 | - | - | 9+ | 9+ | 800 | |
| 17 | Blacksod Point | 1032.9 | 0 | W | 3 | pr | 50 | 95 | 8 | 3 | - | - | 4-6 | 4-6 | 450 | 0.8 |
| 18 | Malin Head | 1032.1 | +6 | SW | 3 | c | 50 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 0.0 |
| | Aldergrove | 1033.7 | -2 | SW | 2 | o | 46 | 95 | 8 | 5 | - | - | 10 | 10 | 450 | 0.0 |
| | Donaghadee | 1033.3 | +2 | W'S | 1 | c | 47 | 95 | 7 | 5 | - | - | 9 | 9 | 1500 | 1.5 |
| 19 | Birr Castle | 1035.1 | +6 | NSW | 2 | o | 48 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 0.0 |
| 20 | Valentia Obsy. | 1036.3 | +2 | SW'S | 3 | id | 50 | 95 | 7 | 5 | - | - | 9+ | 9+ | 800 | * |
| | Roches Point | 1036.3 | -2 | WNW | 2 | c | 47 | 95 | 7 | 6 | - | - | 9+ | 9+ | 1500 | 0.0 |

### OBSERVATIONS at 18h. G.M.T. 11th December

| District | Stations. | Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind. Direc. (17) | Wind. Force 0-12 (18) | Weather. (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud. Form. Low. (23) | Cloud. Form. Med. (24) | Cloud. Form. High. (25) | Cloud. Amount. Low 0-10 (26) | Cloud. Amount. Total 0-10 (27) | Height of Base (feet) (28) | State of Ground. 0-9 (29) | Sea. 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1034.9 | +10 | - | 0 | c | 49 | 85 | 5 | 8 | - | - | 9+ | 9+ | 4000 | 1 | * |
| | Croydon | 1034.2 | +8 | - | 0 | of | 48 | 95 | 3 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| | S. Farnborough | 1034.4 | +6 | WNW | 1 | c | 47 | 95 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| | Winchester | 1034.7 | +6 | NNW | 2 | c | 47 | 95 | 6 | 5 | - | - | 10 | 10 | 4000 | 1 | * |
| | Boscombe Down | 1034.9 | +6 | NNW | 3 | o | 48 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Calshot, S'thmtn | 1033.8 | +2 | NW | 3 | bc | 46 | 95 | 6 | 5 | - | - | 4-6 | 4-6 | 4000 | 0 | 1 |
| | Dungeness | * | * | E | 1 | c | * | * | 7 | 5 | - | * | 9+ | 9+ | 1500 | * | 0 |
| | Lympne | 1034.2 | +10 | NE | 2 | id | 44 | 95 | 5 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| 2 | Shoeburyness | 1034.4 | +10 | - | 0 | id | 46 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| | Felixstowe | 1034.2 | 0 | - | 0 | c | 45 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | 1 |
| | Gorleston | 1033.8 | +6 | SSW | 2 | c | 44 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 2 |
| | Cranwell | 1034.2 | +8 | WN | 2 | cf | 47 | 95 | 3 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| 3 | Birmingham | 1035.0 | +4 | NW | 1 | o | 46 | 85 | 6 | 5 | - | - | 10 | 10 | 450 | 1 | * |
| | Upper Heyford | 1035.4 | +14 | NW | 1 | c | 47 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Leafield | 1034.8 | +6 | NW | 2 | c | 46 | 95 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| 4 | Ross-on-Wye | 1034.3 | +4 | W | 1 | o | 47 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 5 | Portland Bill | 1034.4 | +4 | NW | 3 | c | 49 | 95 | 5 | 4 | 2 | - | 7-8 | 10 | 1500 | 0 | 2 |
| | Plymouth | 1035.6 | +2 | N | 2 | o | 49 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | 0 |
| | Falmouth | 1035.9 | +4 | NNE | 2 | c | 48 | 95 | 7 | 5 | 2 | - | 4-6 | 10 | 4000 | 0 | 0 |
| | Scilly (St. Mary's) | 1036.5 | +2 | NE | 3 | bcfd | 47 | 95 | 7 | 8 | - | - | 4-6 | 4-6 | 4000 | 1 | 3 |
| | Guernsey | 1033.7 | +8 | NE | 2 | o | 51 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | 2 |
| 6 | Pembroke | 1035.4 | +2 | W | 2 | o | 47 | 95 | 7 | 5 | - | - | 10 | 10 | - | 0 | 1 |
| 7 | Holyhead | 1034.7 | +4 | W'S | 3 | c | 49 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 1 |
| | Chester (Sealand) | 1035.5 | +8 | WNW | 3 | d d | 47 | 85 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| 8 | L'pool (Bidston) | 1034.6 | +2 | WNW | 4 | id | 46 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 9 | Harrogate | 1033.2 | 0 | WSW | 3 | bc | 45 | 95 | 7 | - | 3 | - | 0 | 4-6 | - | 1 | * |
| 10 | Spurn Head | 1033.2 | +4 | W | 1 | om | 47 | 95 | 4 | 5 | - | - | 10 | 10 | 800 | 0 | 1 |
| | Catterick | 1032.6 | +2 | W | 1 | b | 41 | 95 | 8 | 5 | - | - | 1 | 1 | 2500 | 1 | * |
| | Tynemouth | 1031.2 | 0 | W | 2 | o | 47 | 85 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | 2 |
| 11 | Inchkeith | 1030.4 | -2 | WSW | 4 | c | 48 | 95 | 7 | 5 | 2 | - | 4-6 | 9 | 2500 | 0 | 2 |
| | Leuchars | 1028.8 | -4 | WSW | 3 | b | 46 | 85 | 6 | 5 | - | 2 | Tr | Tr | 2500 | 1 | * |
| 12 | Renfrew | 1031.5 | -2 | WSW | 2 | c | 48 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| | Eskdalemuir | 1032.5 | +2 | WSW | 3 | c | 45 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 13A | Tiree | 1029.3 | -4 | SSW | 4 | c | 50 | 95 | 7 | 5 | 7 | - | 4-6 | 7-8 | 1500 | 1 | 3 |
| 13B | Stornoway | 1024.4 | 0 | SW | 5 | c | 51 | 95 | 7 | 4 | - | - | 10 | 10 | 2500 | 1 | 3 |
| 15 | Dalwhinnie | 1030.5 | 0 | SSW | 2 | c | 45 | 85 | 6 | 4 | 4 | - | 4-6 | 9 | 800 | 0 | * |
| | Aberdeen | 1027.3 | 0 | - | 0 | bc | 40 | 95 | 6 | - | - | 4 | 0 | 4-6 | - | 1 | 0 |
| | Wick | 1023.9 | -8 | WSW | 4 | bc | 49 | 85 | 8 | 8 | 4 | 3 | 4-6 | 4-6 | 2500 | 1 | 2 |
| 16 | Lerwick | 1019.7 | -20 | SW | 7 | c | 50 | 95 | 6 | 5 | - | - | 9+ | 9+ | 800 | 1 | * |
| 17 | Blacksod Point | 1033.0 | +2 | W | 2 | c | 51 | 95 | 7 | 5 | - | - | 9+ | 9+ | <150 | 0 | 3 |
| 18 | Malin Head | 1031.4 | 0 | SW | 3 | bc | 48 | 95 | 7 | 5 | - | - | 2-3 | 2-3 | 2500 | 1 | 2 |
| | Aldergrove | 1034.1 | +2 | SSW | 2 | o | 46 | 95 | 8 | 5 | - | - | 10 | 10 | 450 | 1 | * |
| | Donaghadee | 1033.3 | 0 | W | 1 | c | 46 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 0 | 0 |
| 19 | Birr Castle | 1035.2 | +4 | SW | 1 | c | 47 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| 20 | Valentia Obsy. | 1036.3 | +2 | SW | 2 | c | 47 | 95 | 8 | 5 | - | - | 7-8 | 7-8 | 800 | 1 | 3 |
| | Roches Point | 1036.5 | +6 | NW | 2 | c | 48 | 95 | 8 | 5 | - | - | 9 | 9 | 1500 | 1 | 1 |

### PAST 24 HOURS.

| District | Stations. | Weather. 7h.–13h. 11th. (37) | Weather. 13h.–18h. 11th. (38) | Weather. 18h. 11th to 1h. 12th. (39) | Weather. 1h.–7h. 12th. (40) |
|---|---|---|---|---|---|
| 1 | London (Kew) | c3o | c3ocm | cmof | cw |
| | Croydon | omcm | omff | offw | omm |
| | S. Farnborough | cm | cm | c | cd |
| | Winchester | c | cm | c | c |
| | Boscombe Down | cm | cmom | om | ocd.m |
| | Calshot, S'thmtn | cm | cm | bccwm | bccwm |
| | Dungeness | bc | d | * | bc |
| | Lympne | cdomo | odmo | odom | od |
| 2 | Shoeburyness | cm | crmcm | ocdm | ocdmcm |
| | Felixstowe | cddmo | cmo | cm | cod.d.r |
| | Gorleston | oir | o | cff | fom |
| | Cranwell | cm | cmf | cfm | cbm |
| 3 | Birmingham | oidf | oidf | ocd | oc |
| | Upper Heyford | cmo | cmo | cm | cd.d |
| | Leafield | c | c | c | cid |
| 4 | Ross-on-Wye | coddo | odco | od.o | oco |
| 5 | Portland Bill | c | ccmo | c,c3 | c |
| | Plymouth | bo | cmo | cm | o |
| | Falmouth | c | c | c | c |
| | Scilly (St. Mary's) | c | cpid | bcidc | c |
| | Guernsey | oc | co | ocbcw | bccow |
| 6 | Pembroke | o | o | o | c |
| 7 | Holyhead | oeid | c | cmc | co |
| | Chester (Sealand) | oddmo | omdd | oid.m | obbcm |
| 8 | L'pool (Bidston) | fodo | did | id.o | cbc |
| 9 | Harrogate | bbc | bc | cbc | bcb |
| 10 | Spurn Head | cmc | cmf | f3o | ocbc |
| | Catterick | bfebc | bcb | bbc | bcbxb |
| | Tynemouth | bc | bc | oc | c,bo |
| 11 | Inchkeith | bcc | c | c | bc |
| | Leuchars | bvwb | bbw | cwm | cwmcd |
| 12 | Renfrew | c | croc | c | c |
| | Eskdalemuir | c | ocid | ccd.bc | bcb |
| 13A | Tiree | cid | cidid | c | cid |
| 13B | Stornoway | c | c | cir | ccd |
| 15 | Dalwhinnie | c | c | + | bc |
| | Aberdeen | bcbff | bcf3 | bc3.b | bwbc |
| | Wick | cbc | bc | bc | bc |
| 16 | Lerwick | odmc | coidm | coidm | ocd.m.bo |
| 17 | Blacksod Point | prc | prc | prc | prc |
| 18 | Malin Head | ce | cdbc | bcce | ce |
| | Aldergrove | od | od | obc | bcc |
| | Donaghadee | c | c | bc | bc |
| 19 | Birr Castle | coir | oc | ccd | ccd |
| 20 | Valentia Obsy. | cid | cidbcc | cd | crcd |
| | Roches Point | roc | c | c | c |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s$_o$, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s$_o$/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight: repetition of letters indicates continuity: thus.
R, heavy rain. r$_o$, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ⦶, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

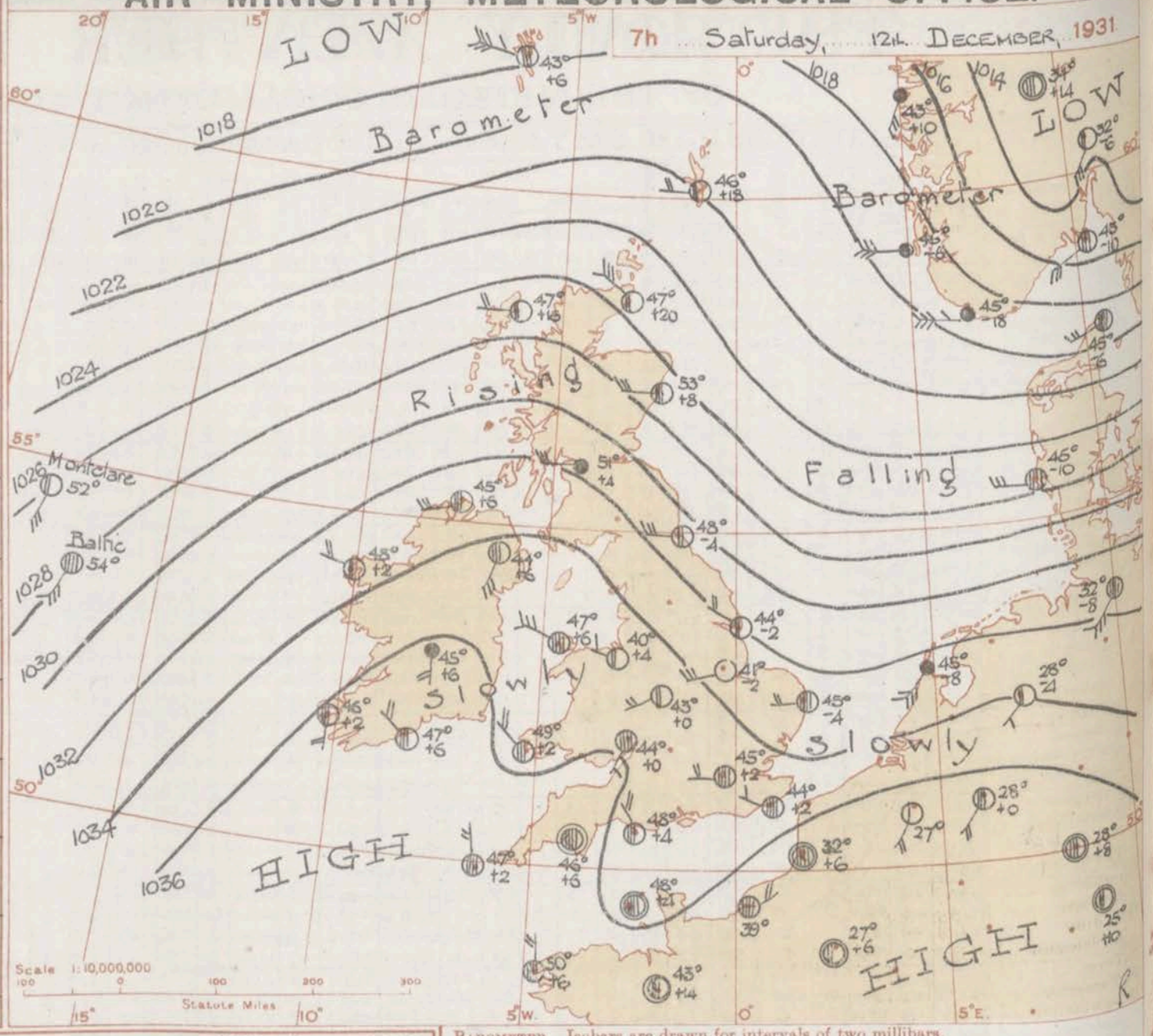
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for 11th December 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 10th to 9h. 11th | Temperature. Max. 9h.—17h. 11th | Rainfall. Night. 17h. 10th to 9h. 11th | Rainfall. Day. 9h.—17h. 11th | Sunshine. Sunrise to Sunset. 11th |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | o | o | 46 | 50 | - | - | 0·0 |
| | Bournemouth | oco | o | 48 | 52 | - | - | 0·1 |
| | Ventnor ... | oj | obcj | 48 | 51 | - | - | 0·0 |
| | Southsea ... | o | o | 48 | 52 | - | - | 0·0 |
| | Bognor Regis | oc | co | 46 | 51 | - | - | 0·0 |
| | Littlehampton | c | c | 44 | 51 | Trace | - | 0·0 |
| | Worthing ... | oc | c | 45 | 51 | Trace | - | 0·0 |
| | Brighton ... | coc | oc | 45 | 52 | - | - | 0·0 |
| | Eastbourne† | o | oco | 48 | 51 | - | Trace | 0·0 |
| | Hastings† ... | oc | co | 47 | 51 | 0·2 | - | 0·1 |
| | Folkestone ... | oco | oco | 45 | 50 | - | 0·2 | 0·4 |
| | Dover... ... | odbcc | co | 47 | 49 | Trace | Trace | 0·1 |
| | Deal ... ... | oco | co | 46 | 50 | 1 | - | 0·1 |
| | Ramsgate ... | oido | o | 47 | 50 | - | 0·2 | 0·0 |
| | Margate ... | c | c | 46 | 50 | - | - | 0·0 |
| 2 | Southend ... | cfbc | od | 44 | 50 | 0·2 | 0·1 | 0·4 |
| | Maldon ... | oc | cpo | 46 | 50 | - | Trace | 0·4 |
| | Clacton-on-Sea | bcepd | cpd | 44 | 50 | - | 0·2 | 0·2 |
| | Dovercourt ... | dbc | bcocd | 45 | 49 | Trace | Trace | 0·3 |
| | Lowestoft ... | cid | cido | 45 | 46 | 0·1 | 0·2 | 0·0 |
| | Skegness ... | om | om | 46 | 54 | Trace | - | 0·0 |
| | Mablethorpe | co | om | 44 | 50 | Trace | - | 0·0 |
| | Cleethorpes ... | wsfs | c | 44 | 50 | - | - | 0·0 |
| 3 | Leamington S. | o | co | 49 | 51 | - | - | 0·2 |
| 4 | Cheltenham† | om.id | om.id | 48 | 49 | Trace | 0·5 | 0·0 |
| 5 | Bath ... ... | c | c | 50 | 51 | - | - | 0·0 |
| | Weymouth ... | c | c | 50 | 51 | - | - | 0·0 |
| | Jersey ... | bc | c | 51 | 54 | Trace | - | 0·0 |
| | Torquay ... | oc | co | 50 | 51 | Trace | - | 0·0 |
| | Penzance ... | og | oc | 49 | 50 | 1 | - | 0·0 |
| | St. Ives ... | o | o | 48 | 53 | Trace | - | 0·0 |
| | Bude ... ... | o | o | 48 | 51 | - | - | 0·0 |
| | Ilfracombe ... | o | o | 49 | 51 | - | - | 0·0 |
| 6 | Aberystwyth | oid.c | c | 47 | 47 | 1 | - | 0·0 |
| 7 | Llandudno ... | oid.o | od.o | 47 | 48 | 0·3 | Trace | 0·0 |
| | Colwyn Bay... | odo | o | 46 | 47 | 0·5 | 0·3 | 0·0 |
| | Rhyl ... ... | oido | o | 47 | 49 | 0·4 | 0·1 | 0·0 |
| 8 | Wallasey ... | o | ir | 47 | 48 | 0·3 | 1 | 0·0 |
| | Southport‖ ... | od | d | 47 | 48 | 0·2 | 1 | 0·0 |
| | Blackpool ... | od | od | 48 | 48 | 0·5 | 0·4 | 0·0 |
| | Morecambe ... | dpc | cddco | 47 | 47 | Trace | 0·3 | 0·0 |
| 9 | Ilkley... ... | bc | bcco | 45 | 50 | Trace | - | 2·0 |
| 10 | Berwick-on-T. | b | bcb | 44 | 50 | - | - | 4·6 |
| 11 | Dunbar ... | bcf | bcm | 45 | 50 | Trace | - | 3·0 |
| 12 | Douglas ... | oido | cido | 45 | 47 | Trace | Trace | 0·0 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

# AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm, - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◐ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 12th Dec., 1931.

| Districts. | Forecasts |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands<br>4. W. Midlands<br>5. S.W. England<br>6. South Wales<br>7. North Wales<br>8. N.W. England<br>9. N. Midlands<br>10. N.E. England<br>11. S.E. Scotland | Quiet and mainly cloudy, occasional drizzle locally; mild during day; fog locally at night and in the early morning. |
| 12. S.W. Scotland & Isle of Man<br>13. A. W. Scotld. B. N.W. Scotland. | Moderate southwesterly or variable winds; mainly cloudy, occasional drizzle locally; mild during day; fog locally at night and in the early morning. |
| 14. Mid-Scotland | As 1 - 11. |
| 15. N.E. Scotland<br>16. Orkneys and Shetlands. | Moderate westerly winds; mainly cloudy, occasional drizzle; mild. |
| 17. N.W. Ireland | As 12 - 13B. |
| 18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland | As 1 - 11. |

### GENERAL INFERENCE.

An anticyclone stretching from the Bay of Biscay to Central Germany dominates the British Isles. Weather will be quiet, mild and mainly cloudy generally with occasional drizzle locally and fog in many places at night and in the early morning.

### FURTHER OUTLOOK.

Quiet and mainly cloudy; considerable fog locally.

Forecasts issued at

G. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## EXPLANATION OF CHART.

BAROMETRE. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 12th December 1931.

No. 25587

OBSERVATIONS at 1 hr. G.M.T. 12th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0–12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0–9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0–10 (12) | Cloud Amount Total 0–10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1035·0 | 0 | W'N | 1 | m/f | 46 | 95 | 4 | 5 | - | - | 10 | 10 | 800 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot, (S'thmtn) | 8 | 1034·9 | +2 | WNW | 2 | bc | 46 | 95 | 6 | 5 | - | - | 4-6 | 4-6 | 4000 |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1034·9 | +4 | SW | 1 | o | 44 | 85 | 5 | 5 | - | - | 10 | 10 | 800 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1033·3 | 0 | W'S | 1 | f | 45 | 95 | 2 | | | | 10 | 10 | <150 |
| | Cranwell | 240 | 1034·1 | 0 | W'S | 3 | c | 45 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1036·3 | 0 | NNW | 2 | c | 49 | 85 | 6 | 4 | 2 | - | 7-8 | 10 | 1500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1036·5 | 0 | N | 1 | c | 47 | 95 | 8 | 5 | 2 | - | 4-6 | 10 | 4000 |
| | Scilly (St. Mary's) | 163 | 1037·2 | +2 | N | 3 | c | 46 | 95 | 7 | 5 | - | - | 7-8 | 7-8 | 4000 |
| | Guernsey | 175 | 1035·0 | +4 | - | 0 | bc | 48 | 95 | 8 | 8 | - | - | 4-6 | 4-6 | 2500 |
| 6 | Pembroke | 142 | 1036·3 | 0 | - | 0 | o | 48 | 95 | 7 | 5 | - | - | 10 | 10 | 4000 |
| 7 | Holyhead | 26 | 1035·0 | 0 | W | 3 | c | 49 | 75 | 8 | 5 | - | - | 10 | 10 | 2800 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1032·9 | 0 | NWW | 4 | c | 45 | 95 | 6 | - | 2 | - | 0 | 10 | - |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1031·4 | 0 | W | 2 | c | 47 | 85 | 7 | 6 | · | - | 7-8 | 7-8 | 1500 |
| 11 | Inchkeith | 190 | 1029·9 | 0 | SW | 4 | c | 47 | 95 | 8 | 5 | - | · | 7-8 | 7-8 | 4000 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1023·9 | +4 | W | 5 | c/r₀ | 52 | 95 | 7 | 6 | 2 | - | 7-8 | 10 | 2500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1022·1 | -6 | WSW | 4 | bc | 51 | 85 | 8 | 8 | 1 | - | 4-6 | 4-6 | 2500 |
| 16 | Lerwick | 54 | 1018·5 | +4 | W | 3 | id₀ | 49 | 95 | 6 | 6 | - | - | 10 | 10 | 800 |
| 17 | Blacksod Point | 18 | 1033·6 | +2 | WNW | 4 | bc | 49 | 95 | 7 | 3 | - | - | 2-3 | 2-3 | 800 |
| 18 | Malin Head | 52 | 1031·6 | 0 | W | 3 | c | 51 | 95 | 7 | 5 | 1 | - | 7-8 | 10 | 2500 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1035·4 | 0 | WSW | 1 | c | 47 | 95 | 6 | 6 | - | - | 7-8 | 7-8 | 1500 |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

OBSERVATIONS at 7 hr. G.M.T. 12th December

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0–12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0–9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0–10 (26) | Cloud Amount Total 0–10 (27) | Height of Base (feet) (28) | State of Ground 0–9 (29) | Sea 0–9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1035·8 | 0 | W | 1 | c | 46 | 95 | 4 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| Croydon | 1035·5 | +2 | W | 2 | o | 45 | 95 | 5 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| S. Farnborough | 1035·6 | +4 | W | 1 | d₀d₀ | 45 | 95 | 5 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| Winchester | 1036·3 | +4 | NW | 2 | c | 44 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| Boscombe Down | 1036·1 | +6 | NW | 1 | cd₀ | 43 | 95 | 6 | 5 | - | - | 10 | 10 | 450 | 1 | * |
| Calshot, (S'thmtn) | 1035·9 | +6 | NW | 2 | c | 46 | 95 | 6 | 5 | - | - | 10 | 10 | 2500 | 2 | 1 |
| Dungeness | * | * | NW | 1 | cr₀ | * | * | 6 | 6 | - | * | 9 | 9 | 1500 | * | 0 |
| Lympne | 1035·2 | +2 | WNW | 1 | c/d₀ | 44 | 95 | 5 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| Shoeburyness | 1035·3 | 0 | WNW | 1 | c | 46 | 95 | 5 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| Felixstowe | 1034·8 | +2 | W'N | 2 | d₀d₀ | 46 | 95 | 3 | 6 | - | - | 10 | 10 | 4000 | 1 | 1 |
| Gorleston | 1033·4 | -4 | W | 2 | o | 45 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 | 0 | 2 |
| Cranwell | 1033·9 | -2 | WSW | 3 | b | 41 | 95 | 6 | - | - | - | 0 | 0 | - | 1 | * |
| Birmingham | 1035·4 | 0 | WSW | 2 | bc | 43 | 85 | 7 | - | 7 | - | 0 | 2-3 | - | 1 | * |
| Upper Heyford | 1036·1 | +2 | W'S | 2 | d₀d₀ | 42 | 95 | 5 | 6 | · | - | 10 | 10 | 800 | 1 | * |
| Leafield | 1035·7 | +6 | WNW | 2 | cd | 41 | 85 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| Ross-on-Wye | 1035·9 | 0 | SW | 1 | o | 44 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Portland Bill | 1036·8 | +4 | N'W | 2 | c | 48 | 85 | 8 | 4 | 2 | - | 4-6 | 10 | 2500 | 0 | 2 |
| Plymouth | 1037·1 | +6 | - | 0 | o | 46 | 85 | 7 | 5 | - | - | 10 | 10 | 800 | 1 | 0 |
| Falmouth | 1037·0 | +2 | - | 0 | c | 47 | 95 | 8 | 5 | 2 | - | 4-6 | 10 | 4000 | 0 | 0 |
| Scilly (St. Mary's) | 1037·5 | +2 | NNW | 2 | c | 47 | 85 | 7 | 5 | - | - | 10 | 10 | 4000 | 1 | 2 |
| Guernsey | 1035·4 | -4 | - | 0 | c | 48 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | 1 |
| Pembroke | 1035·4 | +2 | NW | 2 | c | 49 | 95 | 8 | 4 | 6 | - | 4-6 | 9 | 4000 | 0 | 1 |
| Holyhead | 1035·5 | +6 | NNW | 4 | o | 47 | 95 | 8 | 5 | - | - | 10 | 10 | 800 | 1 | 2 |
| Chester (Sealand) | 1035·3 | +4 | W'N | 1 | bc | 40 | 95 | 6 | 5 | - | - | 4-6 | 4-6 | 4000 | 1 | * |
| L'pool (Bidston) | 1034·7 | 0 | W'N | 4 | bc | 47 | 95 | 8 | 5 | - | - | 4-6 | 4-6 | 2500 | 0 | * |
| Harrogate | 1032·2 | -6 | WSW | 4 | b | 43 | 85 | 7 | - | 4 | - | 0 | Tr | - | 1 | * |
| Spurn Head | 1032·0 | -2 | W'N | 2 | bc | 44 | 95 | 7 | - | 1 | - | 0 | 2-3 | - | 0 | 2 |
| Catterick | 1032·2 | -2 | NNW | 2 | bc | 44 | 95 | 7 | 5 | - | - | 2-3 | 2-3 | 2500 | 1 | * |
| Tynemouth | 1030·1 | -4 | W | 3 | bc | 48 | 95 | 7 | 2 | - | - | 2-3 | 2-3 | 2500 | 1 | 2 |
| Inchkeith | 1029·6 | +4 | WSW | 5 | bc | 50 | 95 | 8 | 5 | 3 | - | 2-3 | 4-6 | 2500 | 0 | 3 |
| Leuchars | 1028·4 | +8 | SW | 4 | b | 49 | 95 | 8 | 4 | 5 | - | Tr | 1 | 4000 | 1 | * |
| Renfrew | 1031·5 | +4 | W | 3 | pr | 51 | 95 | 7 | 8 | 2 | - | 7-8 | 10 | 1500 | 1 | * |
| Eskdalemuir | 1031·0 | -6 | W | 3 | b | 48 | 75 | 8 | 5 | - | - | 1 | 1 | 1500 | 1 | * |
| Tiree | 1030·8 | +10 | WSW | 5 | c | 51 | 95 | 6 | 5 | 2 | - | 4-6 | 10 | 1500 | 1 | 3 |
| Stornoway | 1026·9 | +16 | W | 2 | bc | 47 | 95 | 7 | 5 | - | - | 4-6 | 4-6 | 2500 | 1 | 2 |
| Dalwhinnie | 1029·5 | +6 | W | 3 | bc | 49 | 85 | 7 | 4 | - | - | 4-6 | 4-6 | 1500 | 0 | * |
| Aberdeen | 1026·5 | +8 | W'S | 3 | c | 53 | 75 | 7 | 5 | 3 | - | 4-6 | 7-8 | 4000 | 1 | 1 |
| Wick | 1024·2 | +20 | NW | 4 | bc | 47 | 95 | 8 | 8 | - | 8 | 4-6 | 4-6 | 1500 | 1 | 3 |
| Lerwick | 1021·9 | +18 | W | 2 | bc | 46 | 85 | 7 | 8 | - | - | 4-6 | 4-6 | 1500 | 0 | * |
| Blacksod Point | 1033·4 | +2 | WNW | 2 | bc | 48 | 95 | 7 | 3 | - | - | 4-6 | 4-6 | 450 | 1 | 3 |
| Malin Head | 1033·6 | +6 | WSW | 3 | c | 49 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 0 | 2 |
| Aldergrove | 1035·1 | +6 | SSW | 3 | c | 44 | 95 | 6 | 5 | - | - | 9+ | 9+ | 450 | 1 | * |
| Donaghadee | 1033·9 | +8 | W'S | 2 | bc | 45 | 95 | 7 | 5 | - | - | 2-3 | 2-3 | 2500 | 0 | 1 |
| Birr Castle | 1036·5 | +6 | S | 2 | cd₀ | 45 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| Valentia Obsy.† | 1037·0 | +2 | S | 2 | c | 46 | 95 | 8 | 5 | - | - | 7-8 | 7-8 | 800 | 1 | * |
| Roches Point | 1037·8 | +6 | NW | 2 | c | 47 | 95 | 8 | 5 | - | - | 9 | 9 | 1500 | 0 | 2 |

PAST 24 HOURS.

| Stations | Temperature Max. Day 7h–18h °F. (31) | Temperature Min. Night 18h–7h °F (32) | Min. on Grass °F. (33) | Rainfall Day 7h–18h mm. (34) | Rainfall Night 18h–7h mm. (35) | Sunshine 11½ Hrs. (36) |
|---|---|---|---|---|---|---|
| London (Kew) | 51 | 46 | 42 | - | - | 0·0 |
| Croydon | 51 | 45 | 44 | - | Tr | 0·0 |
| S. Farnborough | 51 | 44 | 39 | - | Tr | 0·0 |
| Winchester | 51 | 44 | 42 | - | - | 0·0 |
| Boscombe Down | 50 | 43 | 42 | - | Tr | * |
| Calshot, (S'thmtn) | 51 | 45 | 42 | - | Tr | 0·1 |
| Dungeness | 50 | 44 | * | Tr | Tr | * |
| Lympne | 48 | 42 | 41 | 0.2 | 0·1 | 0·2 |
| Shoeburyness | 51 | 43 | 42 | Tr | Tr | 0·5 |
| Felixstowe | 49 | 43 | 43 | 0.2 | Tr | 0·0 |
| Gorleston | 49 | 43 | 42 | 1 | - | 0·0 |
| Cranwell | 49 | 41 | 38 | - | - | 0·0 |
| Birmingham | 48 | 42 | 38 | Tr | 0·1 | 0·0 |
| Upper Heyford | 50 | 42 | 41 | - | Tr | * |
| Leafield | 49 | 41 | 40 | - | 0·2 | 0·0 |
| Ross-on-Wye | 49 | 44 | 42 | 0.4 | Tr | 0·0 |
| Portland Bill | 51 | 47 | * | - | - | * |
| Plymouth | 50 | 46 | 43 | - | - | 0·0 |
| Falmouth | 50 | 47 | * | - | - | 0·0 |
| Scilly (St. Mary's) | 49 | 45 | * | 0.3 | 1 | 0·7 |
| Guernsey | 53 | 45 | 34 | - | - | 0·0 |
| Pembroke | 48 | 47 | * | - | - | 0·0 |
| Holyhead | 49 | 47 | 44 | Tr | - | 0·0 |
| Chester (Sealand) | 49 | 38 | 29 | 0.2 | Tr | 0·0 |
| L'pool (Bidston) | 47 | 44 | 41 | 1 | Tr | 0·0 |
| Harrogate | 51 | 41 | 33 | - | - | 2·7 |
| Spurn Head | 48 | 43 | * | - | - | 0·0 |
| Catterick | 51 | 38 | 28 | - | Tr | * |
| Tynemouth | 52 | 45 | 39 | - | - | * |
| Inchkeith | 49 | 46 | 44 | - | - | 0·0 |
| Leuchars | 51 | 43 | 38 | - | 0·2 | 6·0 |
| Renfrew | 50 | 48 | 47 | Tr | Tr | 0·0 |
| Eskdalemuir | 47 | 42 | 40 | Tr | - | 0·0 |
| Tiree | 50 | 50 | 48 | 0·5 | 0·2 | 0·1 |
| Stornoway | 52 | 47 | * | Tr | 1 | 0·0 |
| Dalwhinnie | 49 | 44 | 40 | - | - | 2·8 |
| Aberdeen | 50 | 36 | 29 | - | Tr | 5·4 |
| Wick | 52 | 47 | * | - | - | * |
| Lerwick | 50 | 45 | * | 1 | 0·3 | 0·0 |
| Blacksod Point | 52 | 47 | * | 0.2 | 0·5 | * |
| Malin Head | 50 | 47 | * | Tr | - | 0·1 |
| Aldergrove | 46 | 44 | 39 | Tr | - | 0·0 |
| Donaghadee | 51 | 44 | * | - | - | * |
| Birr Castle | 48 | 43 | 31 | 0.3 | 0·4 | 0·0 |
| Valentia Obsy.† | 51 | 45 | 41 | 0.1 | 0·5 | 0·6 |
| Roches Point | 48 | 46 | * | 2 | - | * |

**LONDON OBSERVATIONS.**
Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| Station | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon | Weather Night | Temperature Day Max. °F. | Night Min. °F. | Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset, hrs. Yesterday | Humidity 15h. G.M.T. % Yesterday | Humidity 9h. G.M.T. % To-day | Visibility 9h. To-day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew | 18 | c3₀ | c3₀cm₀ | cm₀fcw | 51 | 46 | 42 | - | - | 0·0 | · | · | 6 |
| Croydon | 217 | om₀cm | omff | offwm | 51 | 45 | 44 | - | Tr | 0·0 | · | · | 4 |
| Greenwich (Royal Observatory) | 149 | om | om₀ | om₀fm | 51 | 46 | 43 | - | - | 0·0 | 87 | 84 | 5 |
| City (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0·0 | * | * | * |
| Westminster (St. James' Park) | 27 | * | * | * | 51 | 46 | 43 | - | - | 0·0 | 83 | 80 | * |
| Regents Pk. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | 0·0 | * | * | * |
| Camden Square | 110 | oc | o | * | 50 | 45 | 43 | - | - | * | * | 87 | * |
| Kensington | 80 | omco | co | * | 51 | 46 | 41 | - | - | 0·0 | At 18h. 88 | 85 | * |
| Hampstead Observatory | 450 | o | c | * | 48 | 44 | 38 | 0·1 | - | 0·0 | | 90 | * |

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 12th

| | Max. | Time. | Min. | Time. |
|---|---|---|---|---|
| South Kensington | 1·3 | 22h. 11th | 0·3 | 4h. 12th |
| Kew Observatory | 1·3 | 23h. 11th | 0·3 | 12h. 11th |

**FOREIGN OBSERVATIONS.**

| Stations | 18h. G.M.T. 11th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 12th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris | 1032·7 | NNE | 2 | b | 39 | 1037·4 | - | 0 | bc | 27 | 50 | 27 | Tr | - |
| Brussels | | | | | | 1036·3 | SSW | 2 | bo | 27 | | 25 | | - |
| Berlin | 1031·0 | NW'N | 4 | c | 34 | 1032·3 | WSW | 2 | o | 28 | 34 | 27 | - | - |
| Zurich | 1032·3 | E | 1 | b | 37 | 1034·6 | E | 2 | bo | 25 | 39 | 23 | 0·1 | - |
| Rome | 1009·0 | N | 5 | o | 43 | 1011·9 | WNW | 2 | c | 48 | | 36 | - | - |

## EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13–18 | 9 | 47–54 |
| 1 | 1-3 | 5 | 19–24 | 10 | 55–63 |
| 2 | 4-7 | 6 | 25–31 | 11 | 64–75 |
| 3 | 8–12 | 7 | 32–38 | 12 | 75 |
| | | 8 | 39–46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.**—Code for surface visibility.
Objects not visible at
0 Dense fog 55 yards.
1 Thick fog 220 „
2 Fog 550 „
3 Moderate fog 1,100 „
4 Mist or haze 1¼ miles.
5 Poor visibility 2½ „
6 Moderate „ 6¼ „
7 Good „ 12½ „
8 Very good „ 31 „
9 Excellent „ beyond 31m.

**COLUMN 30.**—Code for State of Sea.
0 Calm. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 13th December 1931.

No. 25588

| District | Stations. (For heights see p. 4.) | OBSERVATIONS at 13h. G.M.T. 12th December: Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | °F. Temp. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) | OBSERVATIONS at 18h. G.M.T. 12th December: Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | °F. Temp. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) | PAST 24 HOURS. Weather 7h.–13h. 12th (37) | 13h.–18h. 12th (38) | 18h. 12th to 1h. 13th (39) | 1h.–7h. 13th (40) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1036.2 | -4 | W | 2 | c | 46 | 75 | 6 | 5 | 2 | - | 9 | 10 | 5700 | 1036.3 | +4 | WSW | 1 | c | 46 | 85 | 6 | 5 | - | - | 9 | 9 | 4000 | 1 | • | c3o | c3ocmo | cmo | omdo |
| | Croydon | 1036.0 | -2 | WNW | 2 | c/d | 45 | 85 | 4 | 5 | 2 | - | 7-8 | 10 | 2600 | 1036.0 | +2 | W'S | 1 | c | 44 | 85 | 5 | 5 | - | - | 10 | 10 | 2600 | 1 | • | ocmido | cmmo | como | oddom |
| | S. Farnborough | 1036.5 | -2 | WNW | 1 | c | 44 | 86 | 7 | 5 | - | - | 10 | 10 | 1500 | 1036.6 | +6 | WNW | 1 | o | 44 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | • | oidoc | co | o | odo |
| | Winchester | 1036.7 | -6 | NW | 1 | c | 44 | 85 | 7 | 5 | - | - | 10 | 10 | 2600 | 1036.7 | +8 | - | 0 | c | 44 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | • | cdomo | cmo | cmo | cmoom |
| | Boscombe Down | 1036.6 | -2 | NWW | 2 | o | 45 | 86 | 7 | 5 | - | - | 10 | 10 | 2600 | 1036.5 | +4 | NW | 1 | o | 45 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | • | oido | omo | omo | omo |
| | Calshot, S'thmtn | 1036.8 | +2 | NW | 2 | c | 45 | 86 | 6 | 5 | - | - | 10 | 10 | 2600 | 1036.5 | +4 | WSW | 1 | c | 45 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | 0 | cmo | cmoc | cmo | cmo |
| | Dungeness | * | * | NW | 1 | c | * | * | 5 | 5 | - | - | 9+ | 9+ | 1500 | * | * | NW | 1 | c | * | * | 5 | 5 | - | * | 9+ | 9+ | 1500 | * | 0 | o | o | * | o |
| | Lympne | 1035.7 | -2 | NNW | 3 | o | 45 | 95 | 4 | 5 | - | - | 10 | 10 | 800 | 1036.1 | +4 | NW | 2 | o | 43 | 96 | 4 | 5 | - | - | 10 | 10 | 1500 | 1 | • | ofm | cmoom | oidom | oidofe |
| 2 | Shoeburyness | 1035.8 | 0 | WNW | 1 | o | 46 | 85 | 5 | 5 | - | - | 10 | 10 | 1500 | 1035.6 | 0 | WSW | 2 | o | 46 | 85 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | • | omo | omo | omo | oidomo |
| | Felixstowe | 1034.8 | -4 | W | 3 | c | 47 | 85 | 6 | 5 | - | - | 10 | 10 | 4000 | 1034.8 | 0 | W | 1 | c | 45 | 95 | 6 | 5 | - | - | 10 | 10 | 2500 | 0 | 1 | cmo | cbcmo | cmo | coddom |
| | Gorleston | 1033.8 | -4 | WN | 2 | bc | 46 | 95 | 6 | 5 | - | - | 4-6 | 4-6 | 1500 | 1033.9 | 0 | WNW | 2 | o | 46 | 85 | 5 | 5 | - | - | 10 | 10 | 1500 | 0 | 2 | omm | bcmo | omomo | oido o |
| | Cranwell | 1034.4 | 0 | W | 3 | bc | 47 | 85 | 4 | 7 | 3 | - | 1 | 2-3 | 4000 | 1034.6 | +4 | NW | 4 | b | 45 | 95 | 5 | - | - | - | 0 | 0 | - | 0 | • | bmobcm | bm | bcmo | cmo |
| 3 | Birmingham | 1035.9 | +4 | NNW | 4 | bc | 47 | 85 | 4 | 6 | 6 | - | 2-3 | 4-6 | 1600 | 1035.9 | +2 | NNW | 3 | c | 45 | 85 | 5 | 5 | - | - | 9 | 9 | 800 | 1 | • | bcm | bcc | c | co |
| | Upper Heyford | 1036.6 | 0 | SWW | 2 | c | 47 | 85 | 8 | 5 | - | - | 9+ | 9+ | 2600 | 1036.3 | +6 | ENE | 2 | o | 46 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | • | cdo | cmo | cmo | cmow |
| | Leafield | 1035.8 | 0 | W | 2 | c | 46 | 85 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1036.1 | +6 | NW | 3 | c | 45 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | • | c | c | c | c |
| 4 | Ross-on-Wye | 1036.0 | +4 | W | 2 | c | 49 | 75 | 9 | 5 | - | - | 9+ | 9+ | 4000 | 1036.3 | 0 | NNW | 2 | o | 48 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | • | cbrcv | co | omo | o |
| 5 | Portland Bill | 1036.8 | +2 | NNW | 2 | c | 46 | 75 | 7 | 4 | 2 | - | 7-8 | 10 | 2500 | 1036.3 | +2 | - | 0 | c | 46 | 75 | 8 | 4 | 2 | - | 7-8 | 10 | 2500 | 0 | 1 | c | c | c | c |
| | Plymouth | 1037.4 | -4 | N | 3 | o | 48 | 76 | 6 | 5 | - | - | 10 | 10 | 1600 | 1037.4 | +6 | - | 0 | o | 47 | 75 | 5 | 5 | - | - | 10 | 10 | 800 | 1 | 0 | omo | omo | omo | omo |
| | Falmouth | 1037.4 | +4 | - | 0 | c | 48 | 85 | 8 | 5 | 2 | - | 4-6 | 10 | 4000 | 1036.9 | 0 | - | 0 | c | 48 | 85 | 8 | 6 | 2 | - | 4-6 | 10 | 4000 | 0 | 0 | c | c | c | c |
| | Scilly (St. Mary's) | 1038.2 | -6 | NE | 2 | c | 48 | 86 | 8 | 5 | - | - | 9+ | 9+ | 4000 | 1037.6 | +2 | E | 2 | c | 47 | 75 | 8 | 5 | - | - | 10 | 10 | 4000 | 1 | 2 | c | c | c | c |
| | Guernsey | 1036.3 | -2 | NW | 2 | c | 50 | 85 | 7 | 8 | - | - | 10 | 10 | 2500 | 1036.1 | +4 | NWN | 1 | o | 48 | 86 | 8 | 5 | - | - | 10 | 10 | 2500 | 0 | 1 | oc | co | o | o |
| 6 | Pembroke | 1037.6 | +2 | NNW | 1 | c | 50 | 95 | 8 | 4 | 6 | - | 4-6 | 7-8 | 4000 | 1037.2 | +2 | NWN | 1 | bc | 47 | 96 | 7 | 5 | 1 | - | 2-3 | 2-3 | 2600 | 0 | 1 | c | bc | c | c |
| 7 | Holyhead | 1036.8 | +4 | W | 2 | c | 48 | 95 | 8 | 5 | - | - | 9+ | 9+ | 1500 | 1036.4 | +6 | W'S | 2 | c | 49 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | 0 | c | cbcc | c | c |
| | Chester (Sealand) | 1036.9 | +2 | WN | 3 | o | 48 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1036.9 | +4 | WNW | 2 | o | 46 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | • | como | do | o | o |
| 8 | L'pool (Bidston) | 1036.3 | +2 | WN | 4 | dodo | 47 | 95 Stet | 7 | 6 | - | - | 10 | 10 | 2500 | 1036.4 | 0 | WN | 4 | o | 46 | 85 | 8 | 5 | - | - | 10 | 10 | 2500 | 1 | • | cod. | doo | o | o |
| 9 | Harrogate | 1033.7 | 0 | WSW | 4 | b | 51 | 75 | 8 | - | 4 | - | 0 | Tr. | - | 1034.5 | +6 | WSW | 3 | b | 45 | 95 | 7 | - | - | - | 0 | 0 | - | 1 | • | b | b | bbcc | b |
| 10 | Spurn Head | 1032.6 | 0 | NW | 4 | c | 48 | 95 | 6 | 5 | 3 | 9 | 2-3 | 9 | 1500 | 1033.2 | +2 | NW | 4 | bc | 47 | 96 | 6 | 5 | - | - | 0 2-3 | 2-3 | <5700 | 0 | 2 | bcmzc | c3bc | bcco | oc |
| | Catterick | 1033.4 | +6 | W | 3 | bc | 55 | 75 | 8 | 7 | - | - | 2-3 | 2-3 | 2500 | 1034.1 | +8 | NW | 2 | b | 45 | 96 | 7 | 4 | - | - | Tr. | Tr. | 2500 | 1 | • | bbc | bcbw | bw | bx |
| | Tynemouth | 1031.5 | +4 | W | 3 | b | 53 | 85 | 7 | - | - | 1 | 0 | 1 | - | 1032.9 | +6 | W | 2 | bc | 49 | 85 | 7 | 5 | - | - | 4-6 | 4-6 | 1500 | 1 | 2 | bc | bc | bc | o |
| 11 | Inchkeith | 1031.7 | +6 | SW | 4 | c | 50 | 95 | 6 | 5 | 8 | - | 7-8 | 9 | 2500 | 1032.1 | -2 | WSW | 4 | bc | 48 | 85 | 7 | 5 | 4 | - | 4-6 | 4-6 | 2500 | 0 | 3 | bcc | cbc | cbc | bcc |
| | Leuchars | 1030.3 | +4 | SW | 4 | b | 53 | 85 | 8 | 4 | - | - | 1 | 1 | 2500 | 1030.8 | +6 | SW | 3 | c | 48 | 85 | 7 | 4 | - | 2 | 7-8 | 7-8 | 4000 | 1 | • | bbcb | bbcw | c | cbcbw |
| 12 | Renfrew | 1033.2 | +10 | WSW | 3 | c | 51 | 85 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1033.0 | -2 | WSW | 4 | ido | 48 | 85 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | • | cproc | c | cid | cid |
| | Eskdalemuir | 1033.6 | 0 | WNW | 3 | c | 49 | 85 | 8 | 5 | - | - | 9+ | 9+ | 1500 | 1034.0 | +6 | SW | 5 | c | 44 | 85 | 8 | 5 | - | - | 9+ | 9+ | 1500 | 1 | • | bqc | c | c | c |
| 13A | Tiree | 1031.9 | 0 | SWW | 5 | iro | 49 | 95 | 6 | 9 | 5 | 8 | 9 | 10 | 450 | 1031.9 | +2 | SWW | 4 | dd | 49 | 95 | 6 | 6 | 1 | - | 7-8 | 9+ | 450 | 1 | 3 | c | cidiD | cidobcid | dodocd |
| 13B | Stornoway | 1027.3 | -4 | W | 4 | c | 51 | 95 | 8 | 5 | 2 | - | 7-8 | 10 | 1500 | 1027.5 | +6 | SW | 3 | c | 50 | 95 | 8 | 6 | 2 | - | 7-8 | 10 | 2500 | 1 | 2 | cido | c | cpdo | cido |
| 15 | Dalwhinnie | ? | +8 | WNW | 3 | iro | 47 | 95 | 8 | 4 | 5 | - | 4-6 | 10 | 800 | ? | +4 | NW | 3 | c | 45 | 85 | 6 | 4 | 6 | - | 4-6 | 7-8 | 800 | 1 | | ir | c | * | bc |
| | Aberdeen | 1028.8 | +8 | E | 1 | c/r | 48 | 95 | 7 | 6 | - | - | 9+ | 9+ | 1500 | 1028.4 | -2 | WSW | 3 | bc | 50 | 75 | 7 | - | 3 | 1 | 0 | 2-3 | - | 1 | 1 | bccro | cbcb | bbc | bcb |
| | Wick | 1026.9 | +8 | WSW | 2 | c | 46 | 95 | 8 | 8 | 3 | 9 | 4-6 | 7-8 | 2500 | 1026.6 | -2 | NW | 2 | dodo | 46 | 95 | 6 | 6 | - | - | 9+ | 9+ | 1500 | 1 | 2 | bcc | cdodmo | cdodcmo | cbc |
| 16 | Lerwick | 1022.3 | -6 | WNW | 2 | c/pr | 47 | 75 | 8 | 8 | 7 | - | 4-6 | 7-8 | 1500 | 1022.5 | 0 | WN | 3 | pc | 46 | 95 | 7 | 8 | - | - | 7-8 | 7-8 | 1500 | 1 | • | bccpro | cpro | cpc | coidm |
| 17 | Blacksod Point | 1035.0 | +2 | WSW | 3 | pr | 49 | 95 | 7 | 3 | - | - | 7-8 | 7-8 | 220 | 1034.8 | 0 | SW | 4 | c | 47 | 96 | 8 | 3 | - | - | 7-8 | 7-8 | 800 | 1 | 3 | prc | prc | prc | cq |
| 18 | Malin Head | 1033.8 | -2 | WSW | 3 | c | 48 | 95 | 7 | 8 | - | - | 9+ | 9+ | 1500 | 1033.6 | +2 | WSW | 3 | bc | 48 | 95 | 7 | 5 | - | - | 4-6 | 4-6 | 1500 | 0 | 2 | ce | cbcc | bccdomo | c |
| | Aldergrove | 1036.0 | 0 | SSW | 2 | d.do | 44 | 95 | 7 | 5 | - | - | 10 | 10 | 450 | 1035.5 | +2 | SWS | 2 | o | 45 | 95 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | • | cbccdo | oido | o | oido |
| | Donaghadee | 1035.6 | +6 | WSW | 2 | c | 45 | 96 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1035.3 | -2 | W | 1 | c | 45 | 85 | 7 | 5 | 2 | - | 4-6 | 7-8 | 2500 | 0 | 0 | bcc | c | c | c |
| 19 | Birr Castle | 1037.5 | 0 | SW | 1 | c | 46 | 96 | 8 | 5 | 2 | - | 9 | 10 | 2600 | 1037.0 | +2 | SW | 1 | c | 44 | 86 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 1 | • | crc | c | c | co |
| 20 | Valentia Obsy. | 1037.1 | -6 | SW | 2 | c/d | 47 | 95 | 8 | 5 | - | - | 10 | 10 | 1600 | 1036.4 | -6 | S'E | 3 | c | 45 | 95 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 | cidoc | c | c | cido |
| | Roches Point | 1038.2 | -4 | NW | 2 | c | 47 | 96 | 8 | 5 | - | - | 7-8 | 7-8 | 1500 | 1037.6 | -2 | W | 2 | c | 47 | 95 | 8 | 5 | - | - | 7-8 | 7-8 | 1500 | 0 | 2 | c | cbc | coidoc | c |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40.—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/so, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
so/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus, R, heavy rain. $r_o$, slight rain. rr, continuous rain.

<, less than (for cloud height).
⊕, Solar halo. ⌀, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "t r" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

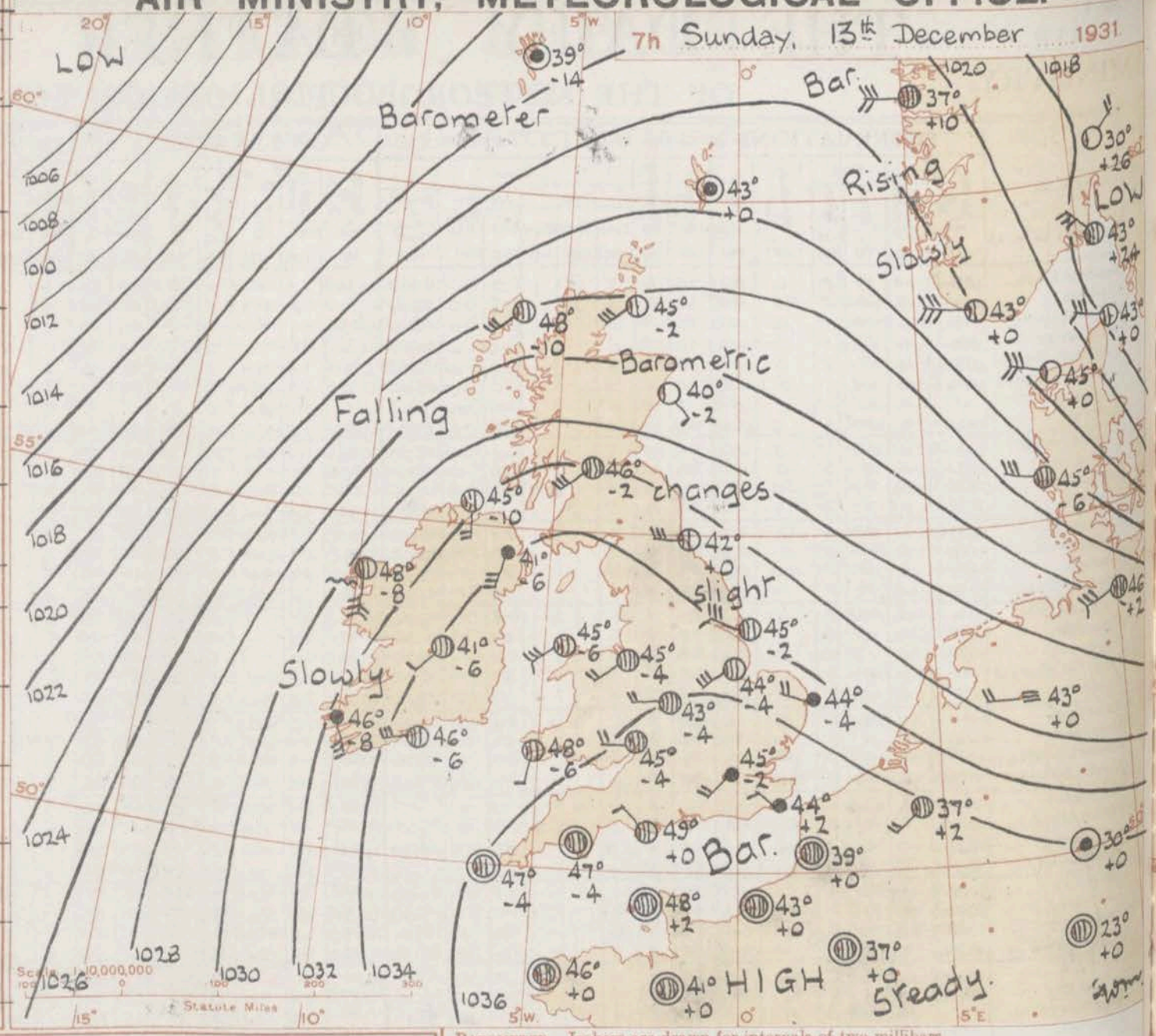
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for 12th December 1931

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 11th to 9h. 12th | Temperature. Max. 9h.—17h. 12th | Rainfall. Night. 17h. 11th to 9h. 12th | Rainfall. Day. 9h.—17h. 12th | Sunshine. Sunrise to Sunset. 11th |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | od | o | 44 | 46 | - | Trace | 0.0 |
| | Bournemouth | o | om | 44 | 46 | - | - | 0.0 |
| | Ventnor ... | o3 | o3 | 45 | 46 | - | - | 0.0 |
| | Southsea ... | o | o | 44 | 46 | - | - | 0.0 |
| | Bognor Regis | o | o | 45 | 46 | - | - | 0.0 |
| | Littlehampton | c | c | 45 | 46 | - | - | 0.0 |
| | Worthing ... | c | co | 46 | 48 | - | - | 0.0 |
| | Brighton ... | o | om | 46 | 48 | - | - | 0.0 |
| | Eastbourne† | o | o | 45 | 48 | - | - | 0.0 |
| | Hastings† ... | omo | oco | 45 | 48 | Trace | - | 0.0 |
| | Folkestone ... | of | of | 43 | 48 | - | - | 0.0 |
| | Dover... ... | ofm | mo | 45 | 48 | - | - | 0.0 |
| | Deal ... ... | mom | o | 44 | 47 | - | - | 0.0 |
| | Ramsgate ... | of | ofm | 44 | 47 | - | - | 0.0 |
| | Margate ... | cf | cmd | 44 | 47 | - | Trace | 0.0 |
| 2 | Southend ... | ofom | omof | 45 | 46 | 0.1 | - | 0.0 |
| | Maldon ... | mo | o | 45 | 47 | - | - | 0.0 |
| | Clacton-on-Sea | c | co | 45 | 46 | - | - | 0.0 |
| | Dovercourt ... | doc | oc | 44 | 47 | Trace | - | 0.0 |
| | Lowestoft ... | ogobe | bbe | 43 | 46 | 0.2 | - | 1.6 |
| | Skegness ... | fobc | becmo | 40 | 50 | Trace | - | 4.8 |
| | Mablethorpe | bbe | bbem | 37 | 51 | - | - | 5.7 |
| | Cleethorpes ... | bmbc | be | 40 | 51 | - | - | 3.6 |
| 3 | Leamington S. | cbe | bcco | 40 | 49 | - | - | 1.4 |
| 4 | Cheltenham† | cmbcc | com. | 42 | 48 | Trace | - | 0.6 |
| 5 | Bath ... ... | c | c | 45 | 49 | - | - | 0.0 |
| | Weymouth ... | oc | c | 45 | 47 | - | - | 0.0 |
| | Jersey ... | fc | c | 45 | 51 | - | - | 0.0 |
| | Torquay ... | o | om | 45 | 48 | - | - | 0.0 |
| | Penzance ... | o | oc | 47 | 49 | - | - | 0.0 |
| | St. Ives ... | o | o | 46 | 49 | - | - | 0.0 |
| | Bude ... ... | c | cbem | 47 | 52 | - | - | 0.7 |
| | Ilfracombe ... | ocbc | bcc | 46 | 51 | - | - | 1.8 |
| 6 | Aberystwyth | c | c | 45 | 48 | - | - | 0.1 |
| 7 | Llandudno ... | c | dcbcc | 46 | 48 | - | Trace | 0.0 |
| | Colwyn Bay... | odo | obco | 45 | 47 | - | Trace | 0.0 |
| | Rhyl ... ... | o | c | 42 | 49 | - | - | 0.0 |
| 8 | Wallasey ... | c | c | 43 | 48 | - | - | 0.0 |
| | Southport‖ ... | oco | oco | 45 | 49 | 0.1 | - | 0.0 |
| | Blackpool ... | o | o | 45 | 49 | 0.3 | - | 0.0 |
| | Morecambe ... | dfc | c | 45 | 48 | 1 | - | 0.0 |
| 9 | Ilkley... ... | cbc | c | 40 | 51 | - | - | 1.0 |
| 10 | Berwick-on-T. | b | bc | 44 | 53 | - | - | 5.8 |
| 11 | Dunbar ... | bcm. | bc | 46 | 51 | - | - | 4.0 |
| 12 | Douglas ... | cbc | co | 45 | 50 | - | - | 2.0 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

# AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ⁼ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 13th Dec, 1931.

| Districts. | Forecasts |
|---|---|
| 1. S.E. England | Wind variable, light; cloudy, occasional slight drizzle locally; rather mild. |
| 2. E. England... | |
| 3. E. Midlands | Westerly wind, backing southwest. light or moderate; cloudy, occasional slight drizzle in places; some mist; rather mild. |
| 4. W. Midlands | |
| 5. S.W. England | |
| 6. South Wales | Light variable to moderate southerly wind; mainly cloudy; moderate temperature. |
| 7. North Wales | |
| 8. N.W. England | Wind southwest or south, moderate to fresh; cloudy, occasional local drizzle; rather mild. |
| 9. N. Midlands | |
| 10. N.E. England | Wind southwest, moderate or fresh; fair at first, perhaps occasional drizzle later; mild. |
| 11. S.E. Scotland | |
| 12. S.W. Scotland & Isle of Man | Wind south or southwest, moderate to fresh or strong, cloudy, intermittent rain or drizzle; mild. |
| 13. A. W. Scotld. B. N.W. Scotland. | |
| 14. Mid-Scotland | |
| 15. N.E. Scotland | As 9 - 11. |
| 16. Orkneys and Shetlands. | Wind southwest, moderate, freshening; dull, occasional rain or drizzle; mild. |
| 17. N.W. Ireland | As 12 - 14. |
| 18. N.E. Ireland | |
| 19. S.E. Ireland | As 7 - 8. |
| 20. S.W. Ireland | |

## GENERAL INFERENCE.

The anticyclone over France and Southern England is moving slowly eastward and a depression off S.W. Iceland will move east or northeast. Winds will increase to strong from the south or southwest on the west and northwest coasts and weather will be mainly cloudy with some rain in the west and occasional drizzle in the South.

## FURTHER OUTLOOK.

Southwesterly winds, strong at times in the northwest; quiet, with local fog in the southeast.

Forecasts issued at 1030 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 13th December 1931.

No. 25588

### OBSERVATIONS at 1 hr. G.M.T. 13th December

| Division | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1036·9 | 0 | NNW | 1 | 0 | 45 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot, (S'thmtn) | 8 | 1036·8 | -2 | NW'N | 2 | C | 46 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1036·4 | +4 | NNW | 2 | id. | 43 | 95 | 5/6 | 6 | - | - | 10 | 10 | 1500 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1034·9 | +2 | NW | 3 | 0 | 43 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 |
| | Cranwell | 240 | 1035·8 | 0 | WSW | 1 | C | 44 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1036·8 | 0 | N | 1 | C | 47 | 85 | 7 | 4 | 2 | - | 7-8 | 10 | 2500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1037·7 | -2 | SE'E | 1 | C | 48 | 65 | 8 | 5 | 2 | - | 7-8 | 10 | 4000 |
| | Scilly (St. Mary's) | 163 | 1037·1 | -4 | E | 1 | C | 48 | 85 | 8 | 5 | - | - | 10 | 10 | 4000 |
| | Guernsey | 175 | 1036·2 | 0 | - | 0 | 0 | 47 | 85 | 8 | 5 | - | - | 10 | 10 | 2500 |
| 6 | Pembroke | 142 | 1036·5 | 0 | - | 0 | C | 48 | 95 | 8 | 5 | - | - | 10 | 10 | 4000 |
| 7 | Holyhead | 26 | 1036·1 | -2 | SW | 3 | C | 46 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1034·0 | +2 | NW | 4 | 0 | 45 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1033·5 | 0 | W | 2 | 0 | 46 | 75 | 7 | 5 | - | - | 10 | 10 | 1500 |
| 11 | Inchkeith | 190 | 1031·4 | -2 | WSW | 4 | bc | 47 | 95 | 8 | 5 | - | - | 2-3 | 2-3 | 4000 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1028·2 | +2 | WSW | 3 | C | 48 | 95 | 7 | 8 | - | - | 7-8 | 7-8 | 1500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1026·9 | +4 | W | 3 | C | 48 | 85 | 8 | 5 | 1 | - | 4-6 | 9 | 2500 |
| 16 | Lerwick | 54 | 1023·9 | +6 | W'N | 2 | C | 45 | 75 | 7 | 5 | - | - | 9 | 9 | 1500 |
| 17 | Blacksod Point | 18 | 1033·6 | -2 | S | 4 | C | 48 | 85 | 6 | - | 2 | - | 0 | 10 | - |
| 18 | Malin Head | 52 | 1033·3 | -2 | SW | 2 | c/d. | 47 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 179 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1036·1 | -6 | S'W | 3 | 0 | 45 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 13th December

| Division | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F (32) | Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 12th Hrs. (36) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1037·1 | 0 | SW'S | 1 | cd. | 45 | 95 | 5 | 6 | - | - | 10 | 10 | 4000 | 1 | * | 46 | 45 | 44 | - | Tr. | 0·0 |
| | Croydon | 1036·7 | -2 | SW'W | 2 | cd. | 45 | 95 | 4 | 5 | - | - | 10 | 10 | 800 | 1 | * | 46 | 44 | 43 | Tr. | Tr. | 0·0 |
| | S. Farnborough | 1037·0 | -2 | - | 0 | d.d. | 44 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * | 45 | 44 | 43 | Tr. | Tr. | 0·0 |
| | Winchester | 1037·2 | 0 | - | 0 | 0 | 43 | 95 | 4 | 5 | - | - | 10 | 10 | 1500 | 1 | * | 45 | 42 | 42 | Tr. | - | |
| | Boscombe Down | 1036·7 | -2 | S | 1 | 0 | 44 | 95 | 6 | 5 | - | - | 10 | 10 | 450 | 1 | * | 45 | 43 | 43 | Tr. | - | * |
| | Calshot, (S'thmtn) | 1036·8 | 0 | - | 0 | C | 45 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 0 | 0 | 47 | 44 | 43 | - | - | 0·0 |
| | Dungeness | * | * | WNW | 1 | C | * | * | 4 | 5 | - | * | 10 | 10 | 1500 | * | 0 | 49 | 43 | * | Tr. | Tr. | * |
| | Lympne | 1036·6 | +2 | NW | 1 | df | 44 | 95 | 3 | 5 | - | - | 10 | 10 | 450 | 1 | * | 45 | 43 | 42 | Tr. | Tr. | 0·0 |
| 2 | Shoeburyness | 1036·7 | 0 | WNW | 1 | 0 | 45 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * | 47 | 43 | 43 | - | Tr. | 0·0 |
| | Felixstowe | 1038·3 | 0 | W'N | 2 | d.d. | 44 | 95 | 5 | 6 | - | - | 10 | 10 | 800 | 1 | 1 | 47 | 43 | 36 | Tr. | Tr. | 0·0 |
| | Gorleston | 1035·0 | -4 | WNW | 2 | cd. | 44 | 95 | 5 | 6 | - | - | 10 | 10 | 1500 | 0 | 2 | 49 | 42 | 42 | - | 0·1 | 1·0 |
| | Cranwell | 1035·1 | -4 | W'S | 3 | c | 44 | 85 | 5 | 5 | - | - | 10 | 10 | 2500 | 1 | * | 47 | 39 | 37 | - | - | 4·7 |
| 3 | Birmingham | 1036·1 | -4 | W | 2 | 0 | 43 | 85 | 8 | 5 | - | - | 10 | 10 | 800 | 1 | * | 47 | 42 | 42 | Tr. | - | 0·9 |
| | Upper Heyford | 1036·5 | -4 | - | 0 | c | 44 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * | 47 | 44 | 43 | Tr. | - | * |
| | Leafield | 1036·1 | -6 | SW'W | 1 | c | 43 | 95 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * | 46 | 43 | 42 | - | - | 0·1 |
| 4 | Ross-on-Wye | 1036·0 | -4 | W | 2 | 0 | 45 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * | 50 | 44 | 43 | - | - | 1·5 |
| 5 | Portland Bill | 1036·5 | 0 | NW~~W~~ | 1 | c | 49 | 85 | 7 | 4 | 2 | - | 7-8 | 10 | 2500 | 0 | 2 | ~~52~~ 51 | 45 | * | - | - | * |
| | Plymouth | 1036·6 | -4 | - | 0 | 0 | 47 | 85 | 5 | 5 | - | - | 10 | 10 | 800 | 0 | 0 | 48 | 46 | 44 | - | - | 0·0 |
| | Falmouth | 1036·0 | -2 | - | 0 | c | 46 | 85 | 8 | 5 | 2 | - | 4-6 | 10 | 4000 | 0 | 0 | 49 | 46 | * | - | - | 0·0 |
| | Scilly (St. Mary's) | 1036·2 | -4 | - | 0 | c | 47 | 85 | 7 | 5 | - | - | 10 | 10 | 4000 | 1 | 1 | 48 | 46 | * | - | - | 0·0 |
| | Guernsey | 1036·2 | +2 | - | 0 | 0 | 48 | 75 | 8 | 5 | - | - | 10 | 10 | 2500 | 0 | 2 | 50 | 47 | 44 | - | - | 0·0 |
| 6 | Pembroke | 1035·5 | -6 | SSW | 1 | c | 48 | 95 | 7 | 5 | 1 | - | 7-8 | 10 | 4000 | 0 | 0 | 51 | 46 | * | - | - | 2·4 |
| 7 | Holyhead | 1035·0 | -6 | WSW | 4 | c | 45 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | 1 | 51 | 43 | 42 | - | - | 1·4 |
| | Chester (Sealand) | 1035·9 | -4 | W'S | 2 | 0 | 45 | 75 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * | 48 | 45 | 43 | Tr. | - | 0·0 |
| 8 | L'pool (Bidston) | 1035·5 | 0 | W'N | 3 | 0 | 44 | 75 | 8 | 5 | - | - | 10 | 10 | 1500 | 0 | * | 47 | 44 | 43 | Tr. | - | 0·0 |
| 9 | Harrogate | 1034·2 | 0 | WSW | 3 | b | 42 | 95 | 7 | 5 | - | - | Tr. | Tr. | 4000 | 1 | * | 51 | 42 | 37 | - | - | 5·0 |
| 10 | Spurn Head | 1033·8 | -2 | NW~~W~~ | 4 | c | 45 | 95 | 7 | - | 2 | - | 0 | 9+ | - | 0 | 3 | 48 | 44 | * | - | - | 2·7 |
| | Catterick | 1033·9 | -2 | WNW | 3 | b | 35 | 95 | 8 | 4 | - | - | Tr. | Tr. | 2500 | 1 | * | 56 | 34 | 25 | - | - | * |
| | Tynemouth | 1032·2 | 0 | W | 2 | bc | 42 | 85 | 8 | 2 | - | - | 2-3 | 2-3 | 2500 | 1 | 2 | 55 | 42 | 36 | - | - | |
| 11 | Inchkeith | 1031·2 | -4 | SW | 4 | c | 47 | 95 | 8 | 5 | - | - | 9+ | 9+ | 4000 | 0 | 2 | 51 | 46 | 45 | - | - | 1·3 |
| | Leuchars | 1029·8 | -2 | SW | 3 | b | 40 | 95 | 8 | 4 | 3 | - | 1 | 1 | 4000 | 1 | * | 54 | 39 | 31 | - | Tr. | 5·0 |
| 12 | Renfrew | 1032·0 | -2 | WSW | 3 | c/d | 46 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * | 51 | 46 | 43 | Tr. | 0·1 | 0·5 |
| | Eskdalemuir | 1032·9 | -6 | SW | 3 | c | 42 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | * | 51 | 41 | 40 | - | - | 2·1 |
| 13A | Tiree | 1029·6 | -14 | SSW | 5 | c | 47 | 95 | 6 | 6 | 2 | - | 4-6 | 10 | 800 | 1 | 3 | 51 | 47 | 44 | 1 | 1 | 1·7 |
| 13B | Stornoway | 1025·8 | -10 | WSW | 3 | c/d | 48 | 95 | 7 | 9 | 7 | - | 4-6 | 7-8 | 1500 | 1 | 2 | 51 | 47 | * | 0·3 | 0·4 | 0·0 |
| 15 | Dalwhinnie | | -4 | SSE | 2 | bc | 44 | 85 | 7 | 4 | - | - | 4-6 | 4-6 | 2500 | 1 | * | 49 | 42 | 40 | Tr. | - | 0·0 |
| | Aberdeen | 1029·0 | -2 | SE | 1 | b | 40 | 95 | 7 | - | 3 | - | 0 | Tr. | - | 1 | 1 | 53 | 40 | 30 | 0·2 | - | 0·2 |
| | Wick | 1028·7 | -2 | WSW | 3 | bc | 45 | 95 | 8 | 8 | 1 | - | 4-6 | 4-6 | 2500 | 1 | 2 | 47 | 44 | * | 1 | 2 | * |
| 16 | Lerwick | 1023·9 | 0 | - | 0 | cd. | 43 | 95 | 4 | 5 | - | - | 10 | 10 | 450 | 1 | * | 47 | 43 | * | 1 | Tr. | 0·0 |
| 17 | Blacksod Point | 1030·6 | -8 | S | 5 | cjp | 48 | 95 | 7 | 8 | - | - | 10 | 10 | 1500 | 0 | 4 | 50 | 47 | * | 1 | Tr. | * |
| 18 | Malin Head | 1031·1 | -10 | S | 2 | c | 45 | 85 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 0 | 2 | 49 | 44 | * | - | 0·2 | 0·1 |
| | Aldergrove | 1034·0 | -6 | SSW | 3 | cd. | 41 | 85 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * | 45 | 40 | 40 | Tr. | Tr. | 0·0 |
| | Donaghadee | 1033·5 | -4 | W'S | 2 | c | 43 | 85 | 7 | 5 | 2 | - | 4-6 | 7-8 | 2500 | 0 | 0 | 46 | 42 | * | - | - | * |
| 19 | Birr Castle | 1034·4 | -6 | SW | 1 | 0 | 41 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * | 46 | 41 | 40 | 0·2 | - | 0·0 |
| 20 | Valentia Obsy.† | 1033·4 | -8 | SE'S | 3 | cd. | 46 | 95 | 6 | 5 | - | - | 9+ | 9+ | 800 | 1 | * | 47 | ~~32~~ 44 | 42 | Tr. | Tr. | 0·0 |
| | Roches Point | 1035·4 | -6 | W | 3 | c | 46 | 95 | 8 | 5 | - | - | 9 | 9 | 1500 | 0 | 2 | 48 | 44 | * | 0·2 | 0·2 | * |

### PAST 24 HOURS.

## LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon | Weather Night | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. (To-day) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KEW | 18 | c3. | c3.cm. | cm.od. | 46 | 45 | 44 | - | Tr. | 0·0 | * | * | 4 |
| CROYDON | 217 | ocmid. | cmm. | comddd. | 46 | 44 | 43 | Tr. | Tr. | 0·0 | * | * | 6 |
| GREENWICH (Royal Observatory) | 149 | 0m | omf | od.dj | 47 | 44 | 42 | - | 0·3 | 0·0 | 76 | 95 | 3 |
| CITY (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0·0 | * | * | * |
| WESTMINSTER (St. James' Park) | 27 | * | * | * | ~~46~~ | ~~45~~ | ~~43~~ | 0·1 | | 0·0 | 83 | 80 | * |
| REGENTS PK. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | | * | * | * |
| CAMDEN SQUARE | 110 | | | * | | | | | | * | * | | * |
| KENSINGTON | 80 | obcm | cobcm | * | 47 | 45 | 44 | - | 0·3 | 0·0 | At 18h. 92 | 97 | * |
| HAMPSTEAD OBSERVATORY | 450 | o | o | * | 46 | 41 | 39 | Tr. | 0·3 | 0·0 | * | 99 | * |

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 13th

| | Max. | Time | Min. | Time |
|---|---|---|---|---|
| SOUTH KENSINGTON | 1·0 | 17/22h 12th | <0·3 | 5/7hr 13th |
| KEW OBSERVATORY | 0·5 | 19h. 12th | 0·2 | 5h. 13th |

## FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 12th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 13th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARIS | 1037·3 | - | 0 | 0 | 37 | 1037·8 | - | 0 | c | 37 | 39 | 36 | - | - |
| BRUSSELS | 1035·4 | S | 2 | c | 39 | 1036·0 | SW | 2 | 0 | 37 | 41 | 34 | Tr. | - |
| BERLIN | 1028·5 | WSW | 4 | o/r | 34 | 1026·6 | W | 4 | c | 39 | 34 | 27 | 0·2 | 1 |
| ZÜRICH | 1038·6 | E | 1 | b | 27 | 1036·0 | E | 1 | bc | 23 | 32 | 23 | - | - |
| ROME | 1015·8 | NE | 4 | b | 32 | 1019·8 | NE | 3 | b | 39 | 46 | 39 | - | - |

## EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13–18 | 9 | 47–54 |
| 1 | 1–3 | 5 | 19–24 | 10 | 55–63 |
| 2 | 4–7 | 6 | 25–31 | 11 | 64–75 |
| 3 | 8–12 | 7 | 32–38 | 12 | 75 |
| | | 8 | 39–46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | | Objects not visible at |
|---|---|---|
| 0 | Dense fog | 55 yards. |
| 1 | Thick fog | 220 " |
| 2 | Fog | 550 " |
| 3 | Moderate fog | 1,100 " |
| 4 | Mist or haze | 1¼ miles. |
| 5 | Poor visibility | 2½ " |
| 6 | Moderate " | 6½ " |
| 7 | Good " | 12½ " |
| 8 | Very good " | 31 " |
| 9 | Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | | | |
|---|---|---|---|
| 0 | Calm. | 5 | Very rough. |
| 1 | Smooth. | 6 | High. |
| 2 | Slight. | 7 | Very high. |
| 3 | Moderate. | 8 | Precipitous. |
| 4 | Rough. | 9 | Confused. |

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 14th December 1931.

No. 25589

| District. | Stations. (For heights see p. 4.) | OBSERVATIONS at 13h. G.M.T. 13th December | | | | | | | | | | | | | | OBSERVATIONS at 18h. G.M.T. 13th December | | | | | | | | | | | | | | PAST 24 HOURS. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Barom. at M.S.L. mb. | Change in 3 hours. | Wind. Direc. | Wind. Force 0-12 | Weather. | Temp. °F. | Humid. % | Visibility 0-9 | Cloud. Form. Low. | Cloud. Form. Med. | Cloud. Form. High. | Cloud. Amount. Low 0-10 | Cloud. Amount. Total 0-10 | Height of Base. (feet) | Barom. at M.S.L. mb. | Change in 3 hours. | Wind. Direc. | Wind. Force 0-12 | Weather. | Temp. °F. | Humid. % | Visibility 0-9 | Cloud. Form. Low. | Cloud. Form. Med. | Cloud. Form. High. | Cloud. Amount. Low. 0-10 | Cloud. Amount. Total 0-10 | Height of Base (feet) | State of Ground. 0-9 | Sea. 0-9 | Weather. 7h.–13h. 13th | Weather. 13h.–18h. 13th | Weather. 18h. 13th to 1h. 14th | Weather. 1h.–7h. 14th |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) | (23) | (24) | (25) | (26) | (27) | (28) | (29) | (30) | (37) | (38) | (39) | (40) |
| 1 | London (Kew) | 1036.2 | -14 | WSW | 2 | c | 46 | 85 | 5 | 5 | 2 | - | 7.8 | 10 | 1500 | 1035.0 | -6 | WSW | 2 | c | 46 | 85 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | * | ofcm. | cm. | c3. | c3. |
| | Croydon | 1036.2 | -10 | WSW | 2 | dd | 45 | 85 | 5 | 5 | - | - | 10 | 10 | 1500 | 1034.8 | -4 | W | 3 | c | 45 | 85 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | * | cidd.n | cd.m. | cm. | c3. |
| | S. Farnborough | 1036.2 | -12 | SW'W | 3 | o/d | 45 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1034.9 | -2 | SW | 1 | o | 44 | 85 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * | oid. | do | ocm. | cm. |
| | Winchester | 1036.0 | -14 | SW | 2 | c | 46 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 1034.6 | -4 | W'S | 2 | c | 46 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * | omcidm | cm. | cm.c | c |
| | Boscombe Down | 1036.4 | -10 | SW | 2 | o | 45 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1034.8 | -6 | SW | 1 | o | 45 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * | om. | om. | om. | om.c |
| | Calshot, S'thmtn | 1036.7 | -4 | - | 0 | c | 48 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 1035.1 | -4 | W | 2 | c | 48 | 85 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 0 | 0 | cm. | cm. | c | c |
| | Dungeness | * | * | WNW | 1 | dd | * | * | 4 | 8 | - | - | 10 | 10 | 1500 | * | * | SW | 1 | c | * | * | 5 | 8 | - | * | 10 | 10 | 1500 | * | 0 | o | o | * | o |
| | Lympne | 1036.3 | -4 | WSW | 2 | dd. | 44 | 95 | 5 | 5 | - | - | 10 | 10 | 800 | 1034.5 | -8 | WNW | 3 | o/d | 44 | 95 | 4 | 5 | - | - | 10 | 10 | 800 | 1 | * | od.fm. | od.m.m | om. | oriron. |
| 2 | Shoeburyness | 1036.2 | -4 | SW | 1 | o | 46 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1034.7 | -10 | SW'W | 3 | o | 45 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * | omid. | om.o | o | c |
| | Felixstowe | 1035.8 | -6 | WSW | 2 | c | 46 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 | 1034.2 | 0 | WNW | 2 | c | 46 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 1 | od.cm. | cm. | cm. | cm. |
| | Gorleston | 1034.9 | -4 | NW'W | 1 | c | 43 | 95 | 6 | 4 | - | - | 10 | 10 | 2500 | 1033.4 | -4 | NW'W | 2 | c | 43 | 85 | 6 | - | 2 | - | 0 | 10 | - | 0 | 1 | oid.m. | cm. | cmm. | cm. |
| | Cranwell | 1034.4 | -12 | W'S | 3 | c | 43 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 1032.9 | -2 | WSW | 3 | c | 40 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 0 | * | cm. | cm. | cm. | cm. |
| 3 | Birmingham | 1035.6 | -8 | W | 2 | c | 41 | 85 | 5 | 5 | - | - | 10 | 10 | 1500 | 1033.5 | -2 | W | 3 | c | 43 | 85 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * | oc | o | c | c |
| | Upper Heyford | 1035.6 | -14 | WSW | 3 | c | 45 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1034.4 | -4 | W | 3 | o | 44 | 85 | 6 | 5 | - | - | 10 | 10 | 1600 | 1 | * | cm.c | com. | c | c |
| | Leafield | 1035.2 | -10 | W'S | 3 | c | 44 | 75 | 7 | 5 | - | - | 10 | 10 | 2500 | 1033.8 | -6 | WSW | 2 | c | 43 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * | c | c | c | c |
| 4 | Ross-on-Wye | 1034.8 | -10 | SW'W | 2 | o | 46 | 75 | 6 | 5 | - | - | 10 | 10 | 2500 | 1033.4 | -4 | WSW | 2 | o | 45 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * | o | oco | om. | occ |
| 5 | Portland Bill | 1035.9 | -10 | SE | 1 | c | 49 | 65 | 7 | 4 | 2 | - | 7.8 | 10 | 2500 | 1034.5 | -6 | S'W | 1 | c | 49 | 75 | 8 | 4 | 2 | - | 7.8 | 10 | 2500 | 0 | 2 | c | c | c | c |
| | Plymouth | 1036.0 | -6 | - | 0 | o | 48 | 75 | 8 | 5 | - | - | 10 | 10 | 2500 | 1034.5 | -2 | W | 1 | o | 48 | 75 | 6 | 5 | - | - | 10 | 10 | 2500 | 0 | 1 | om. | om. | om. | o |
| | Falmouth | 1035.7 | -4 | SW'W | 1 | c | 47 | 76 | 8 | 5 | 2 | - | 4-6 | 10 | 4000 | 1034.0 | -2 | WSW | 2 | c | 47 | 85 | 8 | 5 | 2 | - | 4-6 | 10 | 4000 | 0 | 0 | c | c | c | c |
| | Scilly (St. Mary's) | 1035.6 | -6 | SSW | 2 | c | 47 | 85 | 7 | 5 | - | - | 10 | 10 | 4000 | 1034.2 | -4 | W'S | 2 | c | 47 | 85 | 8 | 5 | - | - | 10 | 10 | 4000 | 1 | 1 | c | c | c | cc |
| | Guernsey | 1035.9 | -6 | WSW | 1 | o | 49 | 75 | 8 | 5 | - | - | 10 | 10 | 2500 | 1035.2 | 0 | - | 0 | o | 46 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 0 | 1 | o | o | o | o |
| 6 | Pembroke | 1034.7 | -4 | SSW | 2 | c | 48 | 95 | 7 | 4 | 6 | - | 7.8 | 10 | 2500 | 1032.0 | -6 | SSW | 2 | c | 49 | 95 | 7 | 5 | 1 | - | 7.8 | 10 | 4000 | 0 | 1 | c | c | c | c |
| 7 | Holyhead | 1033.4 | -14 | SSW | 5 | c | 47 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 | 1032.0 | -10 | WSW | 4 | c | 47 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | 1 | c,d.c | c | co | om. |
| | Chester (Sealand) | 1034.8 | -14 | S'E | 2 | c | 45 | 75 | 8 | 5 | - | - | 9+ | 9+ | 1500 | 1032.7 | -10 | SW | 1 | o | 46 | 75 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * | oc | co | o | o |
| 8 | L'pool (Bidston) | 1034.4 | -8 | - | 0 | c | 45 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 | 1032.3 | -4 | SW'W | 3 | o | 45 | 75 | 7 | 5 | - | - | 10 | 10 | 1500 | 0 | * | occ | o | o | r |
| 9 | Harrogate | 1032.7 | 0 | WSW | 3 | c | 43 | 85 | 7 | 5 | - | - | 9 | 9 | 2500 | 1031.0 | -6 | W | 3 | c | 43 | 85 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * | b bcc | bcc | cbc | bcb |
| 10 | Spurn Head | 1032.7 | -4 | WNW | 4 | c | 45 | 85 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 1031.7 | 0 | W'S | 3 | o | 43 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 0 | 2 | bc | o | o | o |
| | Catterick | 1031.7 | -22 | WSW | 4 | b | 46 | 85 | 7 | 8 | - | - | 1 | 1 | 2500 | 1030.0 | -10 | WNW | 4 | c | 45 | 85 | 7 | 4 | - | - | 9 | 9 | 2500 | 1 | * | bxb | bbcc | bcb | b |
| | Tynemouth | 1030.3 | -12 | W | 2 | bc | 46 | 75 | 6 | 2 | - | - | 4-6 | 4-6 | 2500 | 1029.7 | -6 | W | 2 | c | 43 | 75 | 6 | 6 | - | - | 7-8 | 7-8 | 1500 | 0 | 1 | bc | bcc | cbco | o |
| 11 | Inchkeith | 1029.8 | -6 | WSW | 4 | c | 43 | 95 | 8 | 5 | 2 | - | 4-6 | 10 | 2500 | 1027.1 | -12 | SW | 4 | o | 41 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | 3 | c | co | c | cir. |
| 12 | Leuchars | 1028.5 | -10 | WSW | 5 | c | 44 | 85 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1025.2 | -22 | WSW | 4 | c | 43 | 85 | 7 | 5 | - | 8 | 7-8 | 9+ | 1500 | 1 | * | bcwcq | cqcq | cbcq | bcqb |
| | Renfrew | 1031.2 | -6 | SW | 3 | c | 44 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1028.1 | -18 | SW | 4 | c | 43 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * | d.c | c | cid | cn.id |
| | Eskdalemuir | 1031.6 | -12 | SW'S | 4 | c | 40 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 | 1029.6 | -12 | SW | 4 | c | 38 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * | c | c | coid. | od.d. |
| 13A | Tiree | 1027.6 | -16 | SW | 5 | d.d. | 47 | 85 | 6 | 6 | 2 | - | 9 | 10 | 800 | 1024.6 | -16 | SSW | 5 | id. | 49 | 95 | 6 | 6 | 2 | - | 9+ | 10 | 800 | 1 | 3 | cm.dddd | cm.dd | cidndd | cd.d. |
| 13B | Stornoway | 1023.3 | -16 | SSW | 4 | id. | 49 | 95 | 8 | 8 | 2 | - | 7-8 | 9+ | 2500 | 1019.0 | -10 | SSW | 5 | id | 50 | 95 | 7 | 9 | 2 | - | 7-8 | 10 | 1500 | 1 | 3 | cp.d | cp.d | od.d.q | oid. |
| 15 | Dalwhinnie | 1028.3 | -4 | SSW | 3 | c | 43 | 85 | 8 | 4 | - | - | 9 | 9 | 800 | 1025.3 | -16 | S | 2 | c | 45 | 85 | 8 | 4 | 5 | - | 4-6 | 7-8 | 800 | 0 | * | bc | c | bc | be |
| | Aberdeen | 1026.5 | -18 | SW | 2 | b | 49 | 65 | 6 | - | 3 | 1 | 0 | 1 | - | 1023.3 | -18 | S'W | 2 | bc | 40 | 85 | 6 | - | 3 | 1 | 0 | 2-3 | - | 1 | 1 | bzfb | bz. | bccbc | bcbz. |
| | Wick | 1024.4 | -12 | W | 3 | bc | 50 | 85 | 8 | 8 | 7 | 8 | 4-6 | 4-6 | 2500 | 1020.6 | -20 | SW | 4 | c | 46 | 95 | 8 | 5 | 1 | - | 7-8 | 9 | 2500 | 1 | 2 | bc | bcc | bc | bcc |
| 16 | Lerwick | 1020.5 | -24 | W'S | 2 | c/d | 49 | 95 | 7 | 6 | 2 | - | 4-6 | 9 | 800 | 1016.9 | -18 | WSW | 3 | id | 47 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | 2 | * | oid. | coidm. | oidrrm. | orrm. |
| 17 | Blacksod Point | 1029.5 | -2 | S | 4 | iD | 52 | 85 | 8 | 5 | - | - | 7.8 | 7.8 | 220 | 1028.4 | 0 | SSE | 4 | id. | 50 | 95 | 8 | 5 | - | - | 7-8 | 7-8 | 450 | 1 | 4 | id | idc | id | o |
| 18 | Malin Head | 1029.6 | -14 | S | 3 | c | 45 | 95 | 7 | 5 | - | - | 9 | 9 | 2500 | 1026.7 | -8 | S | 4 | c | 46 | 95 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 0 | 2 | ce | ce | cbcce | ce |
| | Aldergrove | 1032.5 | -10 | SSW | 3 | dd | 40 | 95 | 7 | 5 | - | - | 10 | 10 | 800 | 1030.1 | -14 | S | 3 | id. | 42 | 95 | 6 | 5 | - | - | 10 | 10 | 450 | 1 | * | cdd | ddid. | od. | od. |
| | Donaghadee | 1032.8 | -10 | SSW | 2 | c | 40 | 85 | 7 | 5 | 2 | - | 4-6 | 9 | 1500 | 1030.3 | -14 | SW | 2 | c | 42 | 95 | 7 | 5 | 2 | - | 4-6 | 9 | 1500 | 0 | 0 | c | c | c | c |
| 19 | Birr Castle | 1033.1 | -8 | SW | 1 | c | 46 | 85 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 1032.1 | -8 | SW | 1 | c | 46 | 95 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * | oc | c | c | c |
| 20 | Valentia Obsy. | 1032.6 | -8 | S'E | 3 | c/d | 49 | 95 | 8 | 5 | - | - | 10 | 10 | 1500 | 1031.0 | -2 | S | 3 | c | 50 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 | cid. | cid.c | c | c |
| | Roches Point | 1034.3 | -6 | W | 2 | c | 47 | 95 | 8 | 5 | - | - | 9 | 9 | 1500 | 1033.0 | -6 | SW | 3 | ir. | 48 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | 3 | cp.c | coir. | cir.c | c |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s., slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s./k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus.
R, heavy rain. $r_o$, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ◐, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; −, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/10 of the sky.
"9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

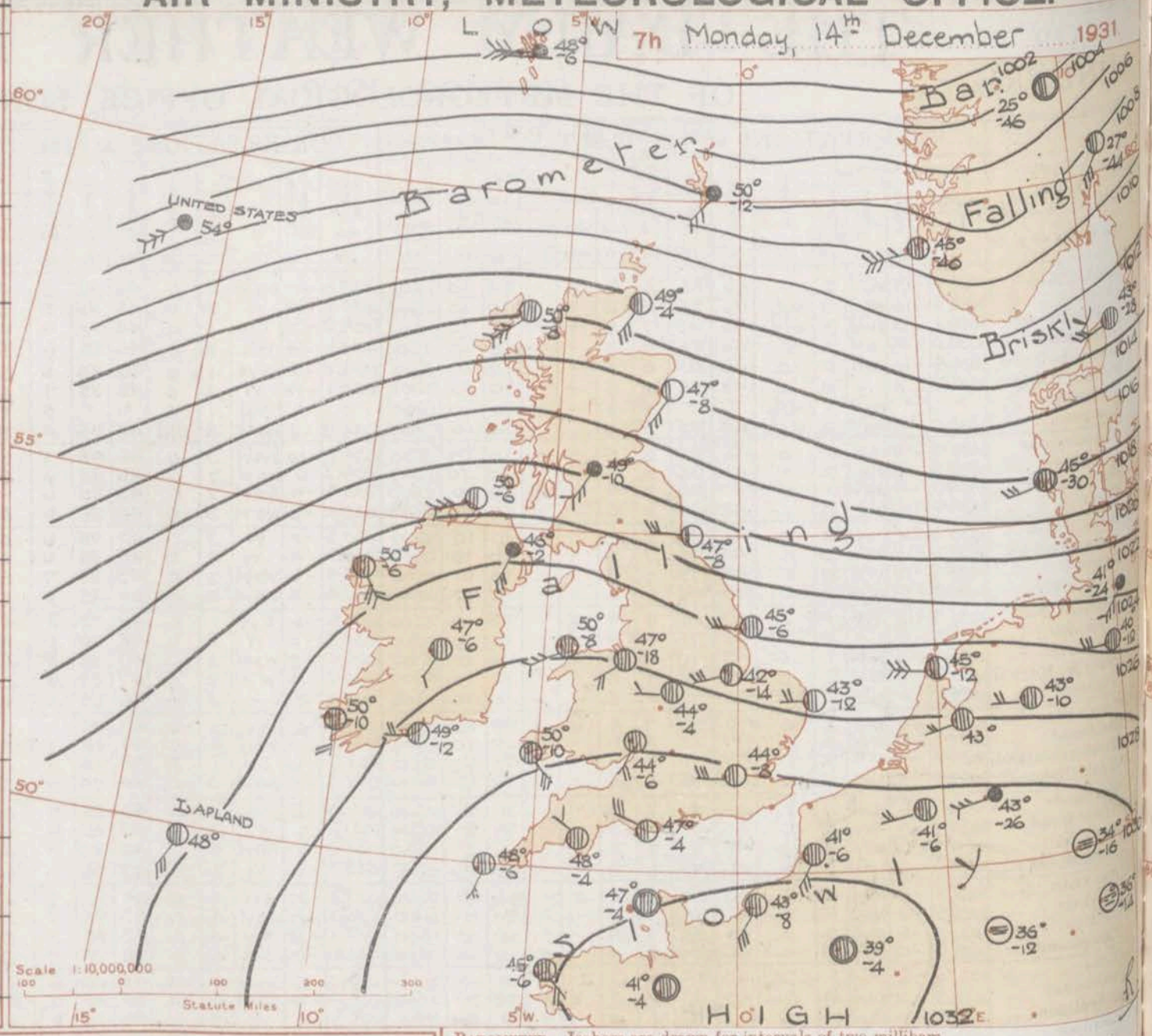
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

# AIR MINISTRY, METEOROLOGICAL OFFICE.

## REPORTS from HEALTH RESORTS for 13th December 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 12th to 9h. 13th | Temperature. Max. 9h.—17h. 12th | Rainfall. Night. 17h. 12th to 9h. 13th | Rainfall. Day. 9h.—17h. 13th | Sunshine. Sunrise to Sunset. 12th |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | mo | o | 43 | 45 | - | - | 0.0 |
| | Bournemouth | o | o | 44 | 48 | - | - | 0.0 |
| | Ventnor ... | o3 | o3 | 43 | 48 | - | - | 0.0 |
| | Southsea ... | o | o | 44 | 47 | - | - | 0.0 |
| | Bognor Regis | o | o | 44 | 48 | - | - | 0.0 |
| | Littlehampton | o | o | 44 | 47 | - | - | 0.0 |
| | Worthing ... | oc | co | 44 | 48 | - | - | 0.0 |
| | Brighton ... | fo | o | 45 | 48 | - | - | 0.0 |
| | Eastbourne† | o | om | 45 | 48 | - | - | 0.0 |
| | Hastings† ... | omo | o | 44 | 47 | - | - | 0.0 |
| | Folkestone ... | ofid. | ofid. | 44 | 47 | Trace | Trace | 0.0 |
| | Dover... ... | mod. | oid. | 45 | 48 | Trace | Trace | 0.0 |
| | Deal ... ... | oro | o | 44 | 47 | 0.3 | Trace | 0.0 |
| | Ramsgate ... | om | om | 44 | 46 | Trace | Trace | 0.0 |
| | Margate ... | cd | cd | 45 | 46 | Trace | Trace | 0.0 |
| 2 | Southend ... | ofe | o | 45 | 45 | Trace | Trace | 0.0 |
| | Maldon ... | o | o | 44 | 47 | - | - | 0.0 |
| | Clacton-on-Sea | oc | c | 44 | 46 | - | - | 0.0 |
| | Dovercourt ... | docm | oc | 43 | 46 | Trace | - | 0.0 |
| | Lowestoft ... | c | c | 42 | 44 | - | - | 0.0 |
| | Skegness ... | om. | om. | 38 | 44 | - | - | 0.0 |
| | Mablethorpe | o | om. | 39 | 44 | - | - | 0.0 |
| | Cleethorpes ... | omo | o | 43 | 45 | - | - | 0.0 |
| 3 | Leamington S. | o | o | 43 | 45 | - | - | 0.0 |
| 4 | Cheltenham† | om. | om. | 44 | 46 | - | - | 0.0 |
| 5 | Bath ... ... | cm. | cm. | 45 | 48 | - | - | 0.0 |
| | Weymouth ... | fo | c | 45 | 49 | - | - | 0.0 |
| | Jersey ... | c3 | c | 47 | 49 | - | - | 0.0 |
| | Torquay ... | o | o | 45 | 49 | - | - | 0.0 |
| | Penzance ... | o | oc | 47 | 49 | - | - | 0.0 |
| | St. Ives ... | o | o | 46 | 48 | - | - | 0.0 |
| | Bude ... ... | o | o | 45 | 51 | - | - | 0.0 |
| | Ilfracombe ... | oc | c | 46 | 48 | - | - | 0.0 |
| 6 | Aberystwyth | c | c | 44 | 47 | - | - | 0.0 |
| 7 | Llandudno ... | cbc | cbc | 44 | 50 | - | - | 2.2 |
| | Colwyn Bay... | obc | cbc | 40 | 46 | - | - | 2.0 |
| | Rhyl ... ... | c | c | 43 | 46 | - | - | 0.0 |
| 8 | Wallasey ... | c | c | 44 | 46 | - | - | 0.0 |
| | Southport‖ ... | c | c | 44 | 47 | - | - | 0.0 |
| | Blackpool ... | c | c | 44 | 48 | - | - | 0.0 |
| | Morecambe ... | c | cdpc | 44 | 47 | - | Trace | 0.0 |
| 9 | Ilkley... ... | o | o | 43 | 44 | - | - | 0.0 |
| 10 | Berwick-on-T. | bc | c | 45 | 45 | - | - | 1.9 |
| 11 | Dunbar ... | cbc | c | 46 | 47 | - | - | 0.0 |
| 12 | Douglas ... | co | o | 41 | 43 | - | - | 0.0 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.




| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 14th Dec. 1931. |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands<br>4. W. Midlands | Light west to southwest wind; cloudy or dull; mild. |
| 5. S.W. England<br>6. South Wales<br>7. North Wales<br>8. N.W. England<br>9. N. Midlands | Light or moderate southwest wind; cloudy or dull, local drizzle; mild. |
| 10. N.E. England<br>11. S.E. Scotland | Moderate or light westerly wind; mainly cloudy; bright periods locally; mild. |
| 12. S.W. Scotland & Isle of Man<br>13. A. W. Scotld. B. N.W. Scotland. | Moderate to strong southwest wind; cloudy or dull; some drizzle; mild. |
| 14. Mid Scotland<br>15. N.E. Scotland | As 10 - 11. |
| 16. Orkneys and Shetlands. | As 12 - 14. |
| 17. N.W. Ireland<br>18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland | As 5 - 9. |

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 1/10 clouded. ◕ Sky 1/10 to 1/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

### GENERAL INFERENCE.

An anticyclone centred over France is decreasing in intensity. A depression off Norway will move east-south-east and there is a large stationary depression far out on the Atlantic. An anticyclone over Greenland is spreading slightly southeast. Weather will be cloudy with local drizzle in western districts.

### FURTHER OUTLOOK.

Unsettled in the West and North.

### Time of issue of Gale Warnings.

South Cone at 1422 on 13th in districts 13B., and 16.

Forecasts issued at 0930 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2.
Fe 307/236. Wt. 78. D.8001. Ob.303. 28210. 12/31.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 14th December 1931.

No. 25589

### OBSERVATIONS at 1 hr. G.M.T. 14th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1032·0 | -18 | WSW | 3 | c | 45 | 75 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot, (S'thmtn) | 8 | 1032·1 | -20 | WNW | 2 | c | 46 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1032·7 | -12 | WSW | 3 | o | 44 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1030·3 | -18 | W'N | 2 | c | 43 | 85 | 6 | - | 2 | - | 0 | 10 | - |
| | Cranwell | 240 | 1029·2 | -22 | SW'W | 3 | c | 42 | 85 | 6 | 5 | - | - | 9+ | 9+ | 2500 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1032·4 | -10 | W | 3 | c | 48 | 75 | 8 | 4 | 2 | - | 4·6 | 10 | 2500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1032·8 | -4 | - | 0 | c | 47 | 85 | 8 | 5 | 2 | - | 4·6 | 10 | 4000 |
| | Scilly (St. Mary's) | 163 | 1032·8 | -4 | SSW | 2 | c | 49 | 85 | 8 | 5 | - | - | 9+ | 9+ | 4000 |
| | Guernsey | 175 | 1032·8 | -16 | S'E | 1 | o | 47 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 |
| 6 | Pembroke | 142 | 1031·4 | -4 | WSW | 4 | c | 47 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 |
| 7 | Holyhead | 26 | 1029·4 | -16 | SW | 3 | o | 47 | 85 | 8 | 5 | - | - | 10 | 10 | 800 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1028·0 | -8 | SW'W | 2 | o | 42 | 95 | 6 | 5 | - | - | 10 | 10 | 2500 |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1025·6 | -12 | W | 2 | o | 46 | 75 | 7 | 6 | - | - | 10 | 10 | 1500 |
| 11 | Inchkeith | 190 | 1024·3 | -8 | SW | 5 | c | 47 | 95 | 8 | 5 | 7 | - | 4·6 | 9 | 2500 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13a | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13b | Stornoway | 34 | 1016·4 | -4 | SW | 7 | d.d. | 51 | 95 | 5 | 6 | - | - | 10 | 10 | 800 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1015·3 | -18 | SSW | 4 | bc | 50 | 95 | 8 | 8 | 7 | - | 4·6 | 4·6 | 2500 |
| 16 | Lerwick | 54 | 1009·3 | -32 | SW | 5 | rr | 50 | 95 | 6 | 6 | - | - | 10 | 10 | 800 |
| 17 | Blacksod Point | 18 | 1025·9 | -8 | S | 4 | rr | 51 | 95 | 6 | 6 | - | - | 10 | 10 | <150 |
| 18 | Malin Head | 52 | 1024·4 | -6 | SW | 4 | c | 50 | 95 | 7 | 5 | - | - | 9+ | 9+ | 2500 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1029·6 | -14 | SW | 2 | o | 50 | 85 | 7 | 6 | - | - | 10 | 10 | 1500 |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 14th December

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1030·1 | -8 | SW'W | 2 | c | 44 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Croydon | 1030·0 | -8 | W'S | 3 | c | 44 | 75 | 6 | 5 | 7 | - | 2·3 | 10 | 4000 | 1 | * |
| | S. Farnborough | 1030·2 | -8 | WSW | 2 | c | 44 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Winchester | 1030·5 | -8 | WSW | 3 | c | 44 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Boscombe Down | 1030·8 | -6 | SSW | 2 | c | 43 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Calshot, (S'thmtn) | 1030·9 | -6 | SSW | 3 | c | 46 | 75 | 7 | 5 | - | - | 10 | 10 | 4000 | 0 | 1 |
| | Dungeness | * | * | WNW | 2 | c | * | * | 7 | 8 | - | * | 10 | 10 | 1500 | * | 1 |
| | Lympne | 1030·2 | -8 | W | 3 | i.r. | 44 | 85 | 6 | 5 | 2 | - | 7-8 | 10 | 1500 | 1 | * |
| 2 | Shoeburyness | 1029·8 | -10 | WSW | 3 | c | 45 | 85 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 0 | * |
| | Felixstowe | 1029·0 | -16 | W'S | 3 | c | 45 | 85 | 6 | 5 | - | - | 10 | 10 | 4000 | 0 | 2 |
| | Gorleston | 1026·8 | -12 | W | 2 | c | 43 | 85 | 6 | - | 2 | - | 0 | 10 | - | 0 | 2 |
| | Cranwell | 1027·6 | -14 | WSW | 3 | c | 42 | 85 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 0 | * |
| 3 | Birmingham | 1029·3 | -4 | W | 1 | c | 44 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Upper Heyford | 1029·8 | -8 | WNW | 2 | c | 43 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Leafield | 1029·4 | -6 | W'N | 3 | c | 43 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 4 | Ross-on-Wye | 1029·6 | -6 | SW | 2 | c | 44 | 85 | 8 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| 5 | Portland Bill | 1030·9 | -4 | WNW | 3 | c | 47 | 75 | 8 | 4 | 2 | - | 4·6 | 10 | 2500 | 0 | 2 |
| | Plymouth | 1031·4 | -4 | NW | 1 | o | 48 | 75 | 8 | 5 | - | - | 10 | 10 | 1500 | 0 | 1 |
| | Falmouth | 1030·8 | -4 | - | 0 | c | 47 | 85 | 8 | 5 | 2 | - | 4·6 | 10 | 4000 | 0 | 0 |
| | Scilly (St. Mary's) | 1031·0 | -6 | SSW | 2 | c | 48 | 75 | 7 | 5 | - | - | 10 | 10 | 4000 | 1 | 1 |
| | Guernsey | 1031·4 | -4 | - | 0 | o | 47 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | 1 |
| 6 | Pembroke | 1028·6 | -10 | WSW | 3 | c | 50 | 95 | 7 | 5 | - | - | 10 | 10 | 4000 | 0 | 2 |
| 7 | Holyhead | 1027·6 | -8 | SW'W | 4 | o | 50 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 1 |
| | Chester (Sealand) | 1027·9 | -18 | SW'W | 1 | o | 47 | 75 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| 8 | L'pool (Bidston) | 1026·9 | -10 | W'S | 4 | o | 47 | 75 | 8 | 5 | - | - | 10 | 10 | 2500 | 0 | * |
| 9 | Harrogate | 1025·9 | -6 | - | 0 | c | 45 | 85 | 7 | 5 | - | - | 9 | 9 | 2500 | 1 | * |
| 10 | Spurn Head | 1025·4 | -6 | W | 3 | o | 45 | 95 | 6 | 5 | - | - | 10 | 10 | 2500 | 0 | 2 |
| | Catterick | 1024·3 | -16 | SW | 3 | bc | 46 | 85 | 7 | 4 | - | 1 | 2·3 | 2·3 | 2500 | 0 | * |
| | Tynemouth | 1022·6 | -8 | W | 3 | bc | 47 | 85 | 7 | 2 | - | - | 4·6 | 4·6 | 2500 | 1 | 2 |
| 11 | Inchkeith | 1021·3 | -6 | SW | 4 | c | 48 | 95 | 8 | 5 | 2 | - | 4·6 | 9 | 4000 | 0 | 3 |
| | Leuchars | 1019·8 | -16 | WSW | 4 | bc | 48 | 95 | 7 | 5 | - | 2 | 2·3 | 2·3 | 2500 | 1 | * |
| 12 | Renfrew | 1022·3 | -12 | SW | 4 | id | 49 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Eskdalemuir | 1023·9 | -10 | SW | 4 | d.d. | 45 | 95 | 6 | 5 | - | - | 10 | 10 | 220 | 1 | * |
| 13a | Tiree | 1018·4 | -8 | SW'W | 4 | c | 49 | 95 | 7 | 6 | 1 | - | 9 | 9+ | 1500 | 1 | 3 |
| 13b | Stornoway | 1015·1 | -8 | SW | 6 | o/d | 50 | 95 | 5 | 6 | - | - | 10 | 10 | 1500 | 1 | 4 |
| 15 | Dalwhinnie | 1019·3 | -6 | SW | 3 | c | 48 | 85 | 6 | 4 | 2 | - | 7-8 | 10 | 1500 | 0 | * |
| | Aberdeen | 1017·2 | -8 | SW'S | 3 | bc | 47 | 85 | 6 | - | 7 | - | 0 | 2·3 | - | 1 | 1 |
| | Wick | 1013·7 | -4 | SW | 3 | c | 49 | 95 | 8 | 8 | 1 | - | 4·6 | 7·8 | 2500 | 1 | 2 |
| 16 | Lerwick | 1007·8 | -12 | SW | 4 | rr | 50 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| 17 | Blacksod Point | 1025·0 | -6 | SSE | 5 | o | 50 | 95 | 6 | 6 | - | - | 10 | 10 | <150 | 1 | 4 |
| 18 | Malin Head | 1022·9 | -6 | SW | 4 | c/d | 50 | 95 | 6 | 5 | 1 | - | 4·6 | 9+ | 800 | 0 | 2 |
| | Aldergrove | 1025·8 | -2 | S'W | 3 | i.d. | 46 | 95 | 6 | 5 | - | - | 10 | 10 | 450 | 1 | * |
| | Donaghadee | 1025·2 | -2 | WSW | 1 | c | 48 | 95 | 7 | 5 | 2 | - | 4·6 | 7·8 | 2500 | 0 | 0 |
| 19 | Birr Castle | 1027·2 | -6 | SW | 1 | c | 47 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| 20 | Valentia Obsy.† | 1027·6 | -10 | S | 2 | c | 50 | 95 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Roches Point | 1029·2 | -12 | W | 2 | c | 49 | 95 | 8 | 5 | - | - | 9 | 9 | 1500 | 0 | 3 |

### PAST 24 HOURS.

| District | Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F (32) | Temperature Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 13th hrs. (36) |
|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 45 | 44 | 42 | Tr. | - | 0·0 |
| | Croydon | 46 | 44 | 43 | Tr | - | 0·0 |
| | S. Farnborough | 45 | 43 | 41 | Tr. | - | 0·0 |
| | Winchester | 46 | 43 | 43 | Tr. | - | |
| | Boscombe Down | 46 | 42 | 41 | - | - | * |
| | Calshot, (S'thmtn) | 48 | 44 | 43 | - | - | 0·0 |
| | Dungeness | 46 | 44 | * | Tr. | - | * |
| | Lympne | 44 | 43 | 42 | 0.2 | Tr | 0·0 |
| 2 | Shoeburyness | 46 | 44 | 43 | Tr. | - | 0·0 |
| | Felixstowe | 46 | 44 | 41 | Tr. | - | 0·0 |
| | Gorleston | 44 | 42 | 41 | Tr. | - | |
| | Cranwell | 44 | 40 | 40 | - | - | 0·0 |
| 3 | Birmingham | 43 | 42 | 41 | - | - | * |
| | Upper Heyford | 45 | 42 | 41 | - | - | 0·0 |
| | Leafield | 44 | 41 | 40 | - | - | |
| 4 | Ross-on-Wye | 46 | 44 | 42 | - | - | 0·0 |
| 5 | Portland Bill | 50 | 47 | * | - | - | * |
| | Plymouth | 49 | 46 | 45 | - | - | 0·0 |
| | Falmouth | 48 | 47 | * | - | - | 0·0 |
| | Scilly (St. Mary's) | 47 | 47 | * | - | - | 0·0 |
| | Guernsey | 49 | 46 | 43 | - | - | 0·0 |
| 6 | Pembroke | 49 | 47 | * | - | - | 0·0 |
| 7 | Holyhead | 48 | 47 | 44 | Tr | - | 0·0 |
| | Chester (Sealand) | 46 | 44 | 42 | - | - | 0·0 |
| 8 | L'pool (Bidston) | 45 | 45 | 44 | - | - | 0·4 |
| 9 | Harrogate | 43 | 43 | 41 | - | - | 0·0 |
| 10 | Spurn Head | 45 | 42 | * | - | - | * |
| | Catterick | 46 | 42 | 36 | - | - | * |
| | Tynemouth | 47 | 41 | 35 | - | - | 0·0 |
| 11 | Inchkeith | 47 | 41 | 41 | - | Tr | 0·0 |
| | Leuchars | 46 | 41 | 39 | 0.1 | - | 0·0 |
| 12 | Renfrew | 47 | 42 | 41 | Tr. | 0·6 | 0·0 |
| | Eskdalemuir | 42 | 37 | 36 | - | 2 | |
| 13a | Tiree | 49 | 49 | 47 | 1 | 1 | 0·0 |
| 13b | Stornoway | 50 | 49 | * | 0·1 | 2 | 0·1 |
| 15 | Dalwhinnie | 45 | 40 | 39 | - | - | 0·0 |
| | Aberdeen | 49 | 36 | 30 | - | - | 3·7 |
| | Wick | 50 | 45 | * | - | - | * |
| 16 | Lerwick | 49 | 47 | * | 3 | 7 | 0·0 |
| 17 | Blacksod Point | 52 | 49 | * | 0·4 | 0·2 | * |
| 18 | Malin Head | 47 | 46 | * | - | Tr | 0·0 |
| | Aldergrove | 42 | 42 | 41 | Tr. | Tr | 0·0 |
| | Donaghadee | 43 | 42 | * | - | - | * |
| 19 | Birr Castle | 46 | 46 | 44 | - | - | 0·2 |
| 20 | Valentia Obsy.† | 50 | 49 | 48 | Tr. | - | 0·0 |
| | Roches Point | 48 | 47 | * | 1 | 1 | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon | Weather Night | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. (To-day) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew | 18 | cfcm. | cm. | cz.cz. | 45 | 44 | 42 | Tr | - | 0·0 | * | * | 6 |
| Croydon | 217 | cid.d.m. | cd.m. | cm.cz. | 46 | 44 | 43 | Tr | - | 0·0 | * | * | 5 |
| Greenwich (Royal Observatory) | 149 | od.fm | om.m. | om.m | 46 | 44 | 41 | Tr | - | 0·0 | 85 | 80 | 5 |
| City (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0·0 | * | * | * |
| Westminster (St. James' Park) | 27 | * | * | * | 47 | 45 | 42 | - | - | 0·0 | 85 | 88 | * |
| Regents Pk. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | 0·0 | * | * | * |
| Camden Square | 110 | o | o | * | 47 | 44 | 42 | - | - | * | * | 81 | * |
| Kensington | 80 | om | co | * | 47 | 45 | 42 | - | - | 0·0 | At 18h. 77 | 80 | * |
| Hampstead Observatory | 450 | omd | od | * | 44 | 40 | 38 | Tr | - | 0·0 | * | 86 | * |

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 14th

| South Kensington Max. | Time. | Min. | Time. |
|---|---|---|---|
| 1·0 | 11hrs 13th | Nil | 0/5hr 14th |

| Kew Observatory Max. | Time. | Min. | Time. |
|---|---|---|---|
| 0·6 | 10hrs 13th | <0·1 | 2hrs 14th |

### FOREIGN OBSERVATIONS.

18h. G.M.T. 13th December

| Stations | Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. |
|---|---|---|---|---|---|
| Paris | 1034·4 | SW | 1 | F | 41 |
| Brussels | | | | | |
| Berlin | 1025·8 | WNW | 3 | o/d | 45 |
| Zürich | | | | | |
| Rome | 1001·8 | | | b | - |

7h. G.M.T. 14th December

| Stations | Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day. mm. | Rainfall Night. mm. |
|---|---|---|---|---|---|---|---|---|---|
| Paris | 1032·3 | - | 0 | m | 39 | | 36 | | - |
| Brussels | 1030·3 | WSW | 2 | o | 41 | 41 | 41 | 1 | - |
| Berlin | 1025·0 | WSW | 4 | r.s. | 43 | 45 | 4 | 1 | 1 |
| Zürich | 1032·0 | S | 1 | z | 30 | | | | - |
| Rome | 1020·1 | E | 2 | b | 34 | | 30 | - | - |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13-18 | 9 | 47-54 |
| 1 | 1-3 | 5 | 19-24 | 10 | 55-63 |
| 2 | 4-7 | 6 | 25-31 | 11 | 64-75 |
| 3 | 8-12 | 7 | 32-38 | 12 | 75 |
| | | 8 | 39-46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | Objects not visible at |
|---|---|
| 0 Dense fog | 55 yards. |
| 1 Thick fog | 220 " |
| 2 Fog | 550 " |
| 3 Moderate fog | 1,100 " |
| 4 Mist or haze | 1¼ miles. |
| 5 Poor visibility | 2½ " |
| 6 Moderate " | 6½ " |
| 7 Good " | 12½ " |
| 8 Very good " | 31 " |
| 9 Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | |
|---|---|
| 0 Calm. | 5 Very rough. |
| 1 Smooth. | 6 High. |
| 2 Slight. | 7 Very high. |
| 3 Moderate. | 8 Precipitous. |
| 4 Rough. | 9 Confused. |

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 15th December 1931.

No. 25590

### OBSERVATIONS at 13h. G.M.T. 14th December

| District | Stations. (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0-12 (4) | Weather. (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud. Form. Low. (9) | Cloud. Form. Med. (10) | Cloud. Form. High (11) | Cloud. Amount. Low 0-10 (12) | Cloud. Amount. Total 0-10 (13) | Height of Base. (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1028.6 | -14 | W | 3 | c | 47 | 75 | 6 | 8 | - | - | 9+ | 9+ | 4000 |
| | Croydon | 1028.7 | -10 | WNW | 3 | c | 46 | 76 | 6 | 5 | 2 | - | 7.8 | 10 | 2500 |
| | S. Farnborough | 1028.9 | -12 | W | 2 | c | 46 | 75 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Winchester | 1028.9 | -13 | WNW | 2 | c | 45 | 85 | 7 | 6 | - | - | 10 | 10 | 2500 |
| | Boscombe Down | 1029.4 | -14 | W | 3 | c | 45 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Calshot, S'thmtn | 1029.6 | -14 | WSW | 2 | c | 47 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Dungeness | * | * | W | 1 | c | * | * | 7 | 8 | - | - | 10 | 10 | 1500 |
| | Lympne | 1029.1 | -8 | WNW | 2 | 0 | 44 | 86 | 6 | 5 | - | - | 10 | 10 | 2500 |
| 2 | Shoeburyness | 1028.5 | -10 | WSW | 2 | 0 | 46 | 85 | 6 | 5 | - | - | 10 | 10 | 2600 |
| | Felixstowe | 1027.7 | -12 | W | 3 | c | 46 | 85 | 6 | 5 | - | - | 10 | 10 | 1600 |
| | Gorleston | 1026.2 | -12 | WNW | 2 | c | 45 | 85 | 6 | 4 | - | - | 9+ | 10+ | 2500 |
| | Cranwell | 1025.5 | -14 | W'S | 4 | bc | 48 | 75 | 6 | - | 3 | 1 | 0 | 4.6 | - |
| 3 | Birmingham | 1027.5 | -8 | SW | 2 | c | 45 | 85 | 5 | 5 | - | - | 7.8 | 7.8 | 1500 |
| | Upper Heyford | 1028.1 | -10 | WSW | 3 | c/d | 45 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 |
| | Leafield | 1027.9 | -14 | W'S | 2 | c | 45 | 85 | 8 | 5 | 8 | - | 10 | 10 | 1600 |
| 4 | Ross-on-Wye | 1027.7 | -14 | WSW | 2 | c | 47 | 85 | 6 | 5 | - | - | 10 | 10 | 4000 |
| 5 | Portland Bill | 1029.4 | -14 | W | 1 | c | 47 | 75 | 8 | 4 | - | - | 10 | 10 | 2500 |
| | Plymouth | 1029.8 | -12 | - | 0 | 0 | 49 | 76 | 6 | 5 | - | - | 10 | 10 | 800 |
| | Falmouth | 1029.8 | -6 | SW/W | 2 | c | 48 | 75 | 7 | 5 | 2 | - | 4.6 | 10 | 4000 |
| | Scilly (St. Mary's) | 1029.6 | -14 | SW | 2 | c | 48 | 75 | 6 | 5 | - | - | 10 | 10 | 4000 |
| | Guernsey | 1029.7 | -12 | SWW | 3 | 0 | 47 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 |
| 6 | Pembroke | 1029.3 | -6 | WSW | 2 | c | 50 | 95 | 7 | 5 | - | - | 10 | 10 | 4000 |
| 7 | Holyhead | 1026.1 | -12 | WSW | 4 | c | 50 | 85 | 6 | 5 | - | - | 10 | 10 | 4000 |
| | Chester (Sealand) | 1026.5 | -8 | WSW | 3 | c | 51 | 85 | 7 | 5 | - | - | 9+ | 9+ | 2500 |
| 8 | L'pool (Bidston) | 1026.7 | -2 | W | 4 | 0 | 49 | 75 | 8 | 5 | - | - | 10 | 10 | 2500 |
| 9 | Harrogate | 1024.1 | 0 | SW | 3 | c | 48 | 85 | 8 | 6 | - | 1 | 7.8 | 9 | 2500 |
| 10 | Spurn Head | 1023.4 | -6 | WSW | 5 | c | 47 | 85 | 5 | 4 | 7 | - | 4.6 | 7.8 | 1500 |
| | Catterick | 1022.0 | -20 | W | 2 | c | 51 | 85 | 8 | 5 | 3 | 2 | 4.6 | 7.8 | 1500 |
| | Tynemouth | 1021.0 | -10 | W | 4 | bc | 50 | 85 | 6 | 2 | - | - | 4.6 | 4.6 | 2500 |
| 11 | Inchkeith | 1018.4 | -10 | SW | 5 | c | 50 | 95 | 7 | 5 | 8 | 9 | 4.6 | 9 | 2500 |
| 12 | Leuchars | 1017.0 | -18 | W | 4 | c | 53 | 75 | 8 | 5 | 9 | 9 | 1 | 9 | 1500 |
| | Renfrew | 1020.8 | -14 | WSW | 4 | c | 51 | 95 | 6 | 5 | - | 9 | 7.8 | 9+ | 800 |
| | Eskdalemuir | 1021.6 | -14 | WSW | 6 | c | 47 | 95 | 7 | 5 | - | - | 10 | 10 | 800 |
| 13A | Tiree | 1019.7 | -10 | SWW | 5 | c | 52 | 85 | 7 | 5 | 2 | - | 9+ | 10 | 1500 |
| 13B | Stornoway | 1013.2 | -12 | WSW | 6 | id. | 51 | 95 | 7 | 6 | - | - | 10 | 10 | 800 |
| 15 | Dalwhinnie | 1018.4 | -4 | SW | 3 | c | 48 | 75 | 8 | 4 | 2 | - | 7.8 | 7.8 | 1600 |
| | Aberdeen | 1014.2 | -20 | SWW | 2 | c | 52 | 75 | 7 | 5 | 9 | 1 | 2.3 | 7.8 | 5700 |
| 16 | Wick | 1011.8 | -14 | SW | 4 | c | 51 | 85 | 8 | 8 | 7 | 9 | 7.8 | 7.8 | 2500 |
| | Lerwick | 1004.3 | -32 | SW | 4 | rr | 50 | 95 | 5 | 6 | - | - | 10 | 10 | 800 |
| 17 | Blacksod Point | 1024.7 | -4 | SW | 4 | id. | 51 | 95 | 7 | 5 | - | - | 10 | 10 | 4150 |
| 18 | Malin Head | 1022.0 | -6 | SW | 4 | c | 50 | 95 | 7 | 5 | 5 | - | 4.6 | 7.8 | 1500 |
| | Aldergrove | 1023.6 | -10 | SSW | 3 | c | 48 | 95 | 6 | 5 | 2 | - | 9 | 10 | 800 |
| | Donaghadee | 1024.2 | -8 | W | 1 | c | 50 | 85 | 7 | 5 | - | - | 7.8 | 7.8 | 2500 |
| 19 | Birr Castle | 1026.3 | -6 | SW | 1 | c | 49 | 85 | 7 | 5 | - | - | 9+ | 9+ | 2500 |
| 20 | Valentia Obsy. | 1027.0 | -6 | S'E | 3 | c | 52 | 95 | 8 | 5 | - | - | 10 | 10 | 800 |
| | Roches Point | 1028.4 | -4 | W | 2 | c | 50 | 95 | 8 | 5 | - | - | 9 | 9 | 1500 |

### OBSERVATIONS at 18h. G.M.T. 14th December

| District | Stations. | Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind. Direc. (17) | Wind. Force 0-12 (18) | Weather. (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud. Form. Low. (23) | Cloud. Form. Med. (24) | Cloud. Form. High. (25) | Cloud. Amount. Low. 0-10 (26) | Cloud. Amount. Total 0-10 (27) | Height of Base (feet) (28) | State of Ground. 0-9 (29) | Sea. 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1027.6 | -14 | SW | 2 | c | 46 | 85 | 6 | 5 | 2 | - | 7.8 | 10 | 2500 | 1 | * |
| | Croydon | 1026.7 | -6 | W'S | 3 | 0 | 45 | 85 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | S. Farnborough | 1026.8 | -8 | W'S | 2 | 0 | 45 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Winchester | 1027.3 | -6 | SWW | 2 | c | 44 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Boscombe Down | 1027.9 | -8 | SW | 2 | c | 44 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | * |
| | Calshot, S'thmtn | 1028.1 | -6 | SW | 3 | c | 46 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | 1 |
| | Dungeness | * | * | W | 1 | c | * | * | 7 | 5 | - | * | 10 | 10 | 1500 | * | 0 |
| | Lympne | 1027.2 | -8 | W'S | 2 | 0 | 43 | 75 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| 2 | Shoeburyness | 1026.2 | -8 | WSW | 2 | 0 | 45 | 86 | 6 | 5 | - | - | 10 | 10 | 1600 | 0 | * |
| | Felixstowe | 1025.7 | -2 | W'S | 3 | c | 45 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 0 | 2 |
| | Gorleston | 1023.4 | -8 | W'N | 2 | c | 46 | 95 | 6 | - | 2 | - | 0 | 10 | - | 0 | 2 |
| | Cranwell | 1023.6 | -8 | WSW | 4 | bc | 45 | 85 | 6 | 6 | 3 | - | 4.6 | 4.6 | 4000 | 0 | * |
| 3 | Birmingham | 1026.4 | -8 | W | 2 | c | 47 | 75 | 6 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| | Upper Heyford | 1026.4 | -8 | SWW | 3 | c | 44 | 95 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Leafield | 1026.6 | -6 | SW'W | 2 | c | 43 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 4 | Ross-on-Wye | 1026.1 | -6 | WSW | 2 | c | 47 | 75 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| 5 | Portland Bill | 1027.9 | -6 | WNW | 1 | c | 46 | 85 | 8 | 4 | - | - | 10 | 10 | 2500 | 0 | 2 |
| | Plymouth | 1028.2 | -2 | N | 2 | 0 | 48 | 75 | 6 | 5 | - | - | 10 | 10 | 800 | 0 | 0 |
| | Falmouth | 1028.4 | 0 | W | 1 | c | 47 | 75 | 7 | 5 | 2 | - | 4.6 | 10 | 4000 | 0 | 0 |
| | Scilly (St. Mary's) | 1028.6 | -4 | SSW | 3 | c | 48 | 85 | 7 | 5 | - | - | 10 | 10 | 4000 | 1 | 0 |
| | Guernsey | 1028.4 | -2 | W'N | 2 | 0 | 47 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 0 | 1 |
| 6 | Pembroke | 1026.4 | -2 | W | 3 | c | 50 | 76 | 7 | 4 | - | - | 10 | 10 | 4000 | 0 | 2 |
| 7 | Holyhead | 1024.3 | -6 | WSW | 3 | c | 50 | 86 | 6 | 5 | - | - | 10 | 10 | 4000 | 1 | 1 |
| | Chester (Sealand) | 1024.6 | -10 | SWW | 2 | c | 49 | 76 | 6 | 5 | - | - | 10 | 10 | 4000 | 1 | * |
| 8 | L'pool (Bidston) | 1023.7 | -6 | W | 4 | 0 | 49 | 85 | 8 | 5 | - | - | 10 | 10 | 2500 | 0 | * |
| 9 | Harrogate | 1021.8 | -6 | W | 3 | c | 47 | 85 | 7 | 6 | - | -7 | 9+ | 9+ | 2500 | 1 | * |
| 10 | Spurn Head | 1022.0 | -2 | W | 3 | bc | 45 | 95 | 6 | 5 | 1 | - | 2.3 | 4.6 | 1500 | 0 | 2 |
| | Catterick | 1020.3 | -8 | W | 3 | bc | 48 | 85 | 7 | 4 | 4 | 2 | r. | 4.6 | 1500 | 0 | * |
| | Tynemouth | 1018.8 | -8 | W | 3 | bc | 50 | 85 | 6 | 2 | - | - | 4.6 | 4.6 | 2500 | 1 | 2 |
| 11 | Inchkeith | 1017.0 | -2 | WSW | 5 | c | 50 | 95 | 7 | 5 | 7 | - | 4.6 | 9 | 2500 | 0 | 3 |
| 12 | Leuchars | 1016.2 | -6 | WSW | 5 | c | 51 | 85 | 8 | 5 | - | 9 | 4.6 | 7.8 | 2500 | 1 | * |
| | Renfrew | 1019.1 | -6 | W | 4 | c | 51 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Eskdalemuir | 1019.9 | -2 | WSW | 4 | id. | 47 | 85 | 7 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| 13A | Tiree | 1018.0 | 0 | W'S | 5 | c | 50 | 95 | 7 | 5 | 2 | - | 4.6 | 9+ | 1500 | 1 | 3 |
| 13B | Stornoway | 1013.4 | +8 | WNW | 5 | id. | 49 | 95 | 7 | 6 | - | - | 10 | 10 | 800 | 1 | 3 |
| 15 | Dalwhinnie | 1015.8 | -6 | SW | 4 | c | 48 | 85 | 7 | 4 | 2 | - | 4.6 | 9 | 800 | 1 | * |
| | Aberdeen | 1012.3 | -6 | WSW | 2 | bc | 52 | 75 | 7 | 5 | 4 | 1 | 2.3 | 4.6 | 2500 | 1 | 1 |
| 16 | Wick | 1008.5 | -12 | WNW | 5 | r. | 52 | 85 | 7 | 9 | 2 | - | 7.8 | 10 | 1500 | 1 | 3 |
| | Lerwick | 1002.0 | -20 | WSW | 4 | c | 46 | 75 | 7 | 5 | - | - | 7.8 | 7.8 | 1500 | 1 | * |
| 17 | Blacksod Point | 1023.0 | -4 | SW | 3 | dd | 51 | 95 | 7 | 6 | - | - | 10 | 10 | 4150 | 1 | 3 |
| 18 | Malin Head | 1020.9 | -2 | W'N | 4 | c | 51 | 95 | 7 | 5 | 7 | - | 7.8 | 9+ | 1500 | 1 | 2 |
| | Aldergrove | 1022.9 | -2 | SSW | 3 | d.d. | 48 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| | Donaghadee | 1022.2 | -4 | W | 1 | c | 49 | 95 | 7 | 5 | - | - | 7.8 | 7.8 | 2500 | 0 | 0 |
| 19 | Birr Castle | 1024.7 | -2 | SW | 1 | c | 48 | 95 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| 20 | Valentia Obsy. | 1025.8 | +2 | S'E | 2 | c | 50 | 95 | 8 | 5 | - | - | 10 | 10 | 800 | 1 | 3 |
| | Roches Point | 1026.4 | -6 | W | 2 | c | 50 | 95 | 8 | 5 | - | - | 9 | 9 | 1500 | 0 | 2 |

### PAST 24 HOURS.

| District | Stations. | Weather. 7h.–13h. 14th. (37) | Weather. 13h.–18h. 14th. (38) | Weather. 18h. 14th to 1h. 15th. (39) | Weather. 1h.–7h. 15th. (40) |
|---|---|---|---|---|---|
| 1 | London (Kew) | c3. | cm | om. | cm. |
| | Croydon | cm.3. | c3.m. | c | cd.m. |
| | S. Farnborough | cm.c | c m. | om. | cm. |
| | Winchester | c | c | cid.e | c |
| | Boscombe Down | cm.c | c m. | c | c |
| | Calshot, S'thmtn | cr. | c | c | c |
| | Dungeness | 0 | 0 | * | bc |
| | Lympne | cm. | cm. | cm. | cm. |
| 2 | Shoeburyness | com. | om. | om. | om. |
| | Felixstowe | c3. | cm. | cm. | o |
| | Gorleston | cm. | cm. | c | c |
| | Cranwell | cm.bc | bc3. | bm.c | cm. |
| 3 | Birmingham | c | c | c | c |
| | Upper Heyford | cid. | cm. | cm. | c |
| | Leafield | c | c | c | c |
| 4 | Ross-on-Wye | c | c | c | c |
| 5 | Portland Bill | c | c | c | c |
| | Plymouth | om.c | cm. | cm. | om. |
| | Falmouth | c | c | c | c |
| | Scilly (St. Mary's) | c | c | c | p.c |
| | Guernsey | o | o | oid. | od.o |
| 6 | Pembroke | c | c | c | bc |
| 7 | Holyhead | om.c | cm. | c,id. | om. |
| | Chester (Sealand) | ocm. | cm. | com. | om.d.d. |
| 8 | L'pool (Bidston) | o | o | o | oor. |
| 9 | Harrogate | c | bcc | c | cir |
| 10 | Spurn Head | ocm | cmfbc | bcibc | bcco |
| | Catterick | bcc | bc | bcb | bccr. |
| | Tynemouth | bc | bc | bcc | coir. |
| 11 | Inchkeith | c | c | c | cor.r. |
| 12 | Leuchars | bbcc | cbcq | bcq | bcqb |
| | Renfrew | cid.c.m. | cidc | cid.c | co |
| | Eskdalemuir | oid.c | cid.c | cid. | oid.kq |
| 13A | Tiree | c | cid. | cdrdr | cid. |
| 13B | Stornoway | oid. | oid. | bc | bc |
| 15 | Dalwhinnie | bc | id | * | bc |
| | Aberdeen | bc3.c | cbc | cpR | bccpr |
| 16 | Wick | c | cir | cbcpr | bcpr |
| | Lerwick | orrm. | orrm.c | cir.pr. | c |
| 17 | Blacksod Point | id.o | dd | ir | oc |
| 18 | Malin Head | cdm.c | ce | cid. | oid.m.m. |
| | Aldergrove | oid. | cd.do | od. | cid. |
| | Donaghadee | c | c | bcc | c |
| 19 | Birr Castle | c | c | c | cr.c |
| 20 | Valentia Obsy. | c | c | c | c |
| | Roches Point | c | c | c | c |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220-1100 yds.
p, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s$_o$, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s$_o$/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus.
R, heavy rain. r$_o$, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ☾, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

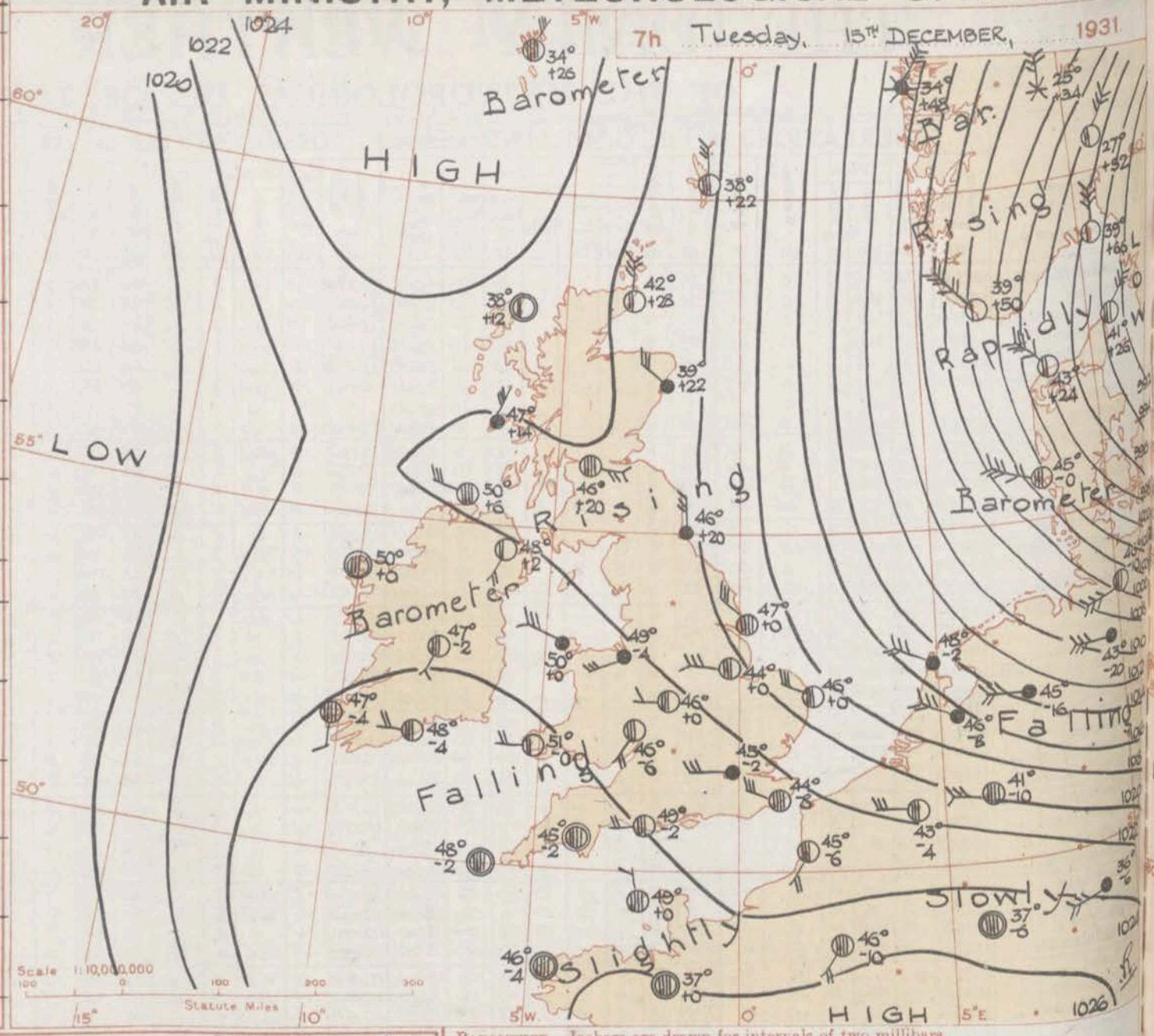
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for 14th December 1931.

| Districts | Stations | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 13th to 9h. 14th | Temperature. Max. 9h.—17h. 14th | Rainfall. Night. 17h. 13th to 9h. 14th | Rainfall. Day. 9h.—17h. 14th | Sunshine. Sunrise to Sunset. 14th |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | o | o | 43 | 45 | Trace | - | 0.0 |
| | Bournemouth | o | o | 44 | 47 | - | - | 0.0 |
| | Ventnor ... | o | o | 44 | 47 | - | - | 0.0 |
| | Southsea ... | om | om | 45 | 48 | - | - | 0.0 |
| | Bognor Regis | o | o | 44 | 47 | - | - | 0.0 |
| | Littlehampton | c | c | 44 | 46 | - | - | 0.0 |
| | Worthing ... | co | co | 45 | 47 | - | - | 0.0 |
| | Brighton ... | mo | o | 45 | 47 | - | - | 0.0 |
| | Eastbourne† | o | o | 45 | 49 | - | - | 0.0 |
| | Hastings† ... | o | o | 44 | 47 | Trace | - | 0.0 |
| | Folkestone ... | om | om | 44 | 46 | - | - | 0.0 |
| | Dover... ... | o | o | 45 | 46 | - | - | 0.0 |
| | Deal ... ... | o | o | 44 | 46 | 0.3 | - | 0.0 |
| | Ramsgate ... | o | o | 43 | 46 | - | - | 0.0 |
| | Margate ... | c | c | 44 | 46 | - | - | 0.0 |
| 2 | Southend ... | om | om | 44 | 45 | - | - | 0.0 |
| | Maldon ... | o | o | 43 | 46 | - | - | 0.0 |
| | Clacton-on-Sea | c | c | 44 | 46 | - | - | 0.0 |
| | Dovercourt ... | oc | oc | 43 | 46 | - | - | 0.0 |
| | Lowestoft ... | c | c | 42 | 45 | - | - | 0.0 |
| | Skegness ... | obcm | com | 40 | 48 | - | - | 0.5 |
| | Mablethorpe | bc | bcm | 40 | 49 | - | - | 3.6 |
| | Cleethorpes ... | b | bc | 45 | 49 | - | - | 2.9 |
| 3 | Leamington S. | o | o | 43 | 46 | - | - | 0.0 |
| 4 | Cheltenham† | cm.oe | oceo | 43 | 46 | - | Trace | 0.0 |
| 5 | Bath ... ... | cm | m.c | 45 | 48 | - | - | 0.0 |
| | Weymouth ... | c | c | 45 | 48 | - | - | 0.0 |
| | Jersey ... | c | c | 45 | 49 | - | - | 0.0 |
| | Torquay ... | cm | com | 45 | 49 | - | - | 0.0 |
| | Penzance ... | om | om | 46 | 48 | - | - | 0.0 |
| | St. Ives ... | o | o | 46 | 49 | - | - | 0.0 |
| | Bude ... ... | o | o | 45 | 51 | - | - | 0.0 |
| | Ilfracombe ... | o | o | 45 | 50 | - | - | 0.0 |
| 6 | Aberystwyth | cd.c | c | 45 | 49 | 0.5 | - | 0.0 |
| 7 | Llandudno ... | c | c | 44 | 50 | - | - | 0.0 |
| | Colwyn Bay... | o | obcc | 40 | 51 | - | - | 0.7 |
| | Rhyl ... ... | c | c | 43 | 51 | - | - | 0.0 |
| 8 | Wallasey ... | c | c | 43 | 50 | - | - | 0.0 |
| | Southport‖ ... | oc | c | 46 | 50 | - | - | 0.0 |
| | Blackpool ... | o | o | 45 | 50 | - | - | 0.0 |
| | Morecambe ... | c | c | 44 | 49 | - | - | 0.0 |
| 9 | Ilkley... ... | cod.c | cbcc | 42 | 49 | - | Trace | 0.0 |
| 10 | Berwick-on-T. | cbc | bc | 40 | 52 | - | - | 2.4 |
| 11 | Dunbar ... | cbc | bc | 41 | 53 | - | - | 0.9 |
| 12 | Douglas ... | ocb | cbc | 41 | 51 | Trace | Trace | 1.5 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

## AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ⁼ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 15th Dec., 1931.

| Districts | Forecasts |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands<br>4. W. Midlands | Wind west to northwest, veering northeast or east; mainly light or moderate; cloudy, occasional slight rain; mild, becoming colder later. |
| 5. S.W. England<br>6. South Wales | Light variable breeze; cloudy, slight drizzle locally; mild. |
| 7. North Wales<br>8. N.W. England<br>9. N. Midlands<br>10. N.E. England | Wind variable, then mainly easterly, light or moderate; cloudy, slight rain at times; colder. |
| 11. S.E. Scotland<br>12. S.W. Scotland & Isle of Man | Light or moderate northerly winds, veering east; variable cloud, local showers of rain or sleet; colder than of late. |
| 13. A. W. Scotld. B. N.W. Scotland | Light northeast wind, veering east to southeast; fair; rather cold, frost at night, perhaps less settled and milder tomorrow. |
| 14. Mid-Scotland<br>15. N.E. Scotland | As 11 - 12. |
| 16. Orkneys and Shetlands. | Fresh northerly wind becoming variable or southeast, light; variable cloud, local sleet showers; cold. |
| 17. N.W. Ireland<br>18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland | Wind variable, light, then freshening from south; cloudy, local drizzle; mild. |

cond -

### GENERAL INFERENCE.

A deep depression over the Baltic will move quickly away eastward, and an anticyclone over Eastern Iceland will move southeast and develop somewhat. A deep depression on the Atlantic is advancing slowly. Colder winds from north veering east will extend from Scotland over most of England and Wales, with slight rain along their boundary.

### FURTHER OUTLOOK.

None issued.

Forecasts issued at 1000 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

H.M. Stationery Office Press Kingsway W.C.2.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 15th December 1931.

No. 25590

### OBSERVATIONS at 1 hr. G.M.T. 15th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1024·5 | -10 | W | 4 | c | 45 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot (S'thmtn) | 8 | 1025·8 | -10 | W'S | 2 | c | 46 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1024·9 | -12 | W | 3 | c | 43 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1020·5 | -16 | WNW | 3 | c | 45 | 95 | 6 | - | 2 | - | 0 | 10 | - |
| | Cranwell | 240 | 1020·9 | -16 | W'S | 4 | c | 45 | 85 | 6 | 5 | 7 | 6 | 2-3 | 7-8 | 2500 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1025·3 | -10 | W | 3 | c | 49 | 65 | 8 | 4 | - | - | 10 | 10 | 2500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1026·4 | -6 | WSW | 2 | c | 47 | 85 | 7 | 5 | 2 | - | 4-6 | 10 | 4000 |
| | Scilly (St. Mary's) | 163 | 1026·4 | -10 | WSW | 4 | c | 49 | 85 | 7 | 5 | - | - | 10 | 10 | 4000 |
| | Guernsey | 175 | 1026·3 | -10 | W | 2 | id. | 46 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 |
| 6 | Pembroke | 142 | 1024·1 | -10 | W'S | 3 | c | 51 | 75 | 7 | 5 | - | - | 10 | 10 | 4000 |
| 7 | Holyhead | 26 | 1022·5 | -12 | W'S | 4 | c/d. | 49 | 95 | 6 | 5 | - | - | 10 | 10 | 800 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1018·5 | -10 | W | 5 | bc | 45 | 95 | 6 | 4 | 1 | - | 2-3 | 4-6 | 2500 |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1015·9 | -8 | W | 5 | c | 50 | 85 | 6 | 6 | - | - | 10 | 10 | 1500 |
| 11 | Inchkeith | 190 | 1016·8 | +4 | WSW | 4 | c | 49 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1019·2 | +16 | - | 0 | bc | 41 | 95 | 7 | 4 | - | - | 2-3 | 2-3 | 4000 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1016·4 | +26 | NW | 5 | pr | 42 | 85 | 8 | 8 | 1 | - | 4-6 | 4-6 | 2500 |
| 16 | Lerwick | 54 | 1013·4 | +40 | NW | 5 | c | 41 | 85 | 7 | 6 | - | - | 7-8 | 7-8 | 1500 |
| 17 | Blacksod Point | 18 | 1023·0 | 0 | SW | 2 | c | 51 | 95 | 6 | - | 2 | - | 0 | 10 | - |
| 18 | Malin Head | 52 | 1020·7 | 0 | W'N | 4 | id. | 50 | 95 | 7 | 5 | - | - | 10 | 10 | 800 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1024·9 | 0 | S | 4 | 0 | 50 | 75 | 8 | 5 | - | - | 10 | 10 | 1500 |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 15th December

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1022·7 | -6 | SW'W | 3 | c | 46 | 85 | 6 | 5 | 2 | - | 7-8 | 10 | 2500 | 1 | * |
| | Croydon | 1023·1 | -2 | W | 3 | id. | 45 | 85 | 6 | 5 | 2 | - | 7-8 | 10 | 1500 | 1 | * |
| | S. Farnborough | 1023·3 | -4 | W'S | 1 | c | 45 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 0 | * |
| | Winchester | 1023·4 | -6 | W'S | 3 | c | 44 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Boscombe Down | 1024·0 | -6 | WNW | 2 | c | 44 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 0 | * |
| | Calshot (S'thmtn) | 1024·5 | -4 | W'S | 3 | c | 46 | 85 | 7 | 5 | 3 | - | 4-6 | 10 | 4000 | 0 | 1 |
| | Dungeness | * | * | SW | 2 | c | * | * | 7 | 8 | 2 | * | 9 | 9+ | 2500 | * | 1 |
| | Lympne | 1023·2 | -8 | W'N | 3 | c | 44 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| 2 | Shoeburyness | 1022·4 | -6 | WSW | 3 | o | 46 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 0 | * |
| | Felixstowe | 1021·4 | 0 | NW'W | 3 | c | 46 | 95 | 7 | 5 | 1 | - | 10 | 10 | 4000 | 0 | 2 |
| | Gorleston | 1019·4 | 0 | WNW | 3 | c | 46 | 95 | 6 | - | 2 | - | 0 | 10 | - | 0 | 2 |
| | Cranwell | 1020·5 | 0 | W | 4 | c | 44 | 95 | 6 | 5 | 7 | 1 | 4-6 | 9 | 2500 | 0 | * |
| 3 | Birmingham | 1022·5 | 0 | W | 1 | c | 46 | 85 | 6 | 5 | 3 | - | 4-6 | 9 | 2500 | 1 | * |
| | Upper Heyford | 1023·6 | -6 | W | 3 | c | 45 | 85 | 7 | 5 | - | - | 7-8 | 7-8 | 2500 | 0 | * |
| | Leafield | 1022·8 | -6 | NW | 1 | c | 44 | 85 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| 4 | Ross-on-Wye | 1023·2 | -6 | SW | 2 | c | 46 | 85 | 7 | 5 | - | - | 9+ | 9+ | 4000 | 1 | * |
| 5 | Portland Bill | 1024·3 | -2 | W | 2 | c | 49 | 75 | 8 | 4 | - | - | 10 | 10 | 2500 | 0 | 2 |
| | Plymouth | 1025·3 | -2 | - | 0 | o | 45 | 85 | 5 | 5 | - | - | 10 | 10 | 800 | 0 | 0 |
| | Falmouth | 1025·2 | -2 | W'N | 2 | c | 49 | 65 | 8 | 5 | 2 | - | 4-6 | 10 | 4000 | 0 | 0 |
| | Scilly (St. Mary's) | 1025·6 | -2 | - | 0 | c | 48 | 95 | 7 | 5 | - | - | 10 | 10 | 4000 | 1 | 1 |
| | Guernsey | 1025·3 | 0 | N'W | 1 | o | 49 | 65 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | 2 |
| 6 | Pembroke | 1024·4 | 0 | W | 2 | bc | 51 | 95 | 7 | 8 | 6 | - | 2-3 | 4-6 | 4000 | 0 | 2 |
| 7 | Holyhead | 1022·6 | 0 | WNW | 4 | id. | 50 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | 2 |
| | Chester (Sealand) | 1022·1 | -4 | W'S | 3 | d.d. | 49 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| 8 | L'pool (Bidston) | 1021·4 | 0 | W'N | 5 | ir. | 48 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 9 | Harrogate | 1020·2 | 0 | SW'W | 2 | ir | 48 | 95 | 7 | 6 | 2 | - | 9 | 10 | 2500 | 1 | * |
| 10 | Spurn Head | 1019·0 | 0 | NW | 3 | c | 47 | 95 | 7 | - | 2 | - | 0 | 10 | - | 0 | 2 |
| | Catterick | 1021·0 | +18 | - | 0 | id. | 43 | 95 | 5 | 8 | - | - | 10 | 10 | 800 | 1 | * |
| | Tynemouth | 1020·6 | +20 | N | 3 | ir. | 46 | 85 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | 2 |
| 11 | Inchkeith | 1020·4 | +16 | ENE | 3 | c | 44 | 85 | 8 | 5 | 2 | - | 2-3 | 9 | 4000 | 0 | 2 |
| | Leuchars | 1021·2 | +18 | NNW | 2 | bc | 40 | 75 | 7 | 5 | 3 | 8 | Tr. | 2-3 | 2500 | 1 | * |
| 12 | Renfrew | 1021·2 | +20 | E | 4 | o | 46 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Eskdalemuir | 1021·5 | +30 | NE | 3 | id. | 41 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| 13A | Tiree | 1021·6 | +14 | N'E | 3 | ir. | 47 | 75 | 8 | 5 | 7 | - | 7-8 | 9+ | 2500 | 0 | 3 |
| 13B | Stornoway | 1022·4 | +12 | - | 0 | bc | 48 | 95 | 8 | 6 | - | - | 4-6 | 4-6 | 2500 | 1 | 0 |
| 15 | Dalwhinnie | | +20 | - | 0 | bc | 35 | 85 | 7 | 4 | 2 | - | 4-6 | 4-6 | 1500 | 0 | 4 |
| | Aberdeen | 1021·4 | +22 | NW | 3 | pr | 39 | 95 | 7 | 8 | - | - | 7-8 | 7-8 | 2500 | 1 | 1 |
| | Wick | 1021·2 | +28 | N | 5 | bc | 42 | 75 | 8 | 8 | 1 | - | 4-6 | 4-6 | 2500 | 1 | 3 |
| 16 | Lerwick | 1020·2 | +22 | N | 3 | c | 38 | 75 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 0 | * |
| 17 | Blacksod Point | 1023·4 | 0 | - | 0 | c | 50 | 95 | 7 | 5 | - | - | 9 | 9 | * | 0 | 3 |
| 18 | Malin Head | 1021·4 | +6 | W'N | 3 | o/d | 50 | 95 | 5 | 5 | - | - | 10 | 10 | 450 | 1 | 2 |
| | Aldergrove | 1022·3 | +2 | SW'S | 2 | bc | 48 | 95 | 7 | 5 | - | - | 4-6 | 4-6 | 800 | 1 | * |
| | Donaghadee | 1021·5 | +2 | SW | 1 | c | 50 | 95 | 7 | 5 | - | - | 7-8 | 7-8 | 2500 | 0 | 0 |
| 19 | Birr Castle | 1023·4 | -2 | SW | 1 | c | 47 | 95 | 7 | 5 | - | - | 7-8 | 7-8 | 2500 | 1 | * |
| 20 | Valentia Obsy.† | 1024·1 | -4 | S | 1 | c | 47 | 95 | 8 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Roches Point | 1024·8 | -4 | W | 2 | c | 48 | 95 | 8 | 5 | - | - | 9 | 9 | 1500 | 0 | 2 |

### PAST 24 HOURS.

| Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F. (32) | Temperature Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 14th Hrs. (36) |
|---|---|---|---|---|---|---|
| London (Kew) | 47 | 45 | 43 | - | - | 0·0 |
| Croydon | 46 | 45 | 44 | - | Tr. | 0·0 |
| S. Farnborough | 46 | 44 | 42 | - | - | 0·0 |
| Winchester | 46 | 43 | 43 | - | Tr. | 0·0 |
| Boscombe Down | 46 | 43 | 42 | - | - | * |
| Calshot (S'thmtn) | 47 | 45 | 43 | - | - | 0·0 |
| Dungeness | 47 | 44 | * | - | - | * |
| Lympne | 44 | 42 | 41 | - | - | 0·0 |
| Shoeburyness | 46 | 43 | 44 | - | - | 0·0 |
| Felixstowe | 46 | 44 | 43 | - | - | 0·0 |
| Gorleston | 46 | 44 | 41 | - | - | 0·0 |
| Cranwell | 48 | 43 | 40 | - | - | 3·9 |
| Birmingham | 47 | 44 | 43 | - | - | 0·0 |
| Upper Heyford | 45 | 44 | 42 | Tr. | - | * |
| Leafield | 45 | 43 | 41 | - | - | 0·0 |
| Ross-on-Wye | 47 | 46 | 43 | - | - | 0·0 |
| Portland Bill | 48 | 46 | * | - | - | * |
| Plymouth | 49 | 45 | 43 | - | - | 0·0 |
| Falmouth | 48 | 47 | * | - | - | 0·0 |
| Scilly (St. Mary's) | 48 | 47 | * | - | Tr. | 0·0 |
| Guernsey | 48 | 46 | 43 | - | 0·1 | 0·0 |
| Pembroke | 51 | 47 | * | - | - | 0·0 |
| Holyhead | 51 | 49 | 47 | - | 0·1 | 0·0 |
| Chester (Sealand) | 51 | 48 | 45 | - | Tr. | 0·0 |
| L'pool (Bidston) | 49 | 47 | 46 | - | 0·1 | 0·0 |
| Harrogate | 48 | 47 | 44 | - | 0·2 | 0·5 |
| Spurn Head | 47 | 43 | * | - | - | 1·6 |
| Catterick | 52 | 43 | 40 | - | 0·4 | * |
| Tynemouth | 50 | 44 | 42 | - | 1 | * |
| Inchkeith | 51 | 42 | 40 | - | 1 | 0·3 |
| Leuchars | 53 | 40 | 32 | - | - | 0·0 |
| Renfrew | 51 | 46 | 45 | Tr. | Tr. | 0·0 |
| Eskdalemuir | 48 | 40 | 39 | 1 | 1 | 0·0 |
| Tiree | 52 | 46 | 43 | Tr. | 1 | 0·0 |
| Stornoway | 52 | 36 | * | 2 | 0·1 | 0·0 |
| Dalwhinnie | 49 | 33 | 30 | 0·6 | - | 0·0 |
| Aberdeen | 55 | 38 | 33 | - | 1 | * |
| Wick | 52 | 38 | * | 0·2 | 0·5 | 0·0 |
| Lerwick | 50 | 37 | * | 6 | 1 | * |
| Blacksod Point | 52 | 47 | * | 1 | 0·1 | 0·5 |
| Malin Head | 49 | * | * | 0·5 | 0·5 | 0·0 |
| Aldergrove | 48 | 46 | 45 | Tr. | Tr. | * |
| Donaghadee | 51 | 47 | * | - | - | |
| Birr Castle | 49 | 46 | 43 | - | Tr. | 0·0 |
| Valentia Obsy.† | 52 | 47 | 45 | - | - | 0·0 |
| Roches Point | 51 | 47 | * | - | - | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon (24 hrs. ended 9h.) | Weather Night (24 hrs. ended 9h.) | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset, hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. (To-day) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew | 18 | c3. | cm | cm. | 47 | 45 | 43 | - | - | 0·0 | * | * | 6 |
| Croydon | 217 | cm. | cm. | cd.m. | 46 | 45 | 44 | - | Tr. | 0·0 | * | * | 6 |
| Greenwich (Royal Observatory) | 149 | om | om | om.m | 46 | 45 | 42 | - | - | 0·0 | 75 | 78 | 4 |
| City (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0·0 | * | * | * |
| Westminster (St. James' Park) | 27 | * | * | * | 47 | 45 | 42 | — | | 0·0 | 72 | 77 | * |
| Regents Pk. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | 0·0 | * | * | * |
| Camden Square | 110 | oc | c | * | 47 | 45 | 43 | - | - | * | | 81 | * |
| Kensington | 80 | co | co | * | 47 | 46 | 42 | - | - | 0·0 | At 18h. 78 | 79 | * |
| Hampstead Observatory | 450 | o | c | * | 45 | 41 | 38 | - | - | 0·0 | * | 85 | * |

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 15th

| South Kensington Max. | Time. | Min. | Time. |
|---|---|---|---|
| 1·3 | 2h. 14th | Nil | 0h.-6h. 15th |

| Kew Observatory Max. | Time. | Min. | Time. |
|---|---|---|---|
| 0·6 | 10h. 14th | 0·1 | 2h. 15th |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 14th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 15th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day. mm. | Rainfall Night. mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris | 1029·5 | W | 2 | o | 41 | 1025·1 | SW | 2 | o | 46 | 43 | 41 | Tr. | - |
| Brussels | 1026·3 | WSW | 4 | o | 41 | 1021·4 | W | 3 | c | 43 | 42 | 41 | Tr. | - |
| Berlin | 1017·7 | WSW | 5 | o | 41 | | | | | | 45 | | 0·5 | |
| Zürich | 1029·6 | S | 1 | o | 30 | 1026·6 | W | 1 | o | 28 | 34 | 27 | - | - |
| Rome | 1019·8 | ENE | 4 | b | 46 | 1022·6 | ENE | 2 | bc | 34 | 63 | 31 | - | |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13–18 | 9 | 47–54 |
| 1 | 1–3 | 5 | 19–24 | 10 | 55–63 |
| 2 | 4–7 | 6 | 25–31 | 11 | 64–75 |
| 3 | 8–12 | 7 | 32–38 | 12 | 75 |
| | | 8 | 39–46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | Objects not visible at |
|---|---|
| 0 Dense fog | 55 yards. |
| 1 Thick fog | 220 " |
| 2 Fog | 550 " |
| 3 Moderate fog | 1,100 " |
| 4 Mist or haze | 1½ miles. |
| 5 Poor visibility | 2½ " |
| 6 Moderate " | 6½ " |
| 7 Good " | 12½ " |
| 8 Very good " | 31 " |
| 9 Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | |
|---|---|
| 0 Calm. | 5 Very rough. |
| 1 Smooth | 6 High. |
| 2 Slight. | 7 Very high. |
| 3 Moderate. | 8 Precipitous. |
| 4 Rough. | 9 Confused. |

TERMS OF SUBSCRIPTION. { Single Copies, 1d. each; by post 1½d. 2/6 per month; 6/6 per quarter; 25/- per year.

METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

Page 1.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 16th December 1931.

No. 25,591.

OBSERVATIONS at 13h. G.M.T. 15th December — OBSERVATIONS at 18h. G.M.T. 15th December — PAST 24 HOURS.

| District | Stations (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) | Weather 7h.–13h. 15th (37) | Weather 13h.–18h. 15th (38) | Weather 18h. 15th to 1h. 16th (39) | Weather 1h.–7h. 16th (40) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) ... | 1022.8 | -4 | WN | 1 | c | 49 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 1024.4 | +10 | NW | 1 | df | 48 | 95 | 3 | 6 | - | - | 10 | 10 | 800 | 1 | • | czo | cdo odf | fom | czo |
| | Croydon ... | 1023.1 | -2 | NWW | 2 | o | 48 | 86 | 5 | 5 | - | - | 10 | 10 | 1500 | 1024.0 | +8 | NW | 1 | df | 47 | 95 | 2 | 5 | - | - | 10 | 10 | 450 | 1 | • | cmozo | omffdd | ofddmo | cmo |
| | S. Farnborough | 1023.2 | -6 | WN | 2 | c | 50 | 75 | 6 | 5 | - | - | 9+ | 9+ | 2600 | 1024.4 | +10 | W | 1 | dodo | 47 | 95 | 5 | 6 | - | - | 10 | 10 | 450 | 1 | • | cmo | odo do | oid mo | oodmoo → odcidomo |
| | Winchester ... | 1023.6 | -6 | WN | 3 | c | 49 | 86 | 7 | 5 | - | - | 9+ | 9+ | 4000 | 1024.5 | +6 | WNW | 2 | o/d | 47 | 95 | 6 | 5 | - | - | 10 | 10 | 450 | 1 | • | cmo | cododmo | ~~oirомо~~ | ~~oiromo~~ → cido |
| | Boscombe Down | 1023.8 | -6 | NW | 3 | c | 49 | 85 | 6 | 5 | - | - | 9+ | 9+ | 4000 | 1024.6 | +6 | NW | 3 | dodo | 47 | 96 | 4 | 5 | - | - | 10 | 10 | 220 | 1 | • | cmo | coddm | ~~oddidomo~~ oiromo | ~~cido~~ oiro mo |
| | Calshot, S'thmtn | 1024.2 | -4 | NWW | 2 | c | 49 | 85 | 6 | 5 | - | - | 10 | 10 | 4000 | 1024.4 | +2 | NWW | 2 | c | 49 | 95 | 6 | 5 | - | - | 10 | 10 | 4000 | 0 | 0 | cmo | cmo | oidoorg | cidomo |
| | Dungeness ... | * | * | W | 2 | o | * | * | 6 | 5 | - | - | 10 | 10 | 2500 | * | * | NW | 1 | cf | * | * | 3 | 5 | - | * | 10 | 10 | 2500 | * | 0 | o | d | * | o |
| | Lympne ... | 1023.0 | -4 | NWN | 3 | o | 46 | 85 | 5 | 5 | - | - | 10 | 10 | 1500 | 1024.2 | +8 | NE | 3 | o/f | 45 | 95 | 5 | 5 | - | - | 10 | 10 | 800 | 1 | • | cmo | odof | ororomo | oiro |
| 2 | Shoeburyness | 1022.5 | 0 | WNW | 3 | ido | 48 | 96 | 5 | 6 | - | - | 10 | 10 | 2600 | 1024.6 | +10 | N | 1 | dodo | 45 | 96 | 5 | 6 | - | - | 10 | 10 | 800 | 1 | • | ocdo mo | ododom | odoc | cbc |
| | Felixstowe ... | 1022.2 | +4 | N'W | 3 | dodo | 47 | 95 | 5 | 5 | - | - | 10 | 10 | 800 | 1024.6 | +16 | N | 2 | c | 45 | 96 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 1 | cododomo | ododocm | cdomo | czo |
| | Gorleston ... | 1021.6 | +10 | N | 2 | c | 47 | 95 | 6 | 4 | - | - | 10 | 10 | 1500 | 1023.9 | +10 | NE | 3 | c | 46 | 75 | 6 | 5 | - | - | 7.8 | 7.8 | 1500 | 0 | 2 | cmc | cpro | cbcpr | bcc |
| | Cranwell ... | 1023.4 | +16 | NNE | 1 | dodo | 43 | 95 | 4 | 6 | - | - | 10 | 10 | 220 | 1025.4 | +10 | NWN | 1 | c | 42 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | • | dfm | dodo | cmo | cmo |
| 3 | Birmingham ... | 1023.2 | +2 | NW | 2 | dodo | 48 | 95 | 4 | 5 | - | - | 10 | 10 | 450 | 1026.2 | +12 | ENE | 3 | dodo | 43 | 96 | 4 | 5 | - | - | 10 | 10 | 450 | 1 | • | oido | odod. | oido | oddo |
| | Upper Heyford | 1023.6 | +2 | NWW | 2 | c | 48 | 86 | 7 | 5 | - | - | 10 | 10 | 1500 | 1025.3 | +20 | NE'E | 2 | roro | 44 | 96 | 6 | 6 | - | - | 10 | 10 | 450 | 1 | • | cro | dodoro | roido | dodo |
| | Leafield ... | 1023.0 | 0 | WNW | 2 | c | 47 | 95 | 7 | 5 | - | - | 10 | 10 | 2600 | 1024.2 | +6 | NWN | 2 | ido | 47 | 95 | 6 | 6 | - | - | 10 | 10 | 450 | 1 | • | c | coido | cdo | ododo |
| 4 | Ross-on-Wye ... | 1023.2 | +4 | SW | 2 | c | 50 | 85 | 8 | 5 | - | - | 10 | 10 | 2500 | 1024.2 | +6 | WSW | 1 | ido | 49 | 95 | 5 | 6 | - | - | 10 | 10 | 2500 | 1 | • | c | codo | omid | ododom |
| 5 | Portland Bill... | 1024.0 | -6 | W | 2 | c | 50 | 85 | 7 | 4 | - | - | 10 | 10 | 2500 | 1024.6 | +4 | W | 2 | c | 50 | 85 | 6 | 4 | 7 | - | 7.8 | 10 | 2500 | 0 | 2 | c | c | c | croir |
| | Plymouth ... | 1025.2 | -2 | - | 0 | o | 48 | 85 | 4 | 5 | - | - | 10 | 10 | 800 | 1025.4 | +2 | - | 0 | o | 49 | 85 | 4 | 6 | - | - | 10 | 10 | 800 | 1 | 0 | omofm | cm | omet | cbcw |
| | Falmouth ... | 1026.6 | +2 | - | 0 | c | 49 | 75 | 7 | 5 | - | - | 10 | 10 | 4000 | 1025.3 | +2 | NWW | 2 | c | 50 | 65 | 7 | 5 | - | - | 10 | 10 | 4000 | 0 | 0 | c | c | c | c |
| | Scilly (St. Mary's) | 1025.8 | -4 | WS | 2 | c | 50 | 85 | 7 | 5 | - | - | 10 | 10 | 4000 | 1026.0 | +6 | S | 2 | c | 48 | 95 | 7 | 8 | - | - | 10 | 10 | 4000 | 1 | 1 | c | c | c | c |
| | Guernsey ... | 1024.7 | -8 | - | 0 | c | 50 | 75 | 7 | 5 | - | - | 10 | 10 | 2500 | 1024.9 | +4 | - | 0 | o | 50 | 76 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | 1 | o | o | o | oorro |
| 6 | Pembroke ... | 1024.7 | -2 | WSW | 2 | c | 51 | 75 | 8 | 3 | 4 | - | 4-6 | 7.8 | 2500 | 1024.7 | +10 | NWW | 2 | c | 51 | 95 | 7 | 6 | 1 | 6 | 7.8 | 9+ | 4000 | 0 | 2 | cbc | cbc | bc | c |
| 7 | Holyhead ... | 1023.7 | +4 | NW | 4 | c | 51 | 95 | 7 | 5 | - | - | 10 | 10 | 800 | 1025.0 | +10 | NEN | 2 | ido | 50 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | 2 | doc | iroc | c,dom | dobcmo |
| | Chester (Sealand) | 1023.4 | +4 | WNW | 3 | dd | 50 | 95 | 4 | 5 | - | - | 10 | 10 | 800 | 1026.3 | +18 | NE'E | 2 | df | 45 | 95 | 3 | 5 | - | - | 10 | 10 | 450 | 1 | • | DDm | Drf | oddf | ddom |
| 8 | L'pool (Bidston) | 1022.9 | +2 | WNW | 4 | df | 49 | 95 | 2 | 5 | - | - | 10 | 10 | <150 | 1025.0 | +8 | E | 4 | df | 44 | 95 | 3 | 5 | - | - | 10 | 10 | <150 | 1 | • | oddF | oddf | ofdo | o |
| 9 | Harrogate ... | 1023.9 | +6 | N | 2 | ido | 42 | 96 | 7 | 6 | 2 | - | 4-6 | 10 | 2500 | 1026.0 | +10 | - | 0 | c | 42 | 96 | 5 | 6 | 2 | - | 9 | 10 | 2500 | 1 | • | cird | cid | c | cb |
| 10 | Spurn Head ... | 1022.4 | +8 | N | 3 | c | 45 | 95 | 7 | 8 | 2 | - | 4-6 | 9+ | 4000 | 1024.7 | +4 | NEN | 3 | c | 44 | 85 | 8 | 5 | 4 | - | 2.3 | 7.8 | 4000 | 0 | 2 | bc | cproc | bc | bo |
| | Catterick ... | 1024.2 | +6 | N | 2 | c | 44 | 86 | 7 | 5 | - | - | 10 | 10 | 4000 | 1026.6 | +18 | N | 2 | c | 41 | 95 | 4 | 5 | - | - | 9+ | 9+ | 1500 | 1 | • | dodomo o | c | cmobc | boc |
| | Tynemouth ... | 1023.7 | +16 | NNW | 1 | c | 45 | 85 | 7 | 2 | - | - | 7.8 | 7.8 | 2500 | 1026.2 | +20 | ENE | 2 | o/r | 44 | 75 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | 2 | oiro | coiro | obc | o |
| 11 | Inchkeith ... | 1024.8 | +12 | NE | 3 | c | 42 | 85 | 8 | 8 | 4 | - | 4-6 | 7.8 | 4000 | 1026.8 | +8 | ENE | 3 | c | 41 | 85 | 8 | 6 | 3 | - | 4-6 | 9 | 4000 | 0 | 2 | c | c | cy | bc |
| | Leuchars ... | 1024.3 | +12 | N | 1 | bc | 43 | 75 | 7 | 7 | - | 2 | 1 | 2.3 | 4000 | 1027.2 | +16 | NNE | 2 | c | 38 | 85 | 7 | 4 | - | - | 9+ | 9+ | 4000 | 1 | • | bcmob | bbccw | cwbx | bbcx |
| 12 | Renfrew ... | 1026.3 | +16 | ENE | 3 | c | 44 | 65 | 7 | 5 | 7 | - | 7.8 | 9+ | 4000 | 1027.5 | +16 | E | 3 | c | 42 | 75 | 6 | 5 | - | - | 10 | 10 | 4000 | 1 | • | ocmo | cmo | cmo | cmo |
| | Eskdalemuir ... | 1024.6 | +10 | N'E | 3 | c | 41 | 85 | 8 | 5 | 3 | - | 4-6 | 9 | 1500 | 1027.3 | +18 | N | 2 | bc | 37 | 85 | 8 | - | 3 | 1 | 0 | 4-6 | - | 1 | • | oidoc | cbc | bcwx | bcxcx |
| 13A | Tiree ... | 1024.0 | +8 | NE | 1 | c | 46 | 75 | 9 | 5 | 7 | - | 2.3 | 9+ | 4000 | 1026.6 | +14 | SE'E | 3 | bc | 44 | 85 | 8 | - | 7 | 9 | 0 | 4-6 | - | 0 | 2 | cbcc | c | c | c |
| 13B | Stornoway ... | 1026.0 | +4 | SE | 1 | c | 44 | 86 | 9 | 4 | 8 | 9 | 4-6 | 7.8 | 1500 | 1026.9 | +8 | NE | 2 | c | 41 | 85 | 7 | 4 | - | - | 10 | 10 | 2500 | 1 | 1 | cpro | c | bc | bcc |
| 15 | Dalwhinnie ... | 1026.1 | +16 | NE | 1 | bc | 37 | 86 | 8 | 4 | 6 | - | 2.3 | 4-6 | 800 | 1029.5 | +18 | N | 1 | c | 35 | 85 | 8 | 4 | 2 | - | 7.8 | 10 | 2500 | 0 | • | ps b | c | b | bc |
| | Aberdeen ... | 1024.8 | +12 | NWW | 3 | c | 41 | 75 | 8 | 8 | 3 | 4 | 4-6 | 7.8 | 2500 | 1027.9 | +18 | NNW | 2 | c | 39 | 65 | 7 | 5 | - | - | 9+ | 9+ | 4000 | 1 | 2 | probc | bcc | c | c |
| | Wick ... | 1025.6 | +24 | N | 4 | c | 40 | 55 | 8 | 8 | 8 | - | 7.8 | 7.8 | 2500 | 1028.1 | +12 | NNW | 3 | c | 39 | 65 | 8 | 5 | 1 | 8 | 4-6 | 9 | 2500 | 1 | 3 | bcc | c | c | c |
| 16 | Lerwick ... | 1024.3 | +8 | NNW | 3 | sh | 38 | 65 | 8 | 5 | - | - | 9+ | 9+ | 1500 | 1026.4 | +4 | N | 4 | c | 38 | 55 | 7 | 5 | 2 | - | 4-6 | 10 | 1500 | 0 | • | csh | cshy | cy | c |
| 17 | Blacksod Point | 1024.5 | +4 | - | 0 | c | 51 | 95 | 8 | 5 | - | - | 9+ | 9+ | <150 | 1024.3 | +2 | - | 0 | c | 50 | 95 | 7 | 5 | - | - | 10 | 10 | <150 | 0 | 2 | ir | ir | c | cf |
| 18 | Malin Head ... | 1023.6 | +8 | SE | 2 | iD | 48 | 96 | 4 | 5 | - | - | 10 | 10 | 450 | 1024.9 | +12 | ENE | 2 | ido | 48 | 95 | 4 | 5 | - | - | 10 | 10 | 450 | 1 | 1 | cDDmm | odomm | oidmm | omoce |
| | Aldergrove ... | 1024.0 | +8 | - | 0 | c | 50 | 95 | 7 | 5 | - | - | 10 | 10 | 450 | 1025.7 | +14 | ENE | 1 | dodo | 45 | 95 | 6 | 6 | - | - | 10 | 10 | 450 | 1 | • | bco | cdo | ododo | ododo |
| | Donaghadee ... | 1023.8 | +8 | WNW | 2 | ido | 49 | 95 | 7 | 5 | - | - | 7.8 | 7.8 | 1500 | 1027.1 | +10 | SSE | 2 | ido | 46 | 95 | 7 | 5 | - | - | 9 | 9 | 1500 | 1 | 1 | cido | cido | cido | cido |
| 19 | Birr Castle ... | 1025.1 | +4 | SW | 1 | c | 50 | 95 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 1025.4 | +6 | SW | 1 | c | 48 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | • | cidoc | c | c | c |
| 20 | Valentia Obsy. | 1024.4 | -6 | SEE | 3 | c | 51 | 75 | 9 | 5 | - | - | 9+ | 9+ | 4000 | 1024.5 | +6 | SE | 3 | c | 50 | 76 | 9 | 5 | - | - | 9+ | 9+ | 4000 | 1 | 3 | c | c | c | c |
| | Roches Point... | 1025.9 | +4 | SE | 1 | c | 50 | 95 | 8 | 5 | - | - | 9 | 9 | 4000 | 1025.3 | +6 | SE | 2 | c | 49 | 96 | 8 | 5 | - | - | 9 | 9 | 2500 | 0 | 1 | c | c | c | c |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fe, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/so, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
so/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus. R, heavy rain. $r_o$, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ⦶, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than 1/10 of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

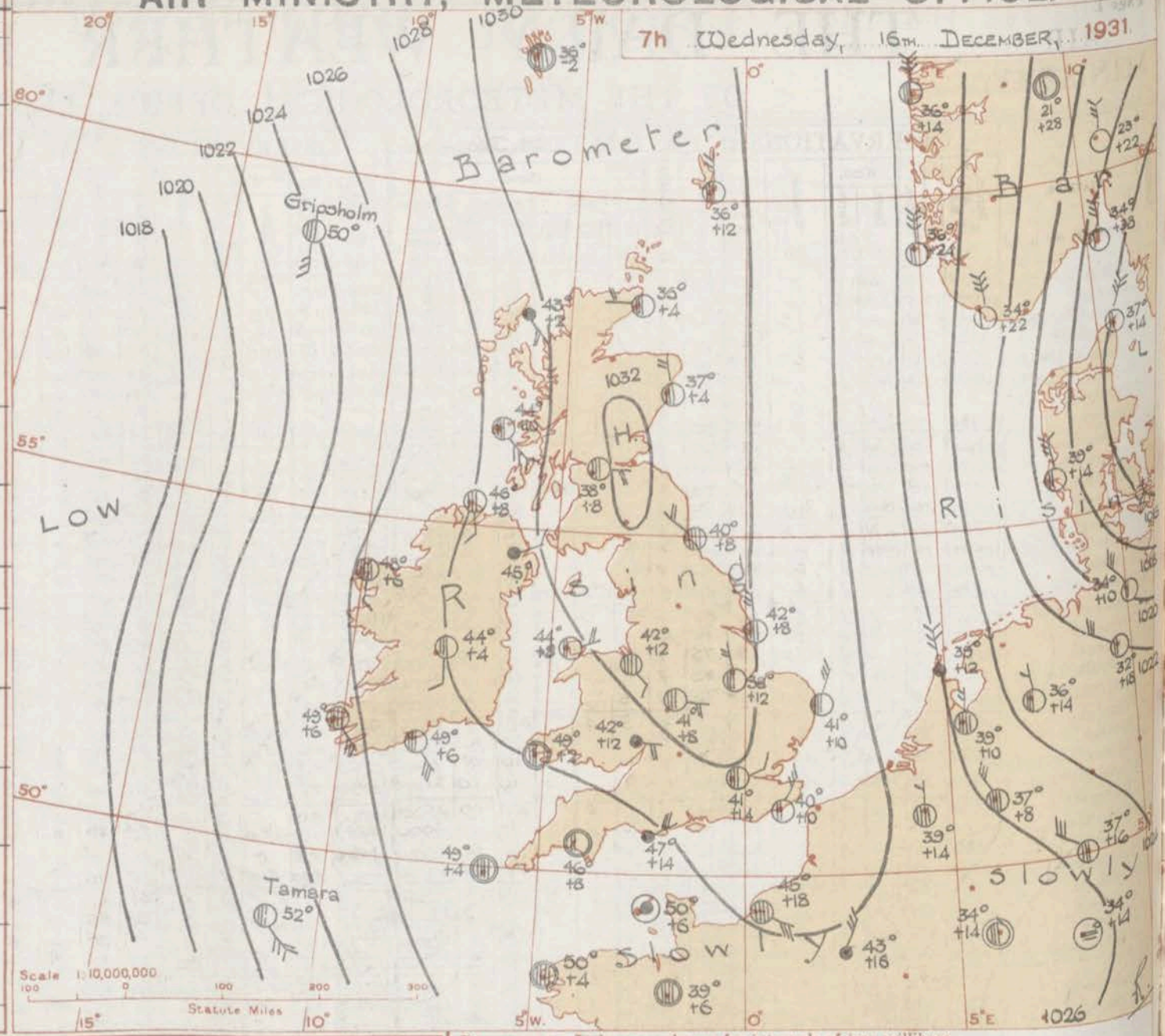
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for 15th December 1931.

| Districts. | Stations. | Weather. Fore-noon. | Weather. After-noon. | Temperature. Min. 9h. to 9h. | Temperature. Max. 9h.—17h. | Rainfall. Night. 17h. to 9h. | Rainfall. Day. 9h.—17h. | Sunshine. Sunrise to Sunset. |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | o | o | 43 | 48 | - | - | 0.0 |
| | Bournemouth | o | o | 44 | 50 | - | - | 0.0 |
| | Ventnor ... | o3ou | o3c | 44 | 49 | - | - | 0.0 |
| | Southsea ... | cm | cm | 46 | 50 | - | - | 0.0 |
| | Bognor Regis | cbcco | o | 44 | 49 | - | - | 0.1 |
| | Littlehampton | bcc | c | 44 | 49 | - | - | 0.0 |
| | Worthing ... | oc | c | 44 | 50 | - | - | 0.1 |
| | Brighton ... | oc | co | 45 | 50 | - | - | 0.0 |
| | Eastbourne† | o | o | 45 | 49 | - | - | 0.0 |
| | Hastings† ... | oco | oco | 43 | 49 | - | - | 0.0 |
| | Folkestone ... | o | oid. | 44 | 49 | - | Trace | 0.0 |
| | Dover... ... | mo | mod | 45 | 48 | - | 0.3 | 0.0 |
| | Deal ... ... | o | mor | 44 | 48 | - | 1 | 0.0 |
| | Ramsgate ... | om | orm | 44 | 48 | - | 2 | 0.0 |
| | Margate ... | c | cd | 44 | 47 | - | 1 | 0.0 |
| 2 | Southend ... | om | omd | 44 | 48 | - | 1 | 0.0 |
| | Maldon ... | o | or | 45 | 48 | - | 0.3 | 0.0 |
| | Clacton-on-Sea | coir | oirogm | 44 | 48 | - | 1 | 0.0 |
| | Dovercourt ... | oc | doc | 44 | 47 | - | 0.3 | 0.0 |
| | Lowestoft ... | od.c | coid. | 42 | 45 | Trace | Trace | 0.0 |
| | Skegness ... | om. | om. | 41 | 47 | Trace | - | 0.0 |
| | Mablethorpe | o | or.m. | 41 | 48 | Trace | Trace | 0.0 |
| | Cleethorpes ... | omv | or. | 41 | 46 | - | Trace | 0.0 |
| 3 | Leamington S. | oe | oedm | 43 | 49 | - | 0.2 | 0.0 |
| 4 | Cheltenham† | cm.o | omor. | 44 | 49 | - | 0.3 | 0.0 |
| 5 | Bath ... ... | m.c | cd.d | 46 | 50 | - | 0.3 | 0.0 |
| | Weymouth ... | mc | c | 45 | 51 | - | - | 0.0 |
| | Jersey ... | dc | c | 45 | 50 | Trace | - | 0.0 |
| | Torquay ... | cm.o | o3 | 45 | 50 | - | - | 0.0 |
| | Penzance ... | c | cm | 47 | 51 | 0.5 | - | 0.0 |
| | St. Ives ... | o | o | 46 | 52 | - | - | 0.0 |
| | Bude ... ... | o | o | 45 | 51 | - | - | 0.0 |
| | Ilfracombe ... | o | o | 47 | 52 | - | - | 0.0 |
| 6 | Aberystwyth | cid. | cid. | 48 | 49 | 0.5 | 1 | 0.0 |
| 7 | Llandudno ... | oid | Dor. | 48 | 51 | 0.2 | 2 | 0.0 |
| | Colwyn Bay... | omdo | odmrr | 48 | 51 | 0.3 | 3 | 0.0 |
| | Rhyl ... ... | ogd. | ogd.d | 48 | 50 | - | 3 | 0.0 |
| 8 | Wallasey ... | orr | orr | 47 | 49 | 0.3 | 4 | 0.0 |
| | Southport‖ ... | ocd | odo | 48 | 50 | 0.1 | 2 | 0.0 |
| | Blackpool ... | od | odo | 48 | 49 | 0.2 | 2 | 0.0 |
| | Morecambe ... | ec | eco | 47 | 49 | Trace | Trace | 0.0 |
| 9 | Ilkley... ... | cd.o | od. | 44 | 45 | 0.5 | 0.5 | 0.0 |
| 10 | Berwick-on-T. | cPR | pro | 43 | 45 | 0.5 | 0.3 | 1.0 |
| 11 | Dunbar ... | bcr. | bc | 42 | 44 | 1 | - | 0.3 |
| 12 | Douglas ... | cd.d. | oc | 47 | 50 | - | 1 | 0.0 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

## AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/8 clouded. ◑ Sky 1/8 to 4/8 clouded. ◕ Sky 5/8 to 7/8 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 16th Dec., 1931. |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands | Light wind between north and east; cloudy; local mist or perhaps fog; moderate temperature. |
| 4. W. Midlands<br>5. S.W. England<br>6. South Wales<br>7. North Wales | Light east to southeast wind; cloudy, local drizzle at first; local mist or perhaps fog; moderate temperature. |
| 8. N.W. England<br>9. N. Midlands<br>10. N.E. England<br>11. S.E. Scotland<br>12. S.W. Scotland & Isle of Man | Light variable breeze, finally mainly southerly; mainly cloudy, brighter in places; local fog; moderate or rather low temperature, with frost locally at night. |
| 13. A. W. Scotld. B. N.W. Scotland. | Freshening southerly wind; cloudy, local drizzle; rather mild. |
| 14. Mid-Scotland<br>15. N.E. Scotland<br>16. Orkneys and Shetlands. | As 8 - 12. |
| 17. N.W. Ireland | As 13. |
| 18. N.E. Ireland<br>19. S.E. Ireland | Light or moderate southeast wind; cloudy, occasional local drizzle; moderate temperature. |
| 20. S.W. Ireland | As 13. |

### GENERAL INFERENCE.

An elongated anticyclone extending from the Faeroes over the British Isles is moving southeast and a depression off South Greenland is moving a little north or northeast. Weather will be quiet and mainly cloudy with local drizzle in the West.

### FURTHER OUTLOOK.

No important change.

Forecasts issued at 0950 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

H.M. Stationery Office Press, Kingsway, W.C.2
Pk 507/230. Pt. 71. D 6001. Gp 909. 18210. 12/31

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

○ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

Page 4.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 16th December 1931.

No. 25,591.

OBSERVATIONS at 1 hr. G.M.T. 16th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew)... | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 217 | 1026.8 | +10 | NE'E | 2 | c | 43 | 95 | 6 | 5 | 2 | - | 4.6 | 10 | 1600 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester ... | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot (S'thmtn) | 8 | 1026.1 | +10 | NE | 3 | o/d | 47 | 95 | 6 | 5 | - | - | 10 | 10 | 450 |
| | Dungeness ... | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne ... | 346 | 1027.5 | +12 | NE | 3 | r.r. | 43 | 95 | 5 | 6 | - | - | 10 | 10 | 800 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston ... | 14 | 1026.9 | +10 | NNE | 3 | bc | 43 | 85 | 7 | 4 | - | - | 4.6 | 4.6 | 2500 |
| | Cranwell ... | 240 | 1028.8 | +14 | NE | 1 | c | 39 | 95 | 5 | 5 | - | - | 9+ | 9+ | 4000 |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield ... | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye ... | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill... | 32 | 1025.7 | +4 | W | 3 | c | 49 | 95 | 7 | 4 | - | - | 9 | 9 | 2500 |
| | Plymouth ... | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth ... | 200 | 1027.0 | +2 | NNW | 1 | c | 49 | 65 | 8 | 5 | 2 | - | 7-8 | 10 | 4000 |
| | Scilly (St. Mary's) | 163 | 1026.9 | +6 | WSW | 2 | c | 48 | 95 | 7 | 5 | - | - | 10 | 10 | 4000 |
| | Guernsey ... | 175 | 1025.9 | +4 | - | 0 | o | 50 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 |
| 6 | Pembroke ... | 142 | 1025.0 | +6 | - | 0 | bc | 49 | 95 | 7 | 5 | 6 | - | 4.6 | 4.6 | 4000 |
| 7 | Holyhead ... | 26 | 1027.0 | +12 | E'N | 3 | id. | 47 | 95 | 5 | 5 | - | - | 10 | 10 | 220 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (B'dston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate ... | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head ... | 29 | 1027.8 | +6 | N'E | 3 | c | 43 | 75 | 8 | - | 2 | - | 0 | 9+ | - |
| | Catterick ... | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth ... | 67 | 1029.0 | +8 | NNW | 2 | o | 42 | 65 | 7 | 5 | - | - | 10 | 10 | 1500 |
| 11 | Inchkeith ... | 190 | 1029.7 | +8 | NE | 3 | c | 40 | 85 | 9 | 5 | 7 | 8 | 2.3 | 7-8 | 5700 |
| | Leuchars ... | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew ... | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree ... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway ... | 34 | 1028.7 | +4 | ENE | 2 | bc | 38 | 85 | 8 | 4 | - | - | 4.6 | 4.6 | 4000 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen ... | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick ... | 81 | 1029.9 | +12 | NW | 2 | c | 37 | 75 | 8 | 5 | 1 | - | 7-8 | 10 | 2600 |
| 16 | Lerwick ... | 54 | 1029.3 | +6 | NNW | 2 | c | 38 | 55 | 7 | 5 | 2 | - | 4-6 | 10 | 1500 |
| 17 | Blacksod Point | 18 | 1025.6 | +6 | - | 0 | c | 49 | 85 | 7 | 5 | - | - | 10 | 10 | <150 |
| 18 | Malin Head ... | 52 | 1026.9 | +10 | - | 0 | o/d | 47 | 96 | 5 | 5 | - | - | 10 | 10 | 800 |
| | Aldergrove ... | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee ... | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1025.3 | +4 | S | 2 | o | 49 | 75 | 8 | 8 | - | - | 10 | 10 | 1500 |
| | Roches Point... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

OBSERVATIONS at 7 hr. G.M.T. 16th December — PAST 24 HOURS.

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) | Temp. Max. Day 7h-18h °F. (31) | Temp. Min. Night 18h-7h °F (32) | Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 15th Hrs. (36) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1029.5 | +12 | NE | 2 | c | 44 | 65 | 6 | 5 | 2 | - | 9 | 10 | 2500 | 1 | * | 50 | 43 | 40 | 1 | 1 | 0.0 |
| Croydon | 1029.4 | +14 | ENE | 1 | bc | 41 | 85 | 6 | 5 | 2 | - | 7-8 | 10 | 4000 | 1 | * | 48 | 41 | 39 | 0.4 | 1 | 0.0 |
| S. Farnborough | 1029.9 | +12 | NE | 1 | o | 41 | 95 | 6 | 5 | - | - | 10 | 10 | 4000 | 1 | * | 50 | 40 | 40 | Tr. | 1 | 0.0 |
| Winchester | 1029.9 | +8 | NE'E | 2 | c/d | 41 | 85 | 7 | 5 | 1 | - | 4.6 | 7-8 | 1500 | 1 | * | 50 | 41 | 40 | 0.3 | 1 | 0.0 |
| Boscombe Down | 1029.5 | +14 | ESE | 3 | o | 41 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * | 49 | 40 | 40 | 0.3 | 1 | |
| Calshot (S'thmtn) | 1028.9 | +14 | ENE | 3 | o | 44 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | 1 | 50 | 43 | 42 | - | Tr | 0.0 |
| Dungeness | * | * | E | 2 | c | * | * | 7 | 4 | 1 | * | 7-8 | 9 | 2500 | * | 1 | 48 | 41 | * | Tr. | 2 | * |
| Lympne | 1029.5 | +10 | ENE | 3 | bc | 40 | 65 | 8 | - | 3 | - | 0 | 4-6 | - | 1 | * | 46 | 38 | * | 0.1 | 0.1 | 0.0 |
| Shoeburyness | 1029.7 | +10 | N | 2 | bc | 36 | 85 | 8 | 7 | 3 | - | 2.3 | 4.6 | 5700 | 1 | * | 49 | 34 | 31 | 1 | Tr | 0.0 |
| Felixstowe | 1029.5 | +10 | N | 1 | c | 40 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 0 | 1 | 47 | 37 | 34 | 0.2 | Tr | 0.1 |
| Gorleston | 1028.7 | +10 | N'E | 3 | c | 41 | 75 | 7 | 4 | - | - | 9+ | 9+ | 2500 | 0 | 3 | 47 | 41 | 40 | Tr. | Tr | 0.0 |
| Cranwell | 1030.8 | +12 | NNW | 2 | c | 38 | 95 | 6 | 5 | - | - | 9+ | 9+ | 4000 | 1 | * | 46 | 37 | 36 | 1 | - | 0.0 |
| Birmingham | 1030.6 | +8 | E | 2 | o | 41 | 95 | 5 | 5 | - | - | 10 | 10 | 800 | 1 | * | 48 | 40 | 39 | 0.3 | 0.6 | 0.0 |
| Upper Heyford | 1030.4 | +12 | E'N | 2 | o | 41 | 95 | 7 | 5 | - | - | 10 | 10 | 4000 | 1 | * | 48 | 40 | 39 | 0.1 | 0.3 | * |
| Leafield | 1030.3 | +12 | ESE | 2 | c | 39 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * | 47 | 39 | 38 | 0.1 | 0.6 | 0.0 |
| Ross-on-Wye | 1029.2 | +12 | E | 2 | d.d. | 42 | 95 | 4 | 5 | - | - | 10 | 10 | 800 | 1 | * | 50 | 42 | 41 | 0.1 | 0.6 | 0.0 |
| Portland Bill | 1027.7 | +14 | NE'E | 3 | ir. | 47 | 95 | 7 | 4 | - | - | 10 | 10 | 2500 | 1 | 3 | 51 | 46 | * | - | 0.5 | * |
| Plymouth | 1027.7 | +8 | - | 0 | c | 46 | 95 | 8 | 5 | 1 | - | 4.6 | 4.6 | 2500 | 1 | 1 | 49 | 45 | 40 | - | - | 0.0 |
| Falmouth | 1027.6 | +4 | - | 0 | c | 48 | 85 | 8 | 5 | - | - | 9 | 9 | 4000 | 0 | 0 | 50 | 48 | * | - | - | 0.0 |
| Scilly (St. Mary's) | 1027.9 | +4 | - | 0 | c | 49 | 75 | 8 | 5 | - | - | 10 | 10 | 4000 | 0 | 0 | 50 | 47 | * | - | - | 0.0 |
| Guernsey | 1027.2 | +6 | - | 0 | r.r. | 50 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | 2 | 50 | 49 | 45 | - | 1 | 0.0 |
| Pembroke | 1028.0 | +2 | - | 0 | c | 49 | 95 | 7 | 5 | 6 | - | 9 | 10 | 4000 | 0 | 0 | 53 | 48 | * | - | 0.0 | 2.5 |
| Holyhead | 1028.3 | +8 | E'N | 2 | bc | 44 | 95 | 6 | - | 3 | 2 | 0 | 2.3 | - | 1 | 1 | 51 | 44 | 39 | 0.1 | Tr | 0.0 |
| Chester (Sealand) | 1030.5 | +12 | SE | 1 | o | 42 | 95 | 5 | 5 | - | - | 10 | 10 | 2500 | 1 | * | 51 | 42 | 41 | 4 | 2 | 0.0 |
| L'pool (B'dston) | 1030.2 | +6 | E'S | 3 | o | 42 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * | 49 | 41 | 40 | 4 | 0.5 | 0.0 |
| Harrogate | 1031.0 | +6 | - | 0 | b | 35 | 85 | 7 | 5 | - | - | 1 | 1 | 4000 | 1 | * | 48 | 35 | 29 | 1 | - | 0.0 |
| Spurn Head | 1029.3 | +8 | NNW | 3 | c | 42 | 75 | 8 | 4 | 2 | - | 4.6 | 9+ | 2500 | 0 | 2 | 47 | 42 | * | Tr. | - | 0.0 |
| Catterick | 1031.0 | +6 | NNW | 2 | c | 35 | 85 | 7 | 5 | - | - | 7-8 | 7-8 | 2500 | 1 | * | 44 | 33 | 25 | 0.2 | - | * |
| Tynemouth | 1030.5 | +8 | NW | 2 | o | 40 | 75 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | 2 | 46 | 39 | 37 | 0.3 | - | * |
| Inchkeith | 1031.3 | +6 | NE | 2 | bc | 39 | 85 | 8 | 5 | 5 | - | 2.3 | 4.6 | 2500 | 0 | 2 | 45 | 37 | 32 | - | - | 1.9 |
| Leuchars | 1031.6 | +8 | N | 1 | bc | 30 | 85 | 7 | . | 3 | 6 | 0 | 4.6 | ~~7200~~ | 4 | * | 43 | 30 | 20 | - | - | 5.2 |
| Renfrew | 1031.5 | +8 | E | 2 | c | 38 | 75 | 6 | 5 | - | - | 9+ | 9+ | 4000 | 1 | * | 46 | 36 | 33 | - | - | 0.0 |
| Eskdalemuir | 1032.1 | +14 | N | 1 | c | 31 | 85 | 8 | - | 2 | - | 0 | 10 | - | 4 | * | 41 | 27 | 23 | Tr. | - | 0.0 |
| Tiree | 1028.7 | +10 | SEE | 4 | c | 44 | 85 | 6 | 5 | 2 | - | 7-8 | 10 | 2500 | 0 | 3 | 47 | 44 | 41 | - | - | 0.1 |
| Stornoway | 1029.0 | +2 | SE | 2 | r | 43 | 85 | 7 | 5 | 2 | - | 9 | 10 | 2500 | 1 | 1 | 50 | 38 | * | 0.4 | 0.1 | 0.3 |
| Dalwhinnie | 1032.1 | +6 | SSW | 3 | b | 34 | 65 | 8 | 4 | - | - | 2.3 | 2.3 | 2500 | 0 | * | 38 | 30 | 28 | 0.2 | - | 2.0 |
| Aberdeen | 1031.6 | +4 | NNW | 2 | c | 37 | 75 | 7 | 5 | - | - | 10 | 9+ | 4000 | 1 | 1 | 42 | 37 | 34 | 0.1 | - | 2.1 |
| Wick | 1031.0 | +4 | W | 2 | c | 36 | 75 | 8 | 5 | 1 | - | 7-8 | 9 | 2500 | 1 | 2 | 42 | 35 | * | - | - | * |
| Lerwick | 1031.1 | +12 | NNW | 2 | c | 36 | 65 | 7 | 5 | 2 | - | 4.6 | 9 | 1500 | 0 | * | 39 | 36 | * | Tr. | - | 0.0 |
| Blacksod Point | 1026.8 | +6 | S | 1 | c | 48 | 85 | 7 | 5 | - | - | 10 | 10 | <150 | 0 | 3 | 51 | 47 | * | Tr. | Tr | * |
| Malin Head | 1028.0 | +8 | S | 1 | c | 46 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | 1 | 50 | 45 | * | 1 | 1 | 0.0 |
| Aldergrove | 1029.2 | +10 | E'N | 1 | dd | 45 | 95 | 5 | 6 | - | - | 10 | 10 | 450 | 1 | * | 50 | 44 | 43 | Tr. | 0.4 | 0.0 |
| Donaghadee | 1029.2 | +8 | SSE | 3 | id. | 46 | 95 | 7 | 6 | - | - | 9 | 9 | 800 | 1 | 2 | 51 | 44 | * | 0.1 | 1 | * |
| Birr Castle | 1028.0 | +4 | S | 1 | c | 44 | 95 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * | 50 | 44 | 41 | Tr. | - | 0.4 |
| Valentia Obsy.† | 1025.8 | +6 | SE | 3 | c | 49 | 75 | 8 | 5 | - | - | 10 | 10 | 4000 | 1 | * | 51 | 49 | 46 | - | - | 0.0 |
| Roches Point | 1027.1 | +6 | SE | 3 | c | 49 | 95 | 8 | 5 | - | - | 9 | 9 | 2500 | 0 | 2 | 50 | 47 | * | - | [illegible] | * |

## LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| Station | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon | Weather Night | Temp. Day Max. °F. | Temp. Night Min. °F. | Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset, hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. (To-day) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew | 18 | cz₀ | cd₀odf | fomcz₀ | 50 | 43 | 40 | 1 | 1 | 0.0 | * | * | 4 |
| Croydon | 217 | cmz₀ | omffdd | ofdmfm₀ | 48 | 41 | 39 | 0.4 | 1 | 0.0 | * | * | 4 |
| Greenwich (Royal Observatory) | 149 | onl | od.df | od₀imF | 49 | 42 | 38 | 1 | 1 | 0.0 | 97 | 69 | 4 |
| City (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Westminster (St. James' Park) | 27 | * | * | * | 50 | 43 | 40 | | 1 | 0.0 | 85 | 59 | * |
| Regents Pk. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Camden Square | 110 | oc | codor | * | 49 | 42 | 39 | 1 | 0.3 | * | * | 78 | * |
| Kensington | 80 | odr | co | * | 50 | 43 | 39 | 1 | 1 | 0.0 | At 18h. 100 | 78 | * |
| Hampstead Observatory | 450 | cod | or | o·d | 48 | 37 | 34 | 1 | 0.1 | 0.0 | * | 77 | * |

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 16th

| South Kensington Max. | Time. | Min. | Time. |
|---|---|---|---|
| 1.0 | 9/13h 15th | Nil | 1/6hr 16th |

| Kew Observatory Max. | Time. | Min. | Time. |
|---|---|---|---|
| 0.4 | 17hr 15th | <0.1 | 3hrs 16th |

## FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 15th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 16th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris | 1024.6 | WSW | 2 | m | 43 | 1027.7 | ENE | 3 | d₀d₀ | 43 | 45 | 39 | - | 0.2 |
| Brussels | | | | | | 1027.5 | N | 1 | o | 39 | | 37 | | - |
| Berlin | | | | | | 1016.4 | W | 4 | bc | 32 | | 30 | | - |
| Zurich | | | | | | | | | | | | | | |
| Rome | 1019.5 | ESE | 1 | b | 43 | 1017.5 | ENE | 1 | u | 39 | 55 | | - | - |

## EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13-18 | 9 | 47-54 |
| 1 | 1-3 | 5 | 19-24 | 10 | 55-63 |
| 2 | 4-7 | 6 | 25-31 | 11 | 64-75 |
| 3 | 8-12 | 7 | 32-38 | 12 | 75 |
| | | 8 | 39-46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**
Objects not visible at
0 Dense fog 55 yards.
1 Thick fog 220 "
2 Fog 550 "
3 Moderate fog 1,100 "
4 Mist or haze 1¼ miles.
5 Poor visibility 2½ "
6 Moderate " 6¼ "
7 Good " 12½ "
8 Very good " 31 "
9 Excellent " beyond 31m.

**COLUMN 30.—Code for State of Sea.**
0 Calm. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 17th December 1931.

No. 25592.

### OBSERVATIONS at 13h. G.M.T. 16th December

| District | Stations (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew)... | 1031·7 | -4 | NE | 3 | c | 44 | 55 | 5 | - | 3 | - | 0 | 9+ | - |
| | Croydon ... | 1031·3 | +2 | NE | 3 | c | 44 | 55 | 6 | 5 | - | - | 9+ | 9+ | 4000 |
| | S. Farnborough | 1031·6 | 0 | NE'N | 2 | c | 43 | 65 | 5 | 5 | - | - | 9+ | 9+ | 4000 |
| | Winchester ... | 1031·5 | -2 | E'N | 1 | c | 43 | 75 | 7 | 5 | - | - | 10 | 10 | 4000 |
| | Boscombe Down | 1031·2 | +2 | E'S | 3 | c | 43 | 75 | 6 | 5 | - | - | 10 | 10 | 2500 |
| | Calshot, S'thmtn | 1031·1 | 0 | E'N | 3 | c | 45 | 65 | 7 | 5 | - | - | 10 | 10 | 4000 |
| | Dungeness ... | * | * | N | 3 | c | * | * | 7 | 7 | 3 | * | 4-6 | 7-8 | 2500 |
| | Lympne ... | 1031·0 | -2 | NNE | 4 | c | 43 | 55 | 8 | 5 | - | - | 9 | 9 | 5700 |
| 2 | Shoeburyness | 1031·5 | +6 | NNE | 2 | c | 43 | 75 | 8 | 5 | 3 | - | 9 | 9+ | 4000 |
| | Felixstowe ... | 1031·3 | +2 | N'W | 2 | c | 43 | 75 | 6 | 5 | - | - | 10 | 10 | 4000 |
| | Gorleston ... | 1031·2 | 0 | N'W | 3 | c | 43 | 75 | 7 | 8 | - | - | 9+ | 9+ | 2500 |
| | Cranwell ... | 1032·4 | 0 | NW | 1 | c | 40 | 85 | 6 | 5 | - | - | 9 | 9 | 4000 |
| 3 | Birmingham ... | 1032·2 | +4 | ESE | 2 | c | 41 | 65 | 5 | 5 | - | - | 9 | 9 | 2500 |
| | Upper Heyford | 1032·1 | 0 | ENE | 2 | c | 42 | 65 | 7 | 5 | - | - | 9+ | 9+ | 4000 |
| | Leafield ... | 1031·8 | +4 | E | 2 | c | 41 | 75 | 8 | 5 | - | - | 9+ | 9+ | 4000 |
| 4 | Ross-on-Wye ... | 1031·2 | +4 | E'N | 2 | c | 43 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 |
| 5 | Portland Bill... | 1030·3 | +4 | E'N | 4 | c | 46 | 85 | 8 | 4 | - | - | 10 | 10 | 2500 |
| | Plymouth ... | 1029·8 | +6 | E'N | 2 | c/d | 48 | 95 | 6 | 5 | 2 | - | 9+ | 10 | 1500 |
| | Falmouth ... | 1029·0 | +2 | ENE | 4 | $r_or_o$ | 50 | 95 | 6 | 6 | 2 | - | 7-8 | 10 | 2500 |
| | Scilly (St. Mary's) | 1029·0 | +4 | E'S | 2 | c | 51 | 85 | 7 | 8 | - | - | 9+ | 9+ | 4000 |
| | Guernsey ... | 1028·7 | +6 | E | 3 | c/r | 48 | 95 | 7 | 8 | - | - | 10 | 10 | 1500 |
| 6 | Pembroke ... | 1029·8 | +2 | S | 2 | c | 47 | 95 | 7 | 5 | 6 | - | 7-8 | 10 | 4000 |
| 7 | Holyhead ... | 1030·3 | +2 | SW'W | 2 | c | 49 | 95 | 6 | 5 | - | - | 9+ | 9+ | 1500 |
| | Chester (Sealand) | 1032·4 | +2 | SE'E | 3 | c | 43 | 75 | 6 | 5 | 2 | - | 4-6 | 10 | 2500 |
| 8 | L'pool (Bidston) | 1031·8 | 0 | ESE | 3 | o | 43 | 75 | 5 | 5 | - | - | 10 | 10 | 1500 |
| 9 | Harrogate ... | 1032·4 | +6 | N | 1 | c | 40 | 75 | 6 | - | 3 | - | 0 | 9+ | - |
| 10 | Spurn Head ... | 1031·6 | +6 | NW'N | 2 | c/pr | 41 | 85 | 7 | 3 | 3 | - | 2-3 | 9+ | 4000 |
| | Catterick ... | 1032·8 | 0 | - | 0 | c | 40 | 85 | 6 | 5 | - | - | 9+ | 9+ | 4000 |
| | Tynemouth ... | 1031·7 | +6 | NNW | 2 | c | 41 | 75 | 6 | 6 | - | - | 7-8 | 7-8 | 1500 |
| 11 | Inchkeith ... | 1032·6 | +4 | NNE | 2 | c | 39 | 75 | 6 | 5 | - | - | 9+ | 9+ | 2500 |
| | Leuchars ... | 1033·1 | +2 | NW | 1 | c | 37 | 85 | 6 | - | 3 | - | 0 | 9+ | - |
| 12 | Renfrew ... | 1032·8 | +6 | ENE | 2 | o | 39 | 75 | 4 | 5 | - | - | 10 | 10 | 4000 |
| | Eskdalemuir ... | 1033·4 | +4 | N | 1 | c | 35 | 75 | 8 | - | 2 | - | 0 | 10 | - |
| 13A | Tiree ... | 1030·3 | +6 | SE'S | 4 | $id_o$ | 44 | 95 | 6 | 6 | 2 | - | 4-6 | 10 | 1500 |
| 13B | Stornoway ... | 1030·3 | +4 | SE | 3 | c | 45 | 85 | 8 | 5 | 2 | - | 9 | 10 | 2500 |
| 15 | Dalwhinnie ... | 1033·3 | +4 | S | 3 | c | 35 | 65 | 8 | - | 2 | - | 0 | 7-8 | 5700 |
| | Aberdeen ... | 1033·9 | +4 | WNW | 1 | c | 39 | 75 | 7 | 5 | - | - | 9+ | 9+ | 4000 |
| | Wick ... | 1032·3 | +6 | NW | 1 | c | 38 | 75 | 8 | 5 | - | - | 9+ | 9+ | 2500 |
| 16 | Lerwick ... | 1032·5 | +8 | N'W | 1 | c | 40 (38) | 75 | 8 | 5 | - | - | 7-8 | 7-8 | 1500 |
| 17 | Blacksod Point | 1027·8 | +4 | E | 3 | c | 49 | 75 | 8 | - | 4 | - | 0 | 10 | - |
| 18 | Malin Head ... | 1029·9 | +8 | SSE | 2 | c | 47 | 95 | 7 | 5 | 1 | - | 7-8 | 10 | 1500 |
| | Aldergrove ... | 1030·9 | +6 | SE'E | 3 | c | 46 | 85 | 5 | 6 | 2 | - | 7-8 | 10 | 1500 |
| | Donaghadee ... | 1030·9 | +6 | S'W | 1 | c | 46 | 95 | 7 | 8 | 2 | - | 4-6 | 9 | 2500 |
| 19 | Birr Castle ... | 1029·4 | +6 | S | 1 | c | 48 | 95 | 7 | 5 | - | - | 9+ | 9+ | 2500 |
| 20 | Valentia Obsy. | 1027·8 | +2 | SSE | 3 | c | 49 | 75 | 8 | 5 | - | - | 10 | 10 | 2500 |
| | Roches Point... | 1028·1 | +6 | S | 2 | c | 50 | 85 | 8 | 5 | - | - | 9 | 9 | 2500 |

### OBSERVATIONS at 18h. G.M.T. 16th December

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1033·3 | +14 | NE | 2 | c | 42 | 75 | 5 | 5 | 3 | - | 2-3 | 9 | 4000 | 1 | * |
| Croydon | 1032·7 | +10 | NE'E | 2 | c | 41 | 75 | 4 | 5 | 7 | - | 4-6 | 9 | 4000 | 1 | * |
| S. Farnborough | 1032·6 | +6 | NNE | 1 | c/f | 38 | 85 | 4 | 5 | - | - | 9+ | 9+ | 5700 | 1 | * |
| Winchester | 1033·0 | +8 | N'E | 1 | bc | 38 | 85 | 7 | - | 3 | - | 0 | 4-6 | - | 1 | * |
| Boscombe Down | 1032·9 | +12 | NE | 2 | c | 40 | 75 | 6 | 5 | - | - | 9+ | 9+ | 4000 | 1 | * |
| Calshot, S'thmtn | 1032·4 | +10 | NNE | 2 | c | 42 | 75 | 6 | 5 | 3 | - | 4-6 | 7-8 | 4000 | 0 | 1 |
| Dungeness | * | * | NE | 3 | c | * | * | 7 | 5 | 1 | * | 4-6 | 7-8 | 2500 | * | 1 |
| Lympne | 1032·4 | +12 | N'W | 3 | c | 37 | 75 | 7 | 5 | - | - | 7-8 | 7-8 | 5700 | 1 | * |
| Shoeburyness | 1032·8 | +10 | N'E | 1 | c | 40 | 95 | 8 | 5 | 3 | - | 9 | 9+ | 4000 | 0 | * |
| Felixstowe | 1032·5 | +10 | N'W | 2 | c | 40 | 85 | 7 | 5 | - | - | 10 | 10 | 4000 | 0 | 1 |
| Gorleston | 1032·1 | +4 | NNW | 1 | c | 40 | 85 | 7 | 3 | 8 | - | 4-6 | 7-8 | 2500 | 0 | 2 |
| Cranwell | 1033·6 | +10 | — | 0 | c | 38 | 85 | 6 | 5 | - | - | 9+ | 9+ | 4000 | 1 | * |
| Birmingham | 1033·0 | +8 | ESE | 1 | c | 40 | 75 | 5 | 5 | - | - | 7-8 | 7-8 | 4000 | 1 | * |
| Upper Heyford | 1033·7 | +12 | NE'E | 1 | c | 39 | 75 | 6 | 5 | - | - | 9 | 9 | 2600 | 0 | * |
| Leafield | 1033·4 | +12 | - | 0 | c | 37 | 75 | 7 | 5 | - | - | 7-8 | 7-8 | 5700 | 1 | * |
| Ross-on-Wye | 1032·4 | +10 | E | 2 | c | 42 | 75 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| Portland Bill | 1031·3 | +10 | E'N | 3 | c | 46 | 65 | 7 | 4 | 2 | - | 10 | 10 | 2500 | 1 | 3 |
| Plymouth | 1031·1 | +10 | ESE | 3 | o | 47 | 95 | 7 | 5 | - | - | 10 | 10 | 800 | 1 | 1 |
| Falmouth | 1030·0 | +6 | E'N | 4 | c | 48 (50) | 95 | 7 | 5 | 2 | - | 4-6 | 10 | 4000 | 1 | 2 |
| Scilly (St. Mary's) | 1029·7 | +8 | ESE | 3 | c | 50 | 95 | 8 | 8 | - | - | 9+ | 9+ | 4000 | 0 | 1 |
| Guernsey | 1030·7 | +14 | SE | 4 | o | 47 | 75 | 8 | 5 | - | - | 10 | 10 | 2500 | 0 | 2 |
| Pembroke | 1030·6 | +12 | NE | 3 | c | 47 | 95 | 5 | 5 | 6 | - | 7-8 | 10 | 4000 | 0 | 1 |
| Holyhead | 1031·5 | +10 | SW | 1 | c | 47 | 95 | 5 | 5 | 3 | - | 4-6 | 9+ | 2500 | 1 | 0 |
| Chester (Sealand) | 1033·1 | +6 | SE'E | 2 | c | 42 | 75 | 5 | 5 | - | - | 9+ | 9+ | 2500 | | * |
| L'pool (Bidston) | 1032·8 | +4 | SE'E | 3 | c | 42 | 65 | 5 | 5 | - | - | 9 | 9 | 1600 | 0 | * |
| Harrogate | 1033·6 | +6 | - | 0 | o | 36 | 85 | 5 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| Spurn Head | 1032·4 | +2 | NNW | 3 | c | 41 | 85 | 7 | 3 | 3 | - | 2-3 | 9+ | 4000 | 0 | 3 |
| Catterick | 1034·3 | +10 | NNW | 2 | c | 36 | 85 | 4 | 5 | - | - | 9+ | 9+ | 4000 | 0 | * |
| Tynemouth | 1034·2 | +8 | NW | 2 | o | 39 | 85 | 6 | 6 | - | - | 10 | 10 | 1600 | 0 | 2 |
| Inchkeith | 1033·4 | +2 | SE | 1 | c | 39 | 75 | 6 | 5 | 8 | - | 4-6 | 9 | 4000 | 0 | 2 |
| Leuchars | 1033·9 | +10 | - | 0 | c | 34 | 95 | 4 | - | 3 | - | 0 | 9+ | - | 1 | * |
| Renfrew | 1033·3 | +4 | ENE | 2 | o | 38 | 85 | 4 | 5 | - | - | 10 | 10 | 2600 | 1 | * |
| Eskdalemuir | 1033·8 | +4 | NNE | 1 | $is_o$ | 35 | 75 | 8 | - | 2 | - | 0 | 10 | - | 1 | * |
| Tiree | 1030·8 | +8 | SE'S | 4 | $id_o$ | 44 | 95 | 6 | 5 | 2 | - | 4-6 | 10 | 1500 | 1 | 3 |
| Stornoway | 1030·7 | +4 | SE | 2 | c | 44 | 95 | 8 | 5 | 7 | - | 4-6 | 7-8 | 4000 | 1 | 1 |
| Dalwhinnie | 1033·9 | +4 | SSE | 2 | bc | 34 | 75 | 8 | - | 2 | - | 0 | 4-6 | - | 0 | * |
| Aberdeen | 1034·1 | +10 | NW | 2 | bc | 35 | 85 | 8 | - | 3 | - | 0 | 4-6 | - | 1 | 1 |
| Wick | 1032·9 | +4 | SW | 3 | c | 41 | 65 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 0 | 2 |
| Lerwick | 1033·6 | +6 | NW | 1 | c | 37 | 65 | 7 | 5 | 6 | - | 4-6 | 7-8 | 1500 | 0 | * |
| Blacksod Point | 1029·2 | +10 | S | 4 | c | 48 | 85 | 7 | - | 3 | - | 0 | 10 | - | 0 | 3 |
| Malin Head | 1030·8 | +6 | S | 2 | c | 46 | 95 | 7 | 5 | - | - | 9+ | 9+ | 800 | 1 | 1 |
| Aldergrove | 1032·0 | +6 | SE'E | 3 | $id_o$ | 45 | 95 | 5 | 5 | 2 | - | 9 | 10 | 1500 | 1 | * |
| Donaghadee | 1031·6 | +6 | SSW | 1 | c | 47 | 85 | 7 | 6 | - | - | 9 | 9 | 1500 | 1 | 0 |
| Birr Castle | 1030·2 | +6 | SSE | 1 | c | 48 | 85 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| Valentia Obsy. | 1029·1 | +10 | SE | 3 | c | 49 | 75 | 8 | 5 | - | - | 10 | 10 | 2500 | 1 | 3 |
| Roches Point | 1029·7 | +12 | S | 2 | c | 48 | 95 | 8 | 5 | - | - | 9 | 9 | 2500 | 0 | 2 |

### PAST 24 HOURS. WEATHER.

| Stations | 7h.—13h. 16th (37) | 13h.—18h. 16th (38) | 18h. 16th—1h. 17th (39) | 1h.—7h. 17th (40) |
|---|---|---|---|---|
| London (Kew) | $czcz_oy$ | $cz_o$ | $cm_o$ | $bm_ox$ |
| Croydon | $cmz_o$ | cbccm | cm | cbmx |
| S. Farnborough | $ocmm_o$ | cbcfcm | cmbcc | cbf |
| Winchester | oc | $cm_oc$ | $bccm_ox$ | $cbm_ox$ |
| Boscombe Down | o | $cm_o$ | $cm_o$ | $cm_obm_o$ |
| Calshot, S'thmtn | $ccm_oc$ | $cm_o$ | $bm_ow$ | $bwm_o$ |
| Dungeness | bc | bc | * | b |
| Lympne | bcc | cbc | bcb | bbcx |
| Shoeburyness | bc | c | c | $bcbm_o$ |
| Felixstowe | $cz_o$ | c | cbc | c |
| Gorleston | $cpr_o$ | $cpr_o$ | $cpr_obc$ | cpr |
| Cranwell | $cm_o$ | $bccm_o$ | $cm_o$ | $cm_of$ |
| Birmingham | oc | c | cbc | bcbxm |
| Upper Heyford | $ocm_o$ | $cm_o$ | $cm_o$ | cbcx |
| Leafield | c | o | c | cbc |
| Ross-on-Wye | $d_ooc$ | c | $ccm_o$ | cmbm |
| Portland Bill | $cir_oc$ | c | $cz_o$ | $cbcz_o$ |
| Plymouth | $cmid_om_o$ | $m_oc$ | c | $cd_obcm_o$ |
| Falmouth | $cm_or_o$ | $cr_om_o$ | c | $cr_o$ |
| Scilly (St. Mary's) | c | c | c | $cp_oc$ |
| Guernsey | oroir | ~~R~~ o | o | ocbc |
| Pembroke | c | $cm_o$ | c | $cr_om_o$ |
| Holyhead | $bccm_o$ | $cm_o$ | c,idm | $d_oom_o$ |
| Chester (Sealand) | $om_o$ | $ocm_o$ | $cz_obc$ | $bxm_o$ |
| L'pool (Bidston) | $fom_o$ | $om_oc$ | $ccm_oo$ | $occm_o$ |
| Harrogate | bbcc | c | c | cbx |
| Spurn Head | cpr | $cpr_oc$ | $cpr_o$ | cprc |
| Catterick | $cm_o$ | $cm_om$ | bcmx | bmx |
| Tynemouth | ocm | co | obc | bc |
| Inchkeith | bcc | $cm_o$ | omff | $om_om_o$ |
| Leuchars | $bcxcm_o$ | $cm_ocm$ | cbcm | $cmcom_o$ |
| Renfrew | $cm_oom$ | omff | $omcm_o$ | $cm_o$ |
| Eskdalemuir | cxc | $cis_o$ | $cis_o$ | cbc |
| Tiree | $cid_om_om_o$ | $cidm_o$ | c | $id_oo$ |
| Stornoway | $cr_or$ | c | cpr | c |
| Dalwhinnie | c | c | * | bc |
| Aberdeen | $cz_oc$ | cbc | bcb | bbccx |
| Wick | c | c | cbc | bcc |
| Lerwick | c | c | c | c |
| Blacksod Point | c | c | c | c |
| Malin Head | cc | cihdc | ge | $cbcm_o$ |
| Aldergrove | odd | $cr_od_o$ | $cd_or$ | $uid_o$ |
| Donaghadee | $oid_oc$ | $cid_oc$ | c | $cid_o$ |
| Birr Castle | c | c | c | $cr_o$ |
| Valentia Obsy. | c | c | c | c |
| Roches Point | c | c | $cp_oc$ | c |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220-1100 yds.
F, thick fog, „ less than 220 yds.
fe, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
$k/s_o$, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
$s_o/k$, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus.
R, heavy rain. $r_o$, slight rain.
rr, continuous rain.

<, less than (for cloud height).

⊕, Solar halo. ⦶ lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

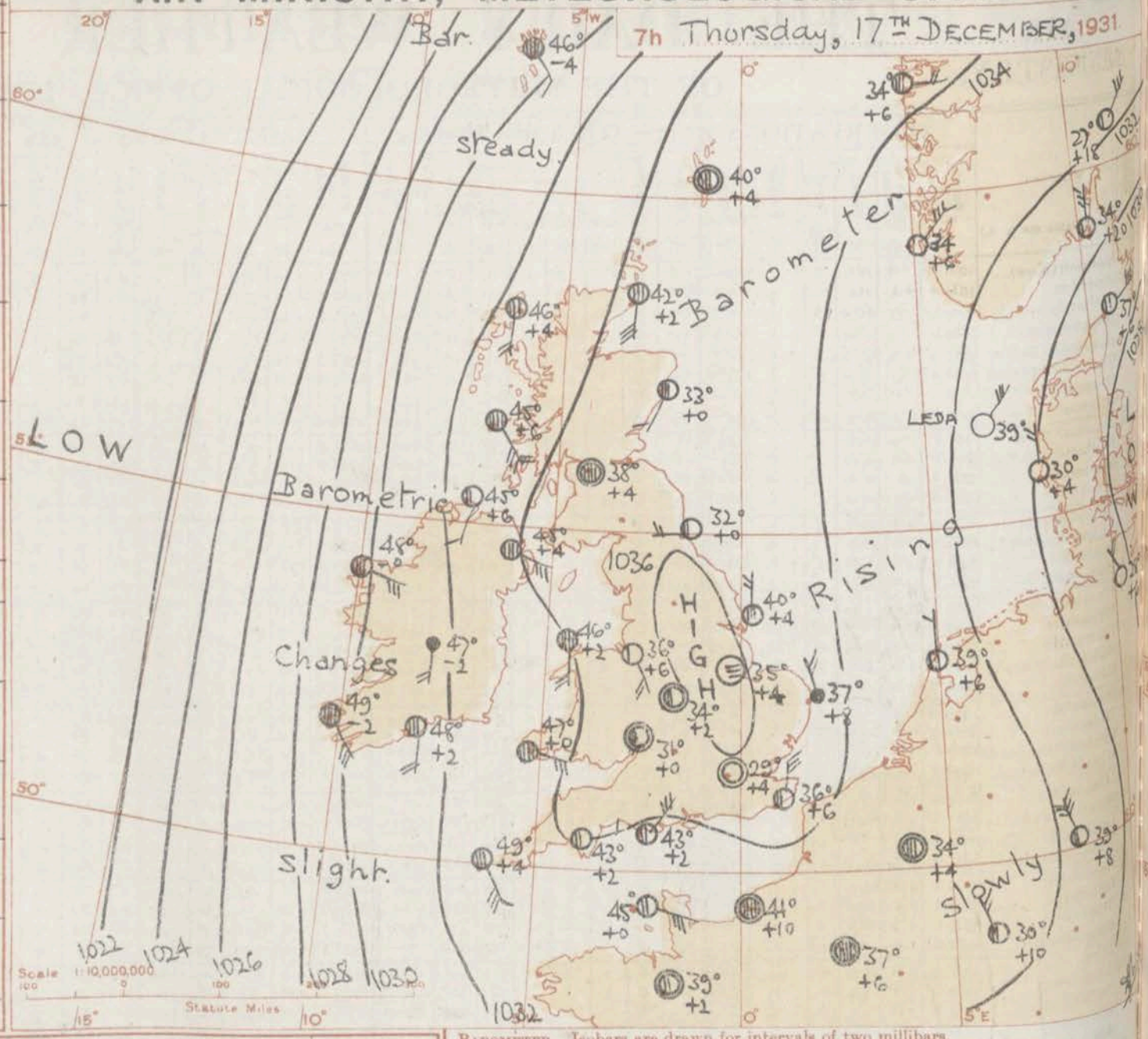
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

# AIR MINISTRY, METEOROLOGICAL OFFICE.

## REPORTS from HEALTH RESORTS for 16th December 1931.

| District No. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 15th to 9h. 16th | Temperature. Max. 9h.—17h. 16th | Rainfall. Night. 17h. 15th to 9h. 16th | Rainfall. Day. 9h.—17h. 16th | Sunshine. Sunrise to Sunset 16th |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | bc | bcc | 40 | 45 | 1 | - | 2.9 |
| | Bournemouth | o | o | 41 | 44 | 1 | - | 0.0 |
| | Ventnor ... | odo | o | 42 | 44 | 0.5 | - | 0.0 |
| | Southsea ... | om | cm | 43 | 45 | - | - | 0.0 |
| | Bognor Regis | c | cbcc | 41 | 45 | 1 | - | 0.1 |
| | Littlehampton | c | cbc | 42 | 45 | 0.4 | - | 0.1 |
| | Worthing ... | oc | c | 42 | 45 | 0.5 | .. | 0.6 |
| | Brighton ... | cbc | bbc | 42 | 45 | 0.3 | - | 3.0 |
| | Eastbourne† | cbc | bcbbcc | 39 | 48 | 1 | - | 3.6 |
| | Hastings† ... | cbcb | bbcc | 41 | 47 | 1 | - | 2.4 |
| | Folkestone ... | cbcc | cbc | 37 | 45 | Trace | - | 0.4 |
| | Dover... ... | c | cbc | 39 | 45 | 0.3 | - | 0.0 |
| | Deal ... ... | c | cbcc | 43 | 45 | 0.5 | - | 0.3 |
| | Ramsgate ... | c | c | 42 | 46 | 0.1 | - | 0.0 |
| | Margate ... | c | c | 43 | 45 | 0.2 | - | 0.0 |
| 2 | Southend ... | cfo | om | 38 | 43 | 0.3 | - | 0.0 |
| | Maldon ... | c | co | 39 | 44 | Trace | - | 0.0 |
| | Clacton-on-Sea | c | c | 40 | 43 | - | - | 0.0 |
| | Dovercourt ... | oc | oc | 40 | 43 | - | - | 0.0 |
| | Lowestoft ... | c | bcc | 40 | 41 | 0.1 | - | 0.0 |
| | Skegness ... | om | om | 39 | 42 | 0.4 | - | 0.0 |
| | Mablethorpe | o | om | 40 | 43 | Trace | Trace | 0.0 |
| | Cleethorpes ... | ov | ov | 40 | 42 | - | - | 0.0 |
| 3 | Leamington S. | c | co | 40 | 43 | 0.4 | - | 0.0 |
| 4 | Cheltenham† | o | o | 40 | 43 | 0.5 | - | 0.0 |
| 5 | Bath ... ... | c | c | 43 | 45 | 1 | - | 0.0 |
| | Weymouth ... | c | c | 43 | 45 | 1 | - | 0.0 |
| | Jersey ... | czc | dc | 47 | 50 | - | Trace | 0.0 |
| | Torquay ... | fdo | odpo | 46 | 50 | 1 | 0.5 | 0.0 |
| | Penzance ... | c | cor | 46 | 51 | - | 0.2 | 0.0 |
| | St. Ives ... | o | d | 47 | 51 | - | ~~Trace~~ | 0.0 |
| | Bude ... ... | o | o | 44 | 51 | - | - | 0.0 |
| | Ilfracombe ... | o | o | 47 | 49 | - | - | 0.0 |
| 6 | Aberystwyth | cidc | c | 45 | 47 | 0.5 | (Trace) | 0.0 |
| 7 | Llandudno ... | co | oc | 43 | 47 | 1 | - | 0.0 |
| | Colwyn Bay... | oc | c | 42 | 46 | 1 | - | 0.0 |
| | Rhyl ... ... | c | c | 41 | 50 | 1 | - | 0.0 |
| 8 | Wallasey ... | fcbc | bcc | 42 | 44 | 0.5 | - | 0.0 |
| | Southport‖ ... | c | c | 40 | 42 | 0.1 | - | 0.0 |
| | Blackpool ... | c | c | 39 | 42 | - | - | 0.0 |
| | Morecambe ... | mmc | c | 39 | 44 | - | - | 0.0 |
| 9 | Ilkley... ... | c | c | 35 | 45 | Trace | - | 0.0 |
| 10 | Berwick-on-T. | c | c | 33 | 36 | - | - | 0.0 |
| 11 | Dunbar ... | bc | bcx | 33 | 39 | - | - | 0.0 |
| 12 | Douglas ... | oc | oc | 42 | 44 | z | - | 0.0 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
Clear sky. Sky less than 1/10 clouded. Sky 1/10 to 5/10 clouded. Sky 6/10 to 9/10 clouded. Overcast sky.
Rain falling. Snow. Hail. Fog. Mist. Thunder. Thunderstorm.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 17th Dec. 1931. |
|---|---|
| 1. S.E. England<br>2. E. England<br>3. E. Midlands<br>4. W. Midlands | Light variable breeze; fair; local fog, becoming more widespread and dense; rather cold, frost night and morning. |
| 5. S.W. England<br>6. South Wales | Moderate southeast wind, fresh locally; fair; perhaps local fog later; moderate day temperature; frost locally at night. |
| 7. North Wales | Light or moderate south or southeast wind; fair; local fog; moderate day temperature, frost locally at night. |
| 8. N.W. England<br>9. N. Midlands<br>10. N.E. England<br>11. S.E. Scotland | As 1 - 4. |
| 12. S.W. Scotland & Isle of Man | As 6 - 7. |
| 13. A. W. Scotld. B. N.W. Scotland | Moderate to fresh or strong southerly wind; cloudy; local drizzle; rather mild. |
| 14. Mid-Scotland<br>15. N.E. Scotland<br>16. Orkneys and Shetlands. | Light or moderate southerly wind; fair; local fog; rather cold, frost locally. |
| 17. N.W. Ireland<br>18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland | As 13. |

### GENERAL INFERENCE.

An elongated anticyclone covering Great Britain and South Norway is moving very slowly eastward while a depression off South Greenland is moving northeast. Weather will be mainly quiet and fair with increasing fog and night frost, but in Ireland and the extreme west of Scotland weather will be mild and cloudy with local drizzle.

### FURTHER OUTLOOK.

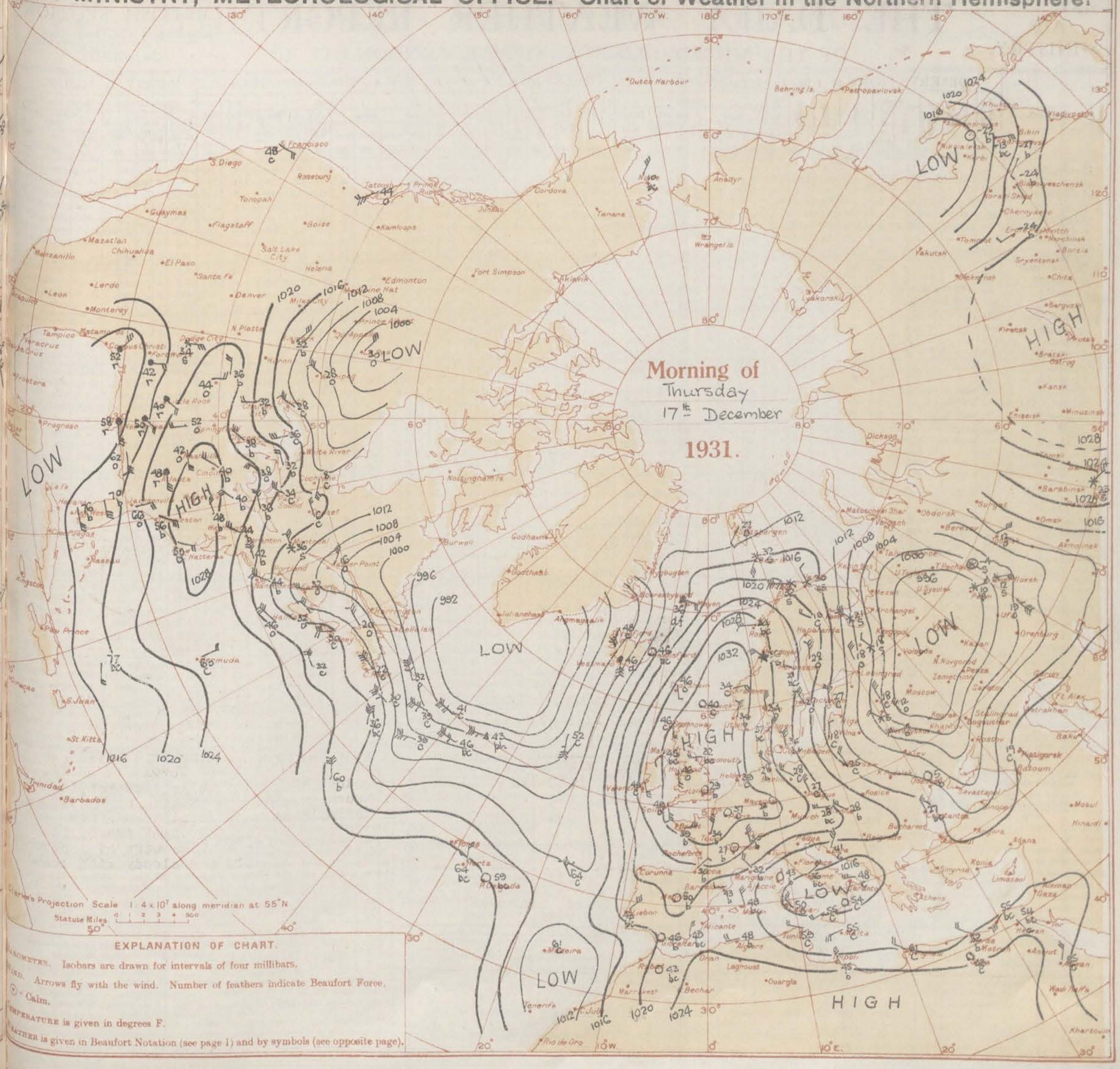
No important change.

Forecasts issued at 0945 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.




**EXPLANATION OF CHART.**

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 17th December 1931.

No. 25592.

### OBSERVATIONS at 1 hr. G.M.T. 17th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1034.7 | +6 | - | 0 | c | 36 | 95 | 4 | 5 | - | - | 9 | 9 | 4000 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot, (S'thmtn) | 8 | 1034.0 | +4 | NNW | 2 | bc | 37 | 95 | 6 | 5 | - | - | 2-3 | 2-3 | 4000 |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1034.0 | +10 | N | 3 | b | 37 | 85 | 7 | - | - | - | 0 | 0 | - |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1033.9 | +10 | N'E | 1 | bc | 47 | 85 | 7 | 4 | - | - | 4-6 | 4-6 | 2500 |
| | Cranwell | 240 | 1035.7 | +12 | NW'W | 1 | c | 36 | 95 | 5 | 5 | - | - | 7-8 | 7-8 | 4000 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1033.7 | +12 | ENE | 3 | c | 45 | 65 | 6 | 4 | - | - | 10 | 10 | 2500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1032.5 | +2 | SE | 3 | c | 49 | 85 | 7 | 5 | - | - | 10 | 10 | 4000 |
| | Scilly (St. Mary's) | 163 | 1031.6 | +6 | SE'S | 3 | c | 50 | 95 | 6 | 8 | - | - | 10 | 10 | 4000 |
| | Guernsey | 175 | 1032.8 | +6 | E | 3 | o | 46 | 75 | 8 | 5 | - | - | 10 | 10 | 2500 |
| 6 | Pembroke | 142 | 1033.4 | +12 | ESE | 4 | c | 46 | 95 | 6 | 5 | 6 | - | 7-8 | 10 | 4000 |
| 7 | Holyhead | 26 | 1033.3 | +4 | S'W | 1 | id. | 46 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1034.3 | +2 | N'W | 3 | c | 42 | 85 | 7 | 3 | 2 | - | 4-6 | 7-8 | 4000 |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1034.8 | +4 | NW | 2 | bc | 36 | 75 | 7 | 5 | - | - | 2-3 | 2-3 | 1500 |
| 11 | Inchkeith | 190 | 1035.5 | +8 | NW | 1 | o | 39 | 85 | 6 | 5 | - | - | 10 | 10 | 800 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1031.9 | +4 | SSW | 2 | c | 45 | 95 | 7 | 4 | - | - | 7-8 | 7-8 | 2500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1033.7 | +4 | S | 3 | bc | 42 | 65 | 8 | 5 | 7 | - | 2-3 | 4-6 | 4000 |
| 16 | Lerwick | 54 | 1035.1 | +4 | - | 0 | c | 38 | 75 | 7 | 5 | 2 | - | 4-6 | 9 | 1600 |
| 17 | Blacksod Point | 18 | 1029.9 | +6 | E | 3 | c | 48 | 85 | 6 | - | 2 | - | 0 | 10 | - |
| 18 | Malin Head | 52 | 1032.0 | +4 | SSE | 3 | c | 46 | 95 | 7 | 5 | - | - | 9 | 9 | 2500 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1029.7 | +6 | SE | 3 | o | 49 | 75 | 8 | 5 | - | - | 10 | 10 | 1500 |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 17th December

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1035.5 | 0 | - | 0 | b | 34 | 95 | 5 | 5 | - | - | 1 | 1 | 4000 | 1 | * |
| | Croydon | 1035.3 | +4 | - | 0 | b | 29 | 95 | 4 | - | - | - | 0 | 0 | - | 1 | * |
| | S. Farnborough | 1035.3 | +4 | NNW | 1 | f | 29 | 95 | 2 | - | - | - | 0 | 0 | - | 1 | * |
| | Winchester | 1035.3 | 0 | - | 0 | b | 31 | 95 | 5 | 4 | - | - | Tr. | Tr. | 4000 | 1 | * |
| | Boscombe Down | 1035.8 | +4 | NNE | 1 | b | 31 | 85 | 6 | - | 4 | - | 0 | 1 | - | 1 | * |
| | Calshot, (S'thmtn) | 1034.6 | 0 | N'W | 1 | b | 37 | 85 | 7 | 5 | - | - | 1 | 1 | 4000 | 0 | 1 |
| | Dungeness | * | * | NW | 2 | bc | * | * | 7 | 5 | 4 | * | 2-3 | 4-6 | 2500 | * | 0 |
| | Lympne | 1034.6 | +6 | N | 3 | bc | 36 | 95 | 7 | - | - | 8 | 0 | 2-3 | - | 1 | * |
| 2 | Shoeburyness | 1035.0 | 0 | NW'N | 1 | b | 32 | 95 | 6 | - | 4 | - | 0 | Tr. | - | 0 | * |
| | Felixstowe | 1034.9 | +2 | NNW | 2 | c | 38 | 85 | 7 | 5 | - | - | 7-8 | 7-8 | 4000 | 0 | 1 |
| | Gorleston | 1034.8 | +8 | N'W | 2 | ir. | 37 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | 3 |
| | Cranwell | 1036.0 | +4 | - | 0 | f | 35 | 95 | 3 | 5 | - | - | 10 | 10 | 4000 | 1 | * |
| 3 | Birmingham | 1035.9 | +2 | - | 0 | bc | 34 | 95 | 4 | - | - | 9 | 0 | 2-3 | - | 1 | * |
| | Upper Heyford | 1036.0 | +2 | NE | 2 | bc | 33 | 95 | 5 | - | 4 | - | 0 | 2-3 | - | 0 | * |
| | Leafield | 1035.7 | 0 | - | 0 | bc | 33 | 85 | 7 | - | 7 | 8 | 0 | 2-3 | - | 4 | * |
| 4 | Ross-on-Wye | 1035.2 | 0 | - | 0 | fg | 31 | 95 | 5 | - | - | 1 | 0 | 1 | - | 1 | * |
| 5 | Portland Bill | 1033.8 | +2 | NE | 3 | bc | 43 | 65 | 6 | 4 | - | - | 4-6 | 4-6 | 2500 | 0 | 3 |
| | Plymouth | 1034.0 | +2 | E | 1 | bc | 43 | 75 | 6 | 5 | - | - | 2-3 | 2-3 | 2500 | 1 | 0 |
| | Falmouth | 1033.3 | +4 | SE | 4 | c | 48 | 75 | 8 | 5 | - | - | 10 | 10 | 4000 | 0 | 2 |
| | Scilly (St. Mary's) | 1032.7 | +4 | S'E | 4 | c | 49 | 85 | 8 | 8 | - | - | 9+ | 9+ | 4000 | 1 | 2 |
| | Guernsey | 1033.1 | 0 | ESE | 3 | bc | 45 | 75 | 8 | 7 | - | - | 4-6 | 4-6 | 2500 | 0 | 2 |
| 6 | Pembroke | 1032.6 | 0 | ESE | 3 | c | 47 | 95 | 6 | 5 | - | - | 10 | 10 | 4000 | 1 | 2 |
| 7 | Holyhead | 1034.0 | +2 | S | 2 | o | 46 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | 0 |
| | Chester (Sealand) | 1035.6 | +6 | SE | 2 | b | 36 | 95 | 6 | 5 | - | - | Tr. | Tr. | 4000 | 1 | * |
| 8 | L'pool (Bidston) | 1035.3 | 0 | ESE | 3 | c | 39 | 75 | 5 | 5 | - | - | 9+ | 9+ | 800 | 0 | * |
| 9 | Harrogate | 1036.2 | 0 | N | 1 | b | 30 | 95 | 7 | 5 | - | - | Tr. | Tr. | ~~800~~ 4000 | 4 | * |
| 10 | Spurn Head | 1035.1 | +4 | N | 2 | c | 40 | 85 | 8 | 6 | 2 | - | 4-6 | 7-8 | 4000 | 1 | 1 |
| | Catterick | 1036.2 | 0 | NW | 1 | b | ~~34~~ 25 | 95 | 4 | - | - | - | 0 | 0 | - | 0 | * |
| | Tynemouth | 1035.7 | 0 | W | 2 | bc | 32 | 85 | 5 | 5 | - | - | 2-3 | 2-3 | 800 | 4 | 2 |
| 11 | Inchkeith | 1035.0 | 0 | W | 2 | c | 39 | 95 | 6 | 5 | 7 | - | 4-6 | 9 | 1500 | 0 | 1 |
| | Leuchars | 1034.1 | 0 | - | 0 | o | 35 | 95 | 5 | 5 | - | - | 10 | 10 | 2500 | 4 | * |
| 12 | Renfrew | 1035.7 | +4 | - | 0 | c | 38 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Eskdalemuir | 1035.7 | +2 | - | 0 | bc | 34 | 95 | 8 | - | 3 | - | 0 | 4-6 | - | 1 | * |
| 13A | Tiree | 1032.6 | +6 | SE | 5 | o | 45 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 |
| 13B | Stornoway | 1032.2 | +4 | S | 2 | c | 46 | 95 | 7 | 4 | 7 | - | 7-8 | 10 | 2500 | 1 | 1 |
| 15 | Dalwhinnie | 1035.9 | +6 | SE | 1 | bc | 34 | 85 | 8 | - | 2 | - | 0 | 2-3 | - | 0 | * |
| | Aberdeen | 1035.1 | 0 | SW | 1 | c | 33 | 85 | 6 | 5 | - | - | 7-8 | 7-8 | 4000 | 4 | 1 |
| | Wick | 1034.1 | +2 | S | 3 | c | 42 | 75 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 1 | 2 |
| 16 | Lerwick | 1035.3 | +4 | - | 0 | c | 40 | 75 | 7 | 5 | - | - | 7-8 | 7-8 | 1500 | 0 | * |
| 17 | Blacksod Point | 1029.6 | 0 | E | 3 | c | 48 | 85 | 7 | - | 4 | - | 0 | 9 | - | 0 | 3 |
| 18 | Malin Head | 1032.1 | +6 | SW | 1 | bc | 45 | 95 | 5 | 5 | - | - | 4-6 | 4-6 | 800 | 0 | 1 |
| | Aldergrove | 1034.0 | +4 | ESE | 3 | o | 45 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| | Donaghadee | 1033.7 | +4 | WSW | 2 | id. | 47 | 85 | 7 | 6 | - | - | 9 | 9 | 800 | 1 | 1 |
| 19 | Birr Castle | 1031.7 | -2 | S | 2 | r.c. | 47 | 95 | 7 | 6 | 2 | - | 9 | 10 | 1500 | 1 | * |
| 20 | Valentia Obsy.† | 1029.6 | -2 | SE'S | 3 | c | 49 | 75 | 8 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Roches Point | 1031.1 | +2 | S | 2 | c | 48 | 95 | 8 | 5 | - | - | 9 | 9 | 2500 | 0 | 2 |

### PAST 24 HOURS.

| District | Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F (32) | Temperature Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 16th Hrs. (36) |
|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 44 | 34 | 21 | - | - | 0.0 |
| | Croydon | 44 | 29 | 25 | - | - | 0.0 |
| | S. Farnborough | 43 | 28 | 18 | - | - | 0.0 |
| | Winchester | 43 | 30 | 24 | - | - | * |
| | Boscombe Down | 43 | 30 | 22 | - | - | 0.0 |
| | Calshot, (S'thmtn) | 45 | 36 | 29 | - | - | * |
| | Dungeness | 46 | 29 | * | - | - | 1.4 |
| | Lympne | 43 | 33 | 30 | - | - | 0.0 |
| 2 | Shoeburyness | 43 | 27 | 19 | - | - | 0.0 |
| | Felixstowe | 43 | 33 | 29 | - | - | 0.0 |
| | Gorleston | 44 | 36 | 34 | 0.1 | 0.6 | 0.5 |
| | Cranwell | 41 | 34 | 31 | - | - | 0.0 |
| 3 | Birmingham | 42 | 34 | 20 | - | - | * |
| | Upper Heyford | 42 | 33 | 27 | - | - | 0.0 |
| | Leafield | 41 | 32 | 22 | - | - | 0.0 |
| 4 | Ross-on-Wye | 43 | 31 | 23 | 0.1 | - | * |
| 5 | Portland Bill | 47 | 37 | * | 0.2 | - | 0.0 |
| | Plymouth | 48 | 43 | 38 | 0.3 | Tr. | 0.0 |
| | Falmouth | 50 | 48 | * | 1 | Tr. | 0.0 |
| | Scilly (St. Mary's) | 51 | 48 | * | - | 0.2 | 0.0 |
| | Guernsey | 51 | 45 | 36 | 1 | - | 0.0 |
| 6 | Pembroke | 48 | 46 | * | - | Tr. | 0.0 |
| 7 | Holyhead | 49 | 45 | 44 | - | Tr. | 0.0 |
| | Chester (Sealand) | 43 | 33 | 28 | - | - | 0.0 |
| 8 | L'pool (Bidston) | 43 | 38 | 35 | - | - | 0.1 |
| 9 | Harrogate | 40 | 30 | 23 | - | - | 0.0 |
| 10 | Spurn Head | 43 | 39 | * | Tr | 0.2 | * |
| | Catterick | 40 | 24 | 17 | - | - | * |
| | Tynemouth | 42 | 32 | 27 | - | - | 0.0 |
| 11 | Inchkeith | 42 | 38 | 33 | - | - | 0.1 |
| | Leuchars | 37 | 31 | 22 | Tr | - | 0.0 |
| 12 | Renfrew | 39 | 37 | 37 | - | - | * |
| | Eskdalemuir | 36 | 34 | 30 | Tr | Tr. | 0.0 |
| 13A | Tiree | 44 | 44 | 43 | 0.3 | 0.1 | 0.0 |
| 13B | Stornoway | 45 | 43 | * | 0.2 | 0.1 | 0.0 |
| 15 | Dalwhinnie | 35 | 32 | 32 | - | - | 0.0 |
| | Aberdeen | 39 | 25 | 20 | - | - | * |
| | Wick | 42 | 37 | * | - | - | * |
| 16 | Lerwick | ~~40~~ 39 | 37 | * | - | - | 0.0 |
| 17 | Blacksod Point | 50 | 47 | * | + | - | * |
| 18 | Malin Head | 47 | 44 | * | 0.2 | - | 0.0 |
| | Aldergrove | 46 | 44 | 42 | 2 | 0.4 | 0.0 |
| | Donaghadee | 47 | 45 | * | 0.2 | 0.2 | * |
| 19 | Birr Castle | 49 | 44 | 38 | - | Tr. | 0.0 |
| 20 | Valentia Obsy.† | 50 | 49 | 46 | - | - | 0.0 |
| | Roches Point | 51 | 47 | * | - | 0.1 | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon | Weather Night | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. (Yesterday.) | Humidity 15h. G.M.T. % (Yesterday.) | Humidity 9h. G.M.T. % (To-day.) | Visibility 9h. (To-day.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew | 18 | c3c3oy | c3o | cm.by | 44 | 34 | 21 | - | - | 0.0 | * | * | 3 |
| Croydon | 217 | cm3o | cbccm | cmcbmx | 44 | 29 | 25 | - | - | 0.0 | * | * | 3 |
| Greenwich (Royal Observatory) | 149 | c | cy | cxf | 44 | 33 | 25 | - | Tr. | 0.0 | 55 | 89 | 3 |
| City (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Westminster (St. James' Park) | 27 | * | * | * | ~~44~~ 45 | 37 | 31 | - | - | 0.0 | 49 | 82 | * |
| Regents Pk. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Camden Square | 110 | c | c | * | 43 | 35 | 28 | - | - | * | * | 91 | * |
| Kensington | 80 | cobc | co | * | 44 | 34 | 25 | - | - | 0.0 | At 18h. 72 | 89 | * |
| Hampstead Observatory | 450 | c | o | * | 42 | 31 | 25 | - | Tr. | 0.0 | * | 93 | * |

### Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 17th

| South Kensington Max. | Time. | Min. | Time. |
|---|---|---|---|
| 1.0 | 10h. 16th | 70.3 | 2-5 hrs. 17th |

| Kew Observatory Max. | Time. | Min. | Time. |
|---|---|---|---|
| 0.6 | 22h. 16th | 0.2 | 4h. 17th |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 16th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 17th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris | 1030.9 | NNE | 2 | o | 41 | 1033.4 | - | 0 | 0 | 37 | 46 | 37 | - | - |
| Brussels | 1030.4 | NW | 2 | c | 37 | | | | | | 43 | | 0.2 | |
| Berlin | | | | | | 1025.8 | NW | 3 | c | 28 | | 27 | | - |
| Zürich | 1028.4 | NE | 1 | c | 32 | 1031.2 | N | 1 | c/s | 28 | 34 | 27 | 0.2 | 0.3 |
| Rome | 1015.1 | NE | 1 | c | 48 | 1016.1 | ENE | 3 | bc | 34 | | | | |

## EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13-18 | 9 | 47-54 |
| 1 | 1-3 | 5 | 19-24 | 10 | 55-63 |
| 2 | 4-7 | 6 | 25-31 | 11 | 64-75 |
| 3 | 8-12 | 7 | 32-38 | 12 | 75 |
| | | 8 | 39-46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | | Objects not visible at |
|---|---|---|
| 0 | Dense fog | 55 yards. |
| 1 | Thick fog | 220 " |
| 2 | Fog | 550 " |
| 3 | Moderate fog | 1,100 " |
| 4 | Mist or haze | 1¼ miles. |
| 5 | Poor visibility | 2½ " |
| 6 | Moderate " | 6¼ " |
| 7 | Good " | 12½ " |
| 8 | Very good " | 31 " |
| 9 | Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | | | |
|---|---|---|---|
| 0 | Calm. | 5 | Very rough. |
| 1 | Smooth. | 6 | High. |
| 2 | Slight. | 7 | Very high. |
| 3 | Moderate. | 8 | Precipitous. |
| 4 | Rough. | 9 | Confused. |

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 18th December, 1931.

No. 25593

### OBSERVATIONS at 13h. G.M.T. 17th December.

| District | Stations. (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0-12 (4) | Weather. (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud. Form. Low. (9) | Form. Med. (10) | Form. High (11) | Amount. Low 0-10 (12) | Amount. Total 0-10 (13) | Height of Base. (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1035.9 | -6 | NNW | 2 | cf | 41 | 85 | 3 | 6 | - | - | 10 | 10 | 2500 |
| | Croydon | 1036.0 | -2 | - | 0 | cf | 37 | 95 | 2 | 5 | - | - | 9+ | 9+ | 2500 |
| | S. Farnborough | 1036.1 | -6 | NW | 1 | c | 38 | 95 | 4 | 6 | - | - | 9+ | 9+ | 4000 |
| | Winchester | 1036.0 | -6 | NNE | 2 | c | 42 | 75 | 6 | 5 | - | - | 9 | 9 | 4000 |
| | Boscombe Down | 1036.4 | -2 | ENE | 3 | b | 41 | 65 | 7 | 7 | - | - | 1 | 1 | 4000 |
| | Calshot, S'thmtn | 1035.7 | -6 | NEE | 3 | b | 45 | 65 | 7 | 1 | 3 | - | Tr. | 1 | 4000 |
| | Dungeness | * | * | N | 3 | bc | * | * | 7 | 2 | 6 | - | 2.3 | 2.3 | 2500 |
| | Lympne | 1034.7 | -6 | NE | 3 | bc | 43 | 75 | 8 | 7 | - | - | 4.6 | 4.6 | 4000 |
| 2 | Shoeburyness | 1036.6 | -4 | N | 3 | c | 42 | 85 | 7 | 5 | - | - | 7.8 | 7.8 | 4000 |
| | Felixstowe | 1035.7 | 0 | N | 2 | c | 43 | 75 | 7 | 7 | - | - | 7.8 | 7.8 | 4000 |
| | Gorleston | 1035.0 | 0 | NWN | 1 | bc | 42 | 95 | 6 | 3 | 7 | - | 4.6 | 4.6 | 2500 |
| | Cranwell | 1037.0 | -2 | NWN | 1 | cf | 37 | 95 | 3 | 5 | - | - | 10 | 10 | 4000 |
| 3 | Birmingham | 1036.6 | 0 | SSE | 1 | c | 41 | 65 | 5 | 1 | - | - | 7.8 | 7.8 | 2500 |
| | Upper Heyford | 1037.0 | -2 | NNE | 2 | c | 40 | 85 | 5 | 5 | - | - | 7.8 | 7.8 | 4000 |
| | Leafield | 1036.6 | +6 | NNW | 1 | bc | 37 | 85 | 7 | 5 | - | 6 | 1 | 2.3 | 4000 |
| 4 | Ross-on-Wye | 1035.8 | 0 | NE | 1 | b | 43 | 65 | 6 | - | - | 1 | 0 | Tr. | - |
| 5 | Portland Bill | 1034.9 | -4 | NEE | 3 | bc | 44 | 65 | 7 | 1 | - | - | 2.3 | 2.3 | 2500 |
| | Plymouth | 1035.3 | +4 | E | 1 | c | 45 | 65 | 7 | 1 | - | - | (7.8) | (7.8) | 2500 |
| | Falmouth | 1034.4 | +4 | E | 3 | c | 47 | 75 | 8 | 5 | - | - | 10 | 10 | 4000 |
| | Scilly (St. Mary's) | 1034.0 | +4 | SE | 3 | c | 49 | 75 | 7 | 8 | - | - | 10 | 10 | 4000 |
| | Guernsey | 1034.2 | +6 | ESE | 2 | c | 48 | 75 | 8 | 8 | - | - | 7.8 | 7.8 | 2500 |
| 6 | Pembroke | 1034.9 | +6 | ESE | 2 | cf | 47 | 95 | 5 | 5 | - | - | 10 | 10 | 4000 |
| 7 | Holyhead | 1035.2 | +2 | S | 2 | c | 46 | 95 | 6 | 5 | - | - | 10 | 10 | 4000 |
| | Chester (Sealand) | 1036.5 | -6 | ESE | 2 | bc | 43 | 75 | 4 | 5 | - | - | 4.6 | 4.6 | 4000 |
| 8 | L'pool (Bidston) | 1036.2 | +4 | SEE | 3 | c | 41 | 75 | 5 | 5 | - | - | 7.8 | 7.8 | 800 |
| 9 | Harrogate | 1036.6 | 0 | - | 0 | b | 39 | 75 | 5 | 5 | - | - | Tr. | Tr. | 2500 |
| 10 | Spurn Head | 1035.8 | +4 | NNW | 4 | c | 41 | 85 | 7 | 4 | 2 | - | 4.6 | 7.8 | 4000 |
| | Catterick | 1036.6 | -10 | - | 0 | b | 39 | 75 | 4 | - | - | - | 0 | 0 | - |
| | Tynemouth | 1036.5 | 0 | WSW | 1 | bcf | 39 | 75 | 2 | 5 | 6 | - | 4.6 | 4.6 | 1500 |
| 11 | Inchkeith | 1036.0 | +4 | W | 1 | 0 | 40 | 95 | 4 | 5 | - | - | 10 | 10 | 800 |
| | Leuchars | 1036.1 | -2 | - | 0 | c | 39 | 86 | 6 | 6 | - | - | 9+ | 9+ | 1500 |
| 12 | Renfrew | 1035.5 | -4 | NE | 1 | bcf | 39 | 95 | 3 | 5 | - | - | 4.6 | 4.6 | 4000 |
| | Eskdalemuir | 1036.5 | -2 | - | 0 | bc | 38 | 75 | 7 | - | 3 | - | 0 | 4.6 | - |
| 13A | Tiree | 1032.2 | -6 | SSE | 5 | c | 47 | 95 | 6 | 8 | 4 | - | 7.8 | 9+ | 800 |
| 13B | Stornoway | 1032.0 | -2 | S | 3 | c | 48 | 95 | 7 | 4 | 7 | - | 4.6 | 10 | 4000 |
| 15 | Dalwhinnie | 1035.8 | +4 | S | 2 | c | 40 | 85 | 7 | 5 | - | 2 | 2-3 7.8 | 7-8 7.8 | 800 |
| | Aberdeen | 1035.7 | 0 | SW | 1 | bc | 41 | 75 | 5 | 5 | - | 6 | Tr. | 4.6 | 4000 |
| | Wick | 1034.6 | 0 | SSE | 3 | c | 43 | 75 | 8 | 5 | 7 | 6 | 4.6 | 7.8 | 2500 |
| 16 | Lerwick | 1035.3 | 0 | S | 1 | c | 43 | 65 | 7 | 5 | - | - | 9 | 9 | 1500 |
| 17 | Blacksod Point | 1029.1 | -6 | ESE | 4 | bc | 50 | 75 | 8 | - | 6 | - | 0 | 4.6 | - |
| 18 | Malin Head | 1032.1 | -4 | SSE | 4 | c | 47 | 95 | 6 | 5 | - | - | 9 | 9 | 2500 |
| | Aldergrove | 1034.1 | +2 | ESE | 3 | c | 48 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 |
| | Donaghadee | 1034.6 | +2 | SE | 2 | c | 48 | 85 | 6 | 5 | - | - | 9+ | 9+ | 800 |
| 19 | Birr Castle | 1032.6 | +8 | S | 1 | c | 50 | 95 | 7 | 5 | - | - | 9+ | 9+ | 2500 |
| 20 | Valentia Obsy. | 1030.6 | 0 | SSE | 4 | id. | 50 | 85 | 8 | 5 | - | - | 9+ | 9+ | 1500 |
| | Roches Point | 1032.6 | +6 | S | 4 | c | 50 | 95 | 8 | 5 | - | - | 7.8 | 7.8 | 2500 |

### OBSERVATIONS at 18h. G.M.T. 17th December.

| District | Stations. | Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind. Direc. (17) | Wind. Force 0-12 (18) | Weather. (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud. Form. Low. (23) | Form. Med. (24) | Form. High. (25) | Amount. Low. 0-10 (26) | Amount. Total 0-10 (27) | Height of Base (feet) (28) | State of Ground. 0-9 (29) | Sea. 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1036.8 | +4 | NE | 2 | c | 41 | 85 | 4 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Croydon | 1036.2 | +2 | NE | 2 | cf | 39 | 85 | 4 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| | S. Farnborough | 1036.5 | +6 | N | 1 | c | 39 | 85 | 4 | 5 | - | - | 10 | 10 | 4000 | 1 | * |
| | Winchester | 1036.7 | +6 | NE | 2 | c | 39 | 75 | 7 | 5 | - | - | 10 | 10 | 4000 | 1 | * |
| | Boscombe Down | 1036.5 | +6 | ENE | 2 | c | 36 | 76 | 5 | 5 | - | - | 9+ | 9+ | 2500 | 0 | * |
| | Calshot, S'thmtn | 1036.1 | +2 | NNE | 3 | c | 41 | 65 | 8 | 5 | - | - | 10 | 10 | 4000 | 0 | 1 |
| | Dungeness | * | * | NNE | 2 | bc | * | * | 7 | 2 | 6 | * | 2.3 | 2.3 | 2500 | * | 1 |
| | Lympne | 1036.3 | +2 | NE | 3 | b | 37 | 85 | 6 | 5 | - | - | Tr. | Tr. | 4000 | 1 | * |
| 2 | Shoeburyness | 1036.9 | +2 | N | 1 | bc | 33 | 95 | 7 | - | 7 | - | 0 | 2.3 | - | 0 | * |
| | Felixstowe | 1036.2 | 0 | N | 2 | bc | 37 | 95 | 7 | 5 | - | - | 2.3 | 2.3 | 4000 | 0 | 1 |
| | Gorleston | 1036.3 | 0 | NNW | 2 | bc | 38 | 96 | 6 | 3 | - | - | 4.6 | 4.6 | 2500 | 1 | 2 |
| | Cranwell | 1037.8 | +10 | NWN | 1 | cf+ | 37 | 95 | 3 | 5 | - | - | 10 | 10 | 4000 | 1 | * |
| 3 | Birmingham | 1037.5 | +4 | E | 1 | bf+ | 38 | 75 | 2 | - | - | - | 0 | 0 | - | 1 | * |
| | Upper Heyford | 1037.1 | +2 | NEE | 2 | c | 38 | 75 | 6 | 5 | - | - | 9+ | 9+ | 4000 | 0 | * |
| | Leafield | 1037.4 | +6 | NEN | 1 | c | 35 | 85 | 7 | 5 | - | - | 9 | 9 | 4000 | 1 | * |
| 4 | Ross-on-Wye | 1037.0 | +6 | NNE | 1 | bf+ | 33 | 95 | 3 | - | - | - | 0 | 0 | - | 1 | * |
| 5 | Portland Bill | 1036.5 | +6 | NE | 3 | b | 41 | 75 | 7 | - | - | - | 0 | 0 | - | 0 | 3 |
| | Plymouth | 1036.4 | 0 | E | 3 | b | 39 | 85 | 7 | - | - | - | 0 | 0 | - | 1 | 0 |
| | Falmouth | 1034.4 | 0 | EN | 3 | bc | 45 | 75 | 8 | 5 | 3 | - | 2.3 | 4.6 | 4000 | 0 | 2 |
| | Scilly (St. Mary's) | 1033.7 | 0 | ES | 4 | c | 47 | 85 | 7 | 8 | - | - | 9+ | 9+ | 4000 | 1 | 2 |
| | Guernsey | 1034.2 | +2 | - | 0 | c | 46 | 75 | 8 | 8 | - | - | 10 | 10 | 2500 | 0 | 1 |
| 6 | Pembroke | 1034.8 | +2 | ES | 3 | c | 45 | 95 | 6 | 5 | 7 | - | 7.8 | 10 | 4000 | 0 | 2 |
| 7 | Holyhead | 1036.9 | +10 | SEE | 2 | c | 46 | 95 | 5 | 5 | - | - | 9+ | 9+ | 5700 | 1 | 1 |
| | Chester (Sealand) | 1037.6 | +10 | ESE | 1 | bf | 33 | 85 | 3 | - | - | - | 0 | 0 | - | 1 | * |
| 8 | L'pool (Bidston) | 1037.2 | +4 | SEE | 4 | bf | 38 | 75 | 3 | - | - | - | 0 | 0 | - | 0 | * |
| 9 | Harrogate | 1038.1 | +6 | - | 0 | b | 32 | 95 | 4 | - | - | 1 | 0 | 0 Tr. | - | 4 | * |
| 10 | Spurn Head | 1036.9 | +2 | N | 1 | c | 41 | 85 | 7 | 4 | 2 | - | 2.3 | 7.8 | 4000 | 0 | 1 |
| | Catterick | 1038.2 | +10 | NW | 1 | b | 26 | 95 | 4 | - | - | - | 0 | 0 | - | 4 | * |
| | Tynemouth | 1037.0 | +4 | - | 0 | bcf | 37 | 85 | 3 | 5 | - | - | 4.6 | 4.6 | 800 | 4 | 2 |
| 11 | Inchkeith | 1036.1 | +4 | SE | 2 | bc | 40 | 95 | 6 | 5 | - | - | 2.3 | 2.3 | 1500 | 0 | 1 |
| | Leuchars | 1036.3 | -2 | - | 0 | bc | 37 | 96 | 4 | 6 | 3 | - | 1 | 4.6 | 5700 | 1 | * |
| 12 | Renfrew | 1036.2 | +4 | NE | 2 | c | 38 | 95 | 5 | 5 | - | - | 10 | 10 | 4000 | 1 | * |
| | Eskdalemuir | 1037.2 | +6 | - | 0 | c | 34 | 85 | 7 | - | 3 | - | 0 | 9+ | - | 1 | * |
| 13A | Tiree | 1032.1 | +2 | SSE | 5 | c | 47 | 95 | 5 | 5 | 7 | - | 7.8 | 10 | 1500 | 0 | 3 |
| 13B | Stornoway | 1031.5 | 0 | SSW | 3 | c | 47 | 95 | 6 | 4 | 6 | - | 4.6 | 9+ | 4000 | 1 | 2 |
| 15 | Dalwhinnie | 1036.1 | +2 | S | 1 | bc | 35 | 85 | 8 | 4 | 1 | - | 1 | 2.3 | 2500 | 0 | * |
| | Aberdeen | 1036.0 | 0 | SSW | 3 | c | 40 | 75 | 6 | 5 | - | - | 9+ | 9+ | 4000 | 4 | 1 |
| | Wick | 1034.1 | -4 | SSE | 3 | c | 44 | 85 | 8 | 5 | 2 | - | 7.8 | 9 | 2500 | 0 | 3 |
| 16 | Lerwick | 1036.0 | -6 | S | 1 | c | 43 | 65 | 7 | 5 | - | - | 7.8 | 7.8 | 1500 | 0 | * |
| 17 | Blacksod Point | 1029.4 | +4 | SE | 5 | c | 50 | 85 | 6 | 8 | - | - | 7.8 | 7.8 | 220 | 0 | 4 |
| 18 | Malin Head | 1032.4 | +4 | SSE | 3 | c | 47 | 95 | 6 | 5 | 3 | - | 7.8 | 9+ | 1500 | 1 | 1 |
| | Aldergrove | 1034.4 | +2 | SSE | 3 | cr | 47 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Donaghadee | 1034.7 | +2 | SSW | 2 | c | 48 | 95 | 7 | 5 | - | - | 9 | 9 | 1500 | 0 | 1 |
| 19 | Birr Castle | 1032.8 | +6 | S | 1 | c | 48 | 95 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| 20 | Valentia Obsy. | 1030.7 | +2 | SSE | 4 | c | 50 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 |
| | Roches Point | 1033.0 | +6 | S | 4 | c | 49 | 95 | 8 | 3 | - | - | 9 | 9 | 2500 | 0 | 3 |

### PAST 24 HOURS.

| District | Stations. | Weather. 7h.–13h. 17th (37) | 13h.–18h. 17th (38) | 18h. 17th to 1h. 18th (39) | 1h.–7h. 18th (40) |
|---|---|---|---|---|---|
| 1 | London (Kew) | bxc3 | cm | bmx | oFx |
| | Croydon | bcfcff | cffm | cmbffx | offex |
| | S. Farnborough | bfcFm | cmmm.m | cmbFx | bFoFx |
| | Winchester | bbc.m. | cm. | cbx | bxm. |
| | Boscombe Down | bm.bmb | bcm.cm. | cm. | cm.bm. |
| | Calshot, S'thmtn | bmbm.b | bbcc | bwlm.x | bm.x |
| | Dungeness | bc | bc | * | p |
| | Lympne | bbc | bcb | bm. | cr.r.c |
| 2 | Shoeburyness | bm.bc | bc | bm.x | bxcm. |
| | Felixstowe | cbcq | bccprbc | c | bbcpr.c |
| | Gorleston | obc.ir. | bccpr. | bcprbc | bcc |
| | Cranwell | cf | cf | cf bm | bmcFx |
| 3 | Birmingham | fbc | bcbf | bFx | bFx |
| | Upper Heyford | cbcm. | cm. | cbcm. | bcbmx |
| | Leafield | bc | bcc | bcbx | bmx |
| 4 | Ross-on-Wye | bmbcb3. | b3.bm | bfxiF | FFx |
| 5 | Portland Bill | bc | bc | bc | c.bc3. |
| | Plymouth | cm.bc | bcb | b | bx |
| | Falmouth | c | cbc | bccq | cqbc |
| | Scilly (St. Mary's) | c | c | cbcc | cr. |
| | Guernsey | bcc | co | cbcc | c |
| 6 | Pembroke | cf | c | bc | b |
| 7 | Holyhead | ir.cm. | cm. | cbcm. | bm. |
| | Chester (Sealand) | bccfm | bcbm | bfmx | bmx |
| 8 | L'pool (Bidston) | m.cmc | bcmbmf | bfbxF | bFx |
| 9 | Harrogate | b | mb | b | bx |
| 10 | Spurn Head | bc | bc | cpr | cprbc |
| | Catterick | bmx | bm | bmx | bbcmx |
| | Tynemouth | bcff | bcff | bcffm | bcm |
| 11 | Inchkeith | om.mm | omm.bc | ommff | ffm.m.c |
| | Leuchars | oxcm. | cm.d.bcm | bcmfex | bcfex |
| 12 | Renfrew | cmff | bccfcm. | cm.m | cmm. |
| | Eskdalemuir | cbc | bcc | cbcx | bx |
| 13A | Tiree | ogm. | cm.g | cm. | c |
| 13B | Stornoway | c | c | cprq | cir |
| 15 | Dalwhinnie | bcc | bc | * | bc |
| | Aberdeen | cbfbc | bcc3. | bcb3. | bm. |
| | Wick | c | c | cbc | bc |
| 16 | Lerwick | c | c | cbc | bc |
| 17 | Blacksod Point | prc | cq | cq | pr |
| 18 | Malin Head | bcc3. | cidc3.3. | c3.3. | c |
| | Aldergrove | ocm. | cr.m. | cr.m. | com. |
| | Donaghadee | id.cmo | c | c | cp.rc |
| 19 | Birr Castle | crc | cr.c | c | c |
| 20 | Valentia Obsy. | cid. | cid.id | cir. | ir. |
| | Roches Point | cp.c | cp.c | c | c |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s., slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s./k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus. R, heavy rain. r., slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ◐, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; –, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/10 of the sky.
"9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

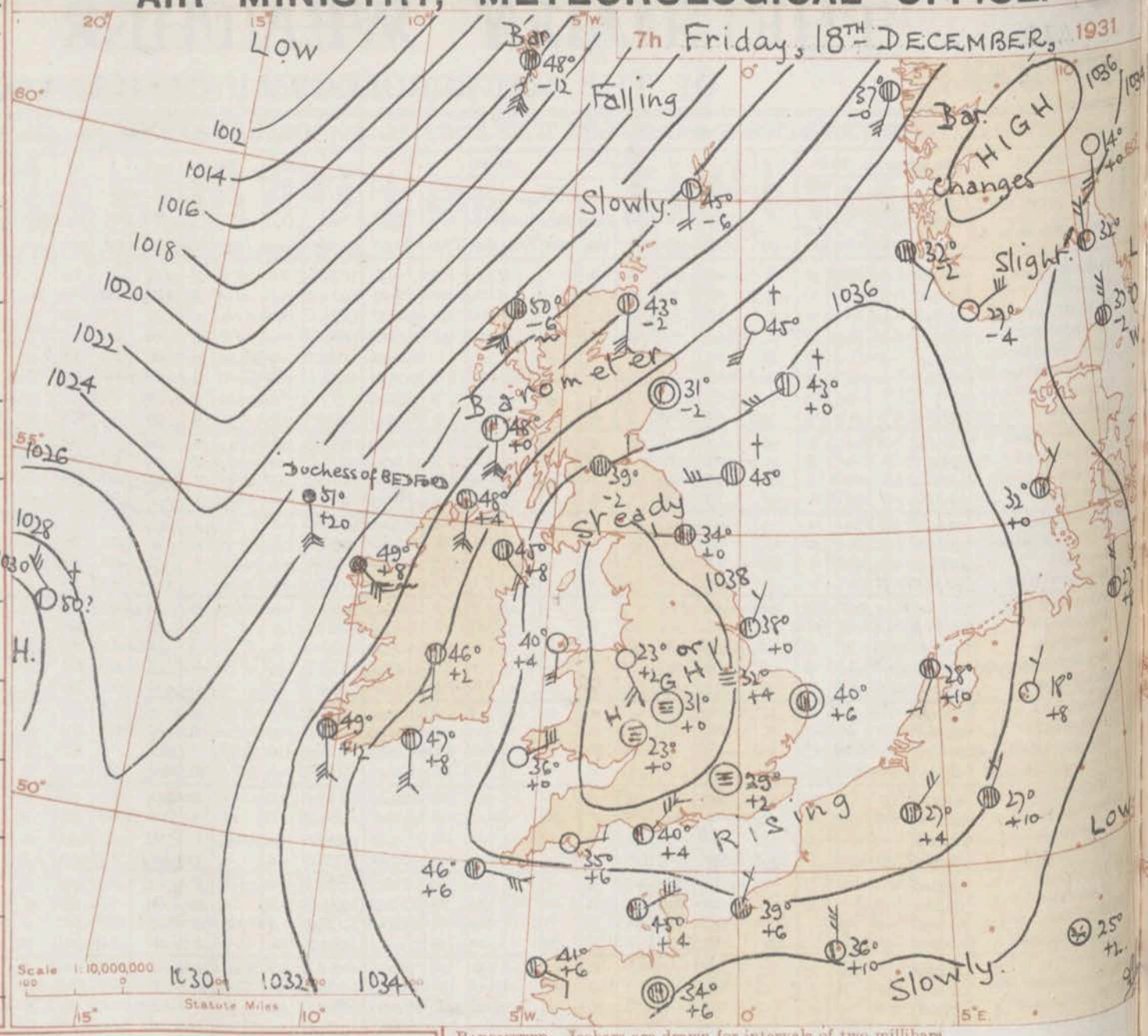
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for 17th DECEMBER, 1931.

| Districts. | Stations. | Weather. Fore-noon. | Weather. After-noon. | Temperature. Min. 9h. 16th to 9h. 17th | Temperature. Max. 9h.—17h. 17th | Rainfall. Night. 17h. 16th to 9h. 17th | Rainfall. Day. 9h.—17h. 17th | Sunshine. Sunrise to Sunset. 17th |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | ofcbc | bc | 25 | 41 | - | - | 3·2 |
| | Bournemouth | b | b | 30 | 43 | - | - | 6.1 |
| | Ventnor ... | xbcb | bbc3 | 38 | 44 | - | - | 5.0 |
| | Southsea ... | bmb | bcm | 35 | 44 | - | - | 5.2 |
| | Bognor Regis | b | bbcc | 34 | 44 | - | - | 5·4 |
| | Littlehampton | b | bbcc | 33 | 44 | - | - | 5·1 |
| | Worthing ... | b | bbcc | 34 | 44 | Trace | - | 4·6 |
| | Brighton ... | bcb | bm | 35 | 44 | - | - | 4·2 |
| | Eastbourne† | b | bbcb | 34 | 43 | - | - | 6.6 |
| | Hastings† ... | xb | bcb | 34 | 43 | 0.1 | - | 5.5 |
| | Folkestone ... | wbcb | bbc | 36 | 45 | - | - | 5.4 |
| | Dover... ... | bcb | bbcc | 36 | 45 | - | - | 5.9 |
| | Deal ... ... | bbc | bbc | 34 | 44 | - | - | 4·3 |
| | Ramsgate ... | bc | bc | 40 | 45 | - | - | 3·8 |
| | Margate ... | bc | bc | 42 | 45 | - | - | 4·1 |
| 2 | Southend ... | bfbcm | bcbm | 34 | 42 | Trace | - | 1.7 |
| | Maldon ... | mbbcc | c | 35 | 42 | - | - | 2·7 |
| | Clacton-on-Sea | bcc | cbc | 36 | 44 | - | - | 1·1 |
| | Dovercourt ... | bc | bc | 37 | 44 | - | - | 0.8 |
| | Lowestoft ... | bccpb | cpbc | 35 | 39 | 1 | Trace | 2·1 |
| | Skegness ... | om. | om. | 36 | 41 | Trace | - | 0.0 |
| | Mablethorpe | cor. | or.m. | 36 | 42 | 1 | 0.3 | 0.0 |
| | Cleethorpes ... | oforo | or.o | 38 | 41 | - | 0.2 | 0.0 |
| 3 | Leamington S. | mbc | bcm | 28 | 41 | - | - | 0.3 |
| 4 | Cheltenham† | bxbf | bf | 30 | 41 | - | - | 6.1 |
| 5 | Bath ... ... | mb | b | 31 | 42 | - | - | 6.1 |
| | Weymouth ... | b | b | 35 | 44 | - | - | 7.0 |
| | Jersey ... | bc | bcf | 40 | 50 | - | - | 4·0 |
| | Torquay ... | c3. | cb | 44 | 47 | - | - | 5.6 |
| | Penzance ... | c | c | 49 | 51 | 4 | - | 0.0 |
| | St. Ives ... | o | o | 46 | 51 | Trace | - | 0.0 |
| | Bude ... ... | o | c | 39 | 43 | - | - | 0.0 |
| | Ilfracombe ... | o | cbcb | 43 | 46 | - | - | 0.7 |
| 6 | Aberystwyth | cm | cmcm. | 42 | 46 | - | - | 0.0 |
| 7 | Llandudno ... | c | bcb | 41 | 49 | - | - | 2·2 |
| | Colwyn Bay... | cbc | bcb | 40 | 48 | - | - | 2·8 |
| | Rhyl ... ... | bccm. | cbcc | 37 | 47 | - | - | 2·4 |
| 8 | Wallasey ... | xccbc | bccbc | 39 | 43 | - | - | 0.7 |
| | Southport‖ ... | oco | oboc | 35 | 43 | - | - | 1.7 |
| | Blackpool ... | c | c | 35 | 43 | - | - | 0.0 |
| | Morecambe ... | c | cmo | 37 | 43 | - | - | 0.0 |
| 9 | Ilkley... ... | bc | bc | 26 | 34 | - | - | 0·2 |
| 10 | Berwick-on-T. | c | c | 28 | 36 | - | - | 0.4 |
| 11 | Dunbar ... | cm.x | c.m. | 34 | 40 | - | - | 0·0 |
| 12 | Douglas ... | omc | oidm | 42 | 45 | 0.3 | Trace | 0.0 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

# AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
Clear sky. Sky less than 1/10 clouded. Sky 1/10 to 5/10 clouded. Sky 6/10 to 9/10 clouded. Overcast sky.
Rain falling. Snow. Hail. Fog. Mist. Thunder. Thunderstorm.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 18th Dec. 1931. |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands<br>4. W. Midlands<br>5. S.W. England<br>6. South Wales<br>7. North Wales<br>8. N.W. England<br>9. N. Midlands<br>10. N.E. England | Light variable breeze; widespread fog, especially inland, dense locally; otherwise fair; cold, with frost at night, persisting all day locally in fog. |
| 11. S.E. Scotland<br>12. S.W. Scotland & Isle of Man | Light or moderate southwest wind; fair apart from local fog; rather cold, frost locally at night. |
| 13. A. W. Scotld. B. N.W. Scotland. | Fresh or strong southerly wind, veering and moderating temporarily; cloudy, some rain locally; mild. |
| 14. Mid-Scotland<br>15. N.E. Scotland | Moderate south to southwest wind; mainly fair; moderate day temperature, frost locally at night. |
| 16. Orkneys and Shetlands. | Fresh south to southwest wind; cloudy, perhaps slight rain; rather mild. |
| 17. N.W. Ireland | As 13. |
| 18. N.E. Ireland | Light or moderate southerly wind; cloudy; moderate temperature. |
| 19. S.E. Ireland | Light southerly to variable wind; cloudy, local drizzle; mild. |
| 20. S.W. Ireland | |

### GENERAL INFERENCE.

An anticyclone remains centred over England and pressure is becoming high from the Azores to Central Europe, while depressions will continue to move northeast over Iceland, Except in the extreme northwest, weather will be quiet and dry, but fog will be widespread over England and dense locally.

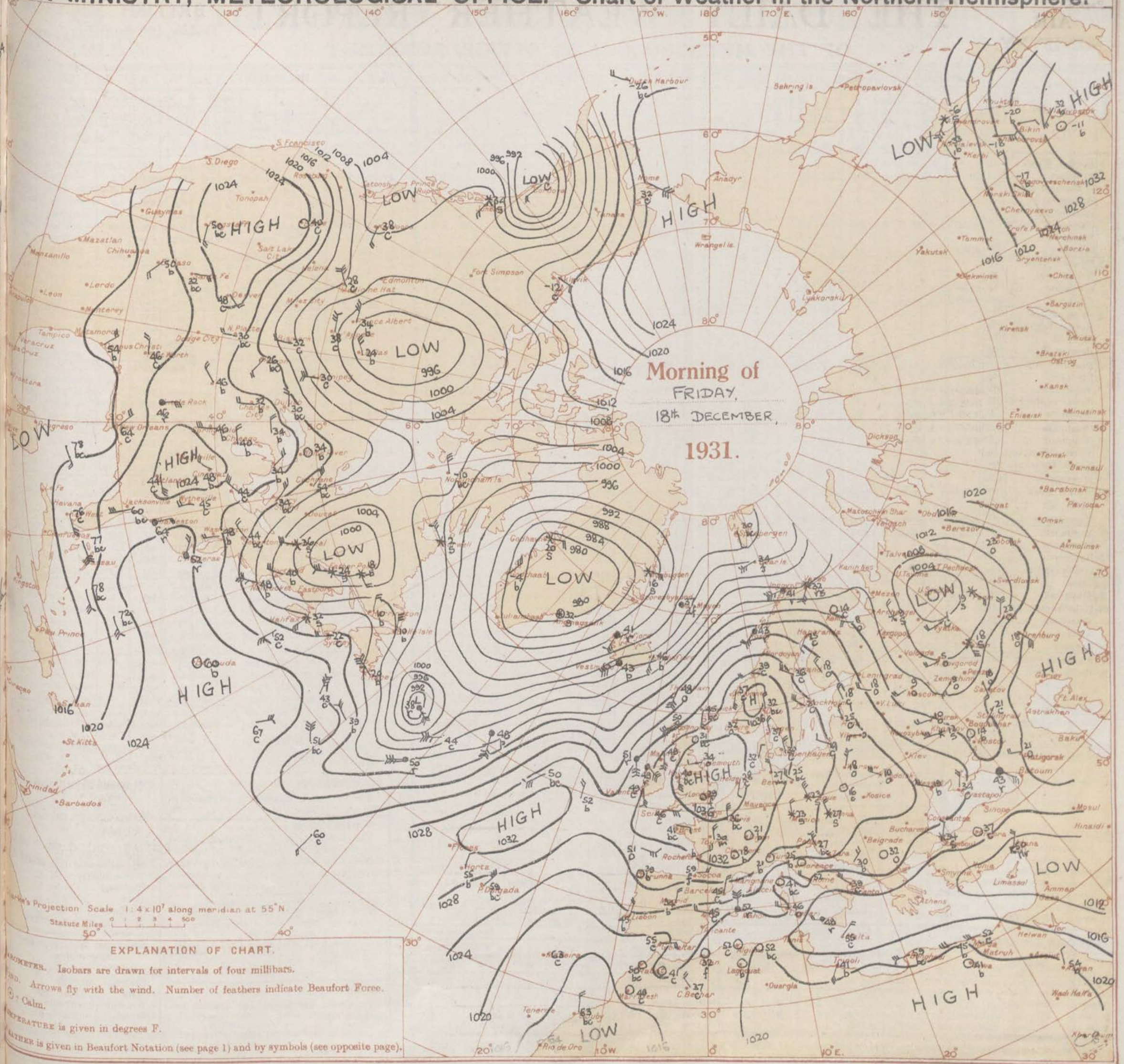
### FURTHER OUTLOOK.

Little change.

Forecasts issued at 1010 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S.
Director.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 18th December, 1931.

No. 25,593.

### OBSERVATIONS at 1 hr. G.M.T. 18th December

| District. | Stations. | Height above M.S.L. in feet. | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force. 0-12 (4) | Weather. (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud. Form. Low (9) | Cloud. Form. Med. (10) | Cloud. Form. High (11) | Cloud. Amount. Low 0-10 (12) | Cloud. Amount. Total 0-10 (13) | Height of Base. (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) ... | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 217 | 1037.1 | +2 | E | 1 | b/f | 30 | 95 | 4 | – | – | – | 0 | 0 | – |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester ... | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot, (S'thmtn) | 8 | 1036.7 | +4 | N'E | 2 | bc | 35 | 95 | 6 | 5 | – | – | 2-3 | 2-3 | 4000 |
| | Dungeness ... | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne ... | 346 | 1036.1 | +6 | N | 3 | b | 35 | 95 | 6 | – | – | – | 0 | 0 | – |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston ... | 14 | 1036.3 | 0 | E'N | 4 | bc | 40 | 85 | 7 | 5 | – | – | 4-6 | 4-6 | 1500 |
| | Cranwell ... | 240 | 1038.4 | +6 | NW'N | 1 | b | 32 | 95 | 4 | – | – | 1 | 0 | 1 | – |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield ... | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye ... | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill ... | 39 | 1036.2 | +6 | NE | 3 | c | 42 | 65 | 7 | 4 | 2 | – | 7-8 | 9+ | 2500 |
| | Plymouth ... | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth ... | 200 | 1035.4 | +4 | E'N | 4 | q | 45 | 75 | 7 | 5 | – | – | 7-8 | 7-8 | 4000 |
| | Scilly (St. Mary's) | 163 | 1035.0 | +4 | ESE | 2 | c | 43 | 85 | 8 | 5 | – | – | 7-8 | 7-8 | 4000 |
| | Guernsey ... | 175 | 1035.1 | +4 | ESE | 1 | c | 45 | 65 | 8 | 5 | – | – | 7-8 | 7-8 | 2500 |
| 6 | Pembroke ... | 142 | 1035.7 | +2 | ESE | 3 | bc | 43 | 85 | 7 | 5 | 6 | 4 | 1 | 2-3 | 4000 |
| 7 | Holyhead ... | 26 | 1036.6 | +6 | S'W | 3 | bc | 42 | 85 | 6 | 5 | 3 | – | 2-3 | 2-3 | 5700 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate ... | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head ... | 29 | 1037.6 | +2 | NE'E | 2 | ~~c/pr~~ c/pr | 40 | 95 | 8 | 3 | 2 | – | 4-6 | 7-8 | 4000 |
| | Catterick ... | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth ... | 67 | 1037.3 | 0 | W | 2 | bc | 32 | 85 | 4 | 5 | – | – | 4-6 | 4-6 | 800 |
| 11 | Inchkeith ... | 190 | 1036.9 | +4 | SW | 2 | of | 38 | 95 | 2 | 5 | – | – | 10 | 10 | 800 |
| | Leuchars ... | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew ... | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree ... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway ... | 34 | 1029.6 | -6 | S | 7 | pr | 47 | 95 | 6 | 9 | 7 | – | 7-8 | 10 | 2500 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen ... | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick ... | 81 | 1033.0 | -4 | S | 4 | bc | 43 | 95 | 8 | 6 | 1 | – | 2-3 | 2-3 | 4000 |
| 16 | Lerwick ... | 54 | 1033.0 | -10 | S | 3 | bc | 45 | 75 | 7 | 6 | – | – | 2-3 | 2-3 | 1500 |
| 17 | Blacksod Point | 18 | 1029.4 | 0 | SE | 6 | q | 51 | 75 | 6 | 8 | – | – | 9 | 9 | <150 |
| 18 | Malin Head ... | 52 | 1032.2 | +4 | SSE | 2 | c | 48 | 95 | 6 | 5 | – | – | 10 | 10 | 2500 |
| | Aldergrove ... | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee ... | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1031.1 | +6 | SSE | 4 | o/r | 50 | 85 | 8 | 9 | – | – | 10 | 10 | 800 |
| | Roches Point ... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 18th December

| Stations. | Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind. Direc. (17) | Wind. Force. 0-12 (18) | Weather. (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud. Form. Low (23) | Cloud. Form. Med. (24) | Cloud. Form. High. (25) | Cloud. Amount. Low. 0-10 (26) | Cloud. Amount. Total 0-10 (27) | Height of Base (feet) (28) | State of Ground. 0-9 (29) | Sea. 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) ... | 1038.0 | 0 | NW'W | 1 | F | 30 | 95 | 1 | 5 | – | – | 10 | 10 | <150 | 4 | * |
| Croydon ... | 1037.6 | +2 | – | 0 | F | 29 | 95 | 0 | 5 | – | – | 10 | 10 | <150 | 1 | * |
| S. Farnborough | 1038.1 | +2 | NNE | 1 | F | 27 | 95 | 1 | 5 | – | – | 10 | 10 | <150 | 4 | * |
| Winchester ... | 1038.1 | 0 | – | 0 | b | 25 | 95 | 5 | – | – | – | 0 | 0 | – | 4 | * |
| Boscombe Down | 1038.1 | +4 | NE | 1 | b | 27 | 95 | 5 | – | – | – | 0 | 0 | – | 0 | * |
| Calshot, (S'thmtn) | 1037.0 | +2 | NNW | 1 | b | 32 | 95 | 6 | – | – | – | 0 | 0 | – | 0 | 0 |
| Dungeness ... | * | * | E | 3 | c/pr | * | * | 7 | 8 | – | * | 9+ | 9+ | 1500 | * | 1 |
| Lympne ... | 1036.9 | +4 | E | 2 | c/r | 35 | 95 | 8 | 5 | 2 | – | 4-6 | 9+ | 2500 | 1 | * |
| Shoeburyness | 1037.7 | +2 | NNW | 2 | c | 34 | 95 | 6 | 5 | – | – | 9+ | 9+ | 1500 | 0 | * |
| Felixstowe ... | 1037.4 | +4 | NW'N | 1 | c | 35 | 95 | 7 | 5 | – | – | 9 | 9 | ~~4000~~ 2500 | 1 | 1 |
| Gorleston ... | 1037.6 | +6 | – | 0 | c | 40 | 85 | 7 | 4 | – | – | 9 | 9 | 2500 | 0 | 2 |
| Cranwell ... | 1038.5 | +4 | NW | 1 | F | 32 | 95 | 2 | 5 | – | – | 9+ | 9+ | 4000 | 4 | * |
| Birmingham ... | 1038.6 | 0 | – | 0 | bF | 31 | 95 | 2 | – | – | – | 0 | 0 | – | 1 | * |
| Upper Heyford | 1038.5 | +4 | N'E | 2 | b | 30 | 95 | 4 | – | – | – | 0 | 0 | – | 4 | * |
| Leafield ... | 1038.2 | 0 | NNW | 1 | b | 27 | 95 | 4 | – | – | – | 0 | 0 | – | 4 | * |
| Ross-on-Wye ... | 1038.1 | 0 | – | 0 | F | 23 | 95 | 1 | 5 | – | – | 10 | 10 | <150 | 4 | * |
| Portland Bill ... | 1036.5 | +4 | NE | 4 | bc | 40 | 85 | 6 | 5 | 1 | – | 4-6 | 4-6 | 1500 | 0 | 3 |
| Plymouth ... | 1036.8 | +6 | E | 1 | b | 35 | 85 | 8 | – | – | – | 0 | 0 | – | 5 | 0 |
| Falmouth ... | 1035.7 | +6 | E'N | 2 | bc | 41 | 75 | 7 | 5 | – | – | 4-6 | 4-6 | 4000 | 0 | 1 |
| Scilly (St. Mary's) | 1035.1 | +6 | E'S | 4 | c | 46 | 85 | 7 | 8 | – | – | 10 | 10 | 4000 | 1 | 2 |
| Guernsey ... | 1035.5 | +4 | E'N | 3 | c | 45 | 75 | 7 | 8 | – | – | 7-8 | 7-8 | 2500 | 0 | 2 |
| Pembroke ... | 1037.1 | 0 | ENE | 3 | b | 36 | 95 | 7 | – | – | – | 0 | 0 | – | ~~1~~ 2 | 0 |
| Holyhead ... | 1037.3 | +4 | S | 3 | b | 40 | 85 | 6 | – | – | – | 0 | 0 | – | 1 | 1 |
| Chester (Sealand) | 1038.6 | +2 | SE | 2 | b | 23 | 95 | 4 | – | – | – | 0 | 0 | – | 4 | * |
| L'pool (Bidston) | 1038.2 | 0 | SE'E | 3 | bF | 30 | 95 | 3 | – | – | – | 0 | 0 | – | 5 | * |
| Harrogate ... | 1038.4 | 0 | SW | 1 | b | 30 | 85 | 7 | – | 7 | – | 0 | 1 | – | 4 | * |
| Spurn Head ... | 1037.9 | 0 | NNE | 1 | jp | 38 | 95 | 7 | 3 | 2 | – | 2-3 | 4-6 | 4000 | 1 | 3 |
| Catterick ... | 1038.0 | 0 | – | 0 | c | 30 | 95 | 5 | 5 | – | – | 9 | 9 | 2500 | 4 | * |
| Tynemouth ... | 1037.3 | 0 | W | 1 | o | 34 | 95 | 5 | 5 | – | – | 10 | 10 | 1500 | 4 | 1 |
| Inchkeith ... | 1036.4 | 0 | S | 1 | o | 39 | 95 | 6 | 5 | – | – | 10 | 10 | 1500 | 0 | 1 |
| Leuchars ... | 1035.8 | -4 | – | 0 | bcF | 32 | 95 | 3 | 5 | – | – | 4-6 | 4-6 | 4000 | 4 | * |
| Renfrew ... | 1036.0 | -2 | ENE | 1 | c | 39 | 95 | 6 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| Eskdalemuir ... | 1038.7 | 0 | – | 0 | b | 23 | 95 | 6 | – | – | – | 0 | 0 | – | 4 | * |
| Tiree ... | 1030.9 | 0 | S | 6 | c | 48 | 95 | 6 | 5 | 7 | – | 7-8 | 9+ | 2500 | 0 | 3 |
| Stornoway ... | 1028.3 | -6 | SW | 6 | o | 50 | 95 | 6 | 6 | – | – | 10 | 10 | 1500 | 1 | 4 |
| Dalwhinnie ... | 1036.2 | -4 | SSE | 3 | bc | 39 | 85 | 8 | 4 | – | – | 2-3 | 2-3 | 2500 | 0 | * |
| Aberdeen ... | 1034.7 | -2 | – | 0 | b | 31 | 95 | 6 | – | 3 | – | 0 | 1 | – | 4 | 1 |
| Wick ... | 1031.6 | -2 | S | 4 | bc | 43 | 85 | 8 | 5 | – | – | 4-6 | 4-6 | 2500 | 0 | 3 |
| Lerwick ... | 1030.2 | -6 | S'W | 2 | bc | 45 | 95 | 7 | 5 | – | – | 4-6 | 4-6 | 1500 | 0 | * |
| Blacksod Point | 1030.4 | +8 | SE | 6 | ir | 49 | 95 | 7 | 3 | – | – | 10 | 10 | <150 | 1 | 4 |
| Malin Head ... | 1032.1 | +4 | S | 5 | c | 48 | 95 | 7 | 5 | 1 | – | 7-8 | 9+ | 2500 | 0 | 1 |
| Aldergrove ... | 1035.1 | +8 | SE | 2 | o | 45 | 95 | 6 | 5 | – | – | 10 | 10 | 800 | 1 | * |
| Donaghadee ... | 1035.0 | +2 | W | 1 | c | 46 | 95 | 7 | 5 | – | – | 7-8 | 7-8 | 1500 | 1 | 0 |
| Birr Castle ... | 1033.5 | +2 | S | 2 | c | 46 | 85 | 7 | 5 | – | – | 7-8 | 7-8 | 2500 | 1 | * |
| Valentia Obsy.† | 1032.9 | +12 | SSE | 4 | c | 49 | 85 | 8 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| Roches Point ... | 1035.1 | +8 | S | 4 | c | 47 | 85 | 8 | 3 | – | – | 7-8 | 7-8 | 2500 | 0 | 3 |

### PAST 24 HOURS.

| Stations. | Temperature. Max. Day 7h-18h °F. (31) | Temperature. Min. Night 18h-7h °F (32) | Temperature. Min. on Grass °F. (33) | Rainfall. Day 7h-18h mm. (34) | Rainfall. Night 18h-7h mm. (35) | Sunshine 17th Hrs. (36) |
|---|---|---|---|---|---|---|
| London (Kew) ... | 42 | 29 | 22 | – | 0.1 | 0.0 |
| Croydon ... | 39 | 27 | 22 | – | – | 0.0 |
| S. Farnborough | 40 | 23 | 14 | – | Tr. | 5.9 |
| Winchester ... | 42 | 25 | 18 | – | – | * |
| Boscombe Down | 42 | 26 | 15 | – | – | 5.6 |
| Calshot, (S'thmtn) | 45 | 32 | 19 | – | 1 | * |
| Dungeness ... | 46 | 30 | * | – | 1 | 4.1 |
| Lympne ... | 43 | 32 | ~~29~~ 30 | – | 1 | 4.6 |
| Shoeburyness | 44 | 27 | 25 | – | – | 1.1 |
| Felixstowe ... | 44 | 32 | 27 | Tr. | Tr. | 1.8 |
| Gorleston ... | 42 | 36 | 33 | 0.6 | Tr. | 0.0 |
| Cranwell ... | 38 | 29 | 26 | – | ~~2~~ | 1.4 |
| Birmingham ... | 41 | 29 | 14 | – | – | * |
| Upper Heyford | 42 | 30 | 26 | – | – | 2.7 |
| Leafield ... | 39 | 26 | 20 | – | – | 5.0 |
| Ross-on-Wye ... | 43 | 23 | 17 | – | – | * |
| Portland Bill ... | 45 | 36 | * | – | – | 2.4 |
| Plymouth ... | 46 | 35 | 30 | – | – | 0.0 |
| Falmouth ... | 48 | 39 | * | – | – | 0.1 |
| Scilly (St. Mary's) | 49 | 43 | * | – | Tr. | 3.0 |
| Guernsey ... | 48 | 45 | 37 | – | – | 0.0 |
| Pembroke ... | 48 | 36 | * | – | – | 0.0 |
| Holyhead ... | 47 | 40 | 33 | Tr. | – | 2.3 |
| Chester (Sealand) | 43 | 23 | 17 | – | – | 1.1 |
| L'pool (Bidston) | 41 | 30 | 27 | – | – | 3.4 |
| Harrogate ... | 39 | 27 | 21 | – | – | 0.0 |
| Spurn Head ... | 42 | 37 | * | – | 0.4 | * |
| Catterick ... | 39 | 21 | 14 | – | – | * |
| Tynemouth ... | 39 | 31 | 27 | – | – | 0.0 |
| Inchkeith ... | 42 | 37 | 29 | – | – | 0.0 |
| Leuchars ... | 39 | 31 | 23 | Tr. | Tr. | 0.0 |
| Renfrew ... | 40 | 34 | 26 | – | – | 2.1 |
| Eskdalemuir ... | 40 | 23 | 18 | – | – | 0.0 |
| Tiree ... | 47 | 47 | 45 | – | – | 0.0 |
| Stornoway ... | 48 | 46 | * | – | 0.1 | 0.3 |
| Dalwhinnie ... | 40 | 34 | 28 | – | – | 0.5 |
| Aberdeen ... | 41 | 29 | 21 | – | – | * |
| Wick ... | 44 | 41 | * | – | – | 0.0 |
| Lerwick ... | 43 | 42 | * | – | – | * |
| Blacksod Point | 51 | 48 | * | Tr. | 1 | * |
| Malin Head ... | 48 | 47 | * | 0.1 | – | 0.2 |
| Aldergrove ... | 48 | 45 | 43 | 0.2 | Tr. | 0.0 |
| Donaghadee ... | 49 | 45 | * | 0.2 | 0.4 | * |
| Birr Castle ... | 50 | 45 | 42 | 0.1 | – | 0.4 |
| Valentia Obsy.† | 51 | 48 | 46 | Tr. | 0.6 | 0.0 |
| Roches Point ... | 51 | 47 | * | 0.2 | – | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet. | Weather. Morning. (24 hrs. ended 9h.) | Weather. Afternoon. (24 hrs. ended 9h.) | Weather. Night. (24 hrs. ended 9h.) | Temperature. Day Max. °F. | Temperature. Night Min. °F. | Temperature. Min. on Grass °F. | Rainfall. Day. mm. | Rainfall. Night. mm. | Sunshine to Sunset. hrs. (Yesterday.) | Humidity. 15h. G.M.T. % (Yesterday.) | Humidity. 9h. G.M.T. % (To-day.) | Visibility 9h. (To-day.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew ... | 18 | bxcF | cm | bmxoFx | 42 | 29 | 22 | – | 0.1 | 0.0 | * | * | 1 |
| Croydon ... | 217 | bcfcFF | cffm | cbffxFex | 39 | 27 | 22 | – | – | 0.0 | * | * | 0 |
| Greenwich (Royal Observatory) ... | 149 | cF | c | bmxF | 42 | 29 | 21 | – | Tr. | 0.0 | 77 | 97 | 0 |
| City (Bunhill Row) ... | — | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Westminster (St. James' Park) ... | 27 | * | * | * | 43 | 30 | 26 | – | – | 0.0 | 73 | 91 | * |
| Regents Pk. (Botanic Gardens) ... | 168 | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Camden Square ... | 110 | c | c | * | 41 | 30 | 25 | – | – | * | * | 96 | * |
| Kensington ... | 80 | bo | o | * | 43 | 29 | 22 | – | – | 0.0 | At 18h. 82 | 92 | * |
| Hampstead Observatory ... | 450 | bc | c | * | 39 | 27 | 19 | – | Tr. | 0.0 | * | 99 | * |

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 18th

| South Kensington. Max. | Time. | Min. | Time. | Kew Observatory. Max. | Time. | Min. | Time. |
|---|---|---|---|---|---|---|---|
| 1.3 | 9-10h a 17th | <0.3 | 2-4 hrs. 18th | 1.0 | 12h. 17th | 0.3 | 15h. on 17th |

### FOREIGN OBSERVATIONS.

| Stations. | 18h. G.M.T. 17th December. Barom. mb. | Wind. Direc. | Wind. Force. | Weather. | Temp. °F. | 7h. G.M.T. 18th December. Barom. mb. | Wind. Direc. | Wind. Force. | Weather. | Temp. °F. | Past 24 Hours. Max. Day °F. | Min. Night °F. | Rainfall. Day. mm. | Rainfall. Night. mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris ... | 1033.9 | N | 2 | c | 39 | 1034.7 | N | 3 | bc | 36 | 43 | 36 | – | – |
| Brussels ... | 1033.6 | NW | 2 | c | 37 | 1036.8 | NE | 2 | o | 27 | 39 | 25 | – | – |
| Berlin ... | 1027.6 | NNW | 3 | b | 28 | 1031.3 | NW | 2 | bc | 25 | 34 | 23 | 5 | ? |
| Zurich ... | 1032.0 | E | 1 | b | 25 | 1031.2 | S | 1 | if | 19 | 36 | 16 | – | – |
| Rome ... | 1017.4 | E | 2 | c | 45 | 1020.5 | ENE | 3 | b | 34 | 1 | 30 | 9 | – |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort. No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13-18 | 9 | 47-54 |
| 1 | 1-3 | 5 | 19-24 | 10 | 55-63 |
| 2 | 4-7 | 6 | 25-31 | 11 | 64-75 |
| 3 | 8-12 | 7 | 32-38 | 12 | 75 |
| | | 8 | 39-46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | Objects not visible at |
|---|---|
| 0 Dense fog | 55 yards. |
| 1 Thick fog | 220 " |
| 2 Fog | 550 " |
| 3 Moderate fog | 1,100 " |
| 4 Mist or haze | 1¼ miles. |
| 5 Poor visibility | 2½ " |
| 6 Moderate " | 6¼ " |
| 7 Good " | 12½ " |
| 8 Very good " | 31 " |
| 9 Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | |
|---|---|
| 0 Calm. | 5 Very rough. |
| 1 Smooth. | 6 High. |
| 2 Slight. | 7 Very high. |
| 3 Moderate. | 8 Precipitous. |
| 4 Rough. | 9 Confused. |

TERMS OF SUBSCRIPTION. { Single Copies, 1d. each; by post 1½d. / 2/6 per month; 6/6 per quarter; 25/- per year.

METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 19th December, 1931.

No. 25,594.

| District. | Stations. (For heights see p. 4.) | OBS. 13h. G.M.T. 18th December. Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0-12 (4) | Weather. (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud. Form. Low. (9) | Form. Med. (10) | Form. High (11) | Amount. Low 0-10 (12) | Amount. Total 0-10 (13) | Height of Base. (feet) (14) | OBS. 18h. G.M.T. 18th December. Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind. Direc. (17) | Wind. Force 0-12 (18) | Weather. (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud. Form. Low. (23) | Form. Med. (24) | Form. High. (25) | Amount. Low 0-10 (26) | Amount. Total 0-10 (27) | Height of Base (feet) (28) | State of Ground. 0-9 (29) | Sea. 0-9 (30) | PAST 24 HOURS. Weather. 7h.–13h. 18th (37) | 13h.–18h. 18th (38) | 18h. 18th to 1h. 19th (39) | 1h.–7h. 19th (40) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) ... | 1039.3 | 0 | WS | 1 | F | 33 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 1039.8 | +6 | SW | 1 | F | 33 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 1 | * | of | of | ofx | ofx |
| | Croydon ... | 1039.2 | +2 | NW | 2 | F | 31 | 96 | 0 | 5 | - | - | 10 | 10 | <150 | 1039.6 | +6 | - | 0 | f- | 32 | 95 | 2 | 5 | - | - | 10 | 10 | <150 | 1 | * | offx | offex | offx | offex |
| | S. Farnborough | 1039.3 | +2 | - | 0 | F | 30 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 1039.7 | +2 | - | 0 | F | 28 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 4 | * | xFF | FFx | Fx | bcffx |
| | Winchester ... | 1039.1 | 0 | NNE | 2 | F | 31 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 1039.2 | +2 | ENE | 2 | bcf | 30 | 96 | 4 | 4 | - | - | 4.6 | 4.6 | 2600 | 1 | * | bxFF | FFbcm | bcbmx | bbcmx |
| | Boscombe Down | 1039.1 | -6 | N | 1 | b | 35 | 86 | 5 | - | - | - | 0 | 0 | - | 1039.2 | 0 | NNE | 1 | bc | 32 | 95 | 5 | - | 1 | - | 0 | 2.3 | - | 0 | * | bFbm₀ | bcbm₀x | bm₀F | bFbm₀ |
| | Calshot, S'thmtn | 1038.6 | 0 | N | 1 | b | 39 | 86 | 5 | - | - | - | 0 | 0 | - | 1038.7 | +4 | N | 1 | bc | 36 | 96 | 5 | 5 | - | - | 4.6 | 4.6 | 5700 | | | bm₀x | bm₀cbc | bcm₀x | bcm₀x |
| | Dungeness ... | * | * | ESE | 3 | c | * | * | 7 | 8 | 1 | - | 7.8 | 9 | 1500 | * | * | ENE | 2 | c | * | * | 7 | 4 | 7 | * | 7.8 | 9 | 1500 | * | 0 | bc | bc | * | F |
| | Lympne ... | 1038.4 | -2 | ESE | 2 | o | 38 | 75 | 7 | 5 | - | - | 10 | 10 | 2500 | 1039.3 | +6 | NE | 1 | c | 36 | 85 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * | c | cor₀s₀o | cbm₀x | bbcmx |
| 2 | Shoeburyness | 1038.7 | 0 | W | 1 | c | 38 | 95 | 4 | 5 | - | - | 10 | 10 | 2500 | 1039.4 | +10 | NNW | 1 | cf | 35 | 95 | 3 | 5 | - | - | 9 | 9 | 2500 | 0 | * | cm₀ | cmf | fx | Fx |
| | Felixstowe ... | 1038.4 | 0 | NE | 1 | c | 41 | 85 | 7 | 7 | - | - | 9 | 9 | 4000 | 1038.9 | 0 | SWS | 1 | bc | 38 | 85 | 7 | 5 | - | - | 4.6 | 4.6 | 5700 | 0 | 0 | c3₀ | cpr₀bc | bcbw | bcffx |
| | Gorleston ... | 1037.6 | 0 | WSW | 1 | c/f- | 42 | 85 | 4 | 4 | 7 | - | 4.6 | 7.8 | 2500 | 1038.3 | +4 | W | 2 | c | 38 | 96 | 6 | - | 3 | - | 0 | 9 | - | 0 | 1 | cff | fmbc | cm₀bcm₀ | bcmx |
| | Cranwell ... | 1039.2 | -2 | WS | 2 | cf | 35 | 95 | 2 | 5 | - | - | 9+ | 9+ | 4000 | 1039.1 | -2 | W | 2 | bcf | 31 | 95 | 3 | - | - | 1 | 0 | 2.3 | - | 1 | * | cfxcf | cbcfx | bfx | bfxm |
| 3 | Birmingham ... | 1039.4 | -2 | - | 0 | bcf | 38 | 75 | 3 | 1 | - | - | 4.6 | 4.6 | 2500 | 1039.0 | 0 | SSW | 1 | bf | 34 | 85 | 3 | - | - | - | 0 | 0 | - | 1 | * | bcf | bcmbf | bfmx | bx |
| | Upper Heyford | 1039.1 | -4 | - | 0 | bc | 38 | 85 | 5 | 5 | 3 | 9 | 2.3 | 4.6 | 5700 | 1039.8 | +6 | - | 0 | bf | 30 | 95 | 3 | - | - | 1 | 0 | 1 | - | 4 | * | bbcmm₀ | bcc,bmf | bFexbc | bbcfem |
| | Leafield ... | 1039.1 | +16 | ESE | 1 | bc | 38 | 65 | 6 | 1 | - | 5 | r. | 2.3 | 4000 | 1039.3 | 0 | - | 0 | b | 32 | 96 | 5 | - | - | - | 0 | 0 | - | 4 | * | ff | bc | bx | bcx |
| 4 | Ross-on-Wye ... | 1039.3 | -4 | - | 0 | cF | 26 | 95 | 1 | 5 | - | - | 9 | 9 | <150 | 1038.9 | 0 | W | 1 | F | 24 | 95 | 0 | 5 | - | - | 10 | 10 | <150 | 4 | * | FFx | bFxofx | FFx | FFx |
| 5 | Portland Bill... | 1038.0 | +2 | NE | 3 | bc | 42 | 75 | 7 | 2 | - | - | 2.3 | 2.3 | 2500 | 1037.8 | +4 | ENE | 3 | bc | 42 | 75 | 7 | 4 | - | - | 2.3 | 2.3 | 2500 | 0 | 2 | bcbc | bcbc | bc | c |
| | Plymouth ... | 1037.9 | -4 | E | 1 | b | 42 | 75 | 8 | 4 | - | - | 1 | 1 | 4000 | 1038.0 | +4 | E | 3 | b | 38 | 95 | 6 | - | - | 1 | 0 | 1 | - | 1 | 1 | bcbcm₀ | bcbm₀ | | bcm₀ |
| | Falmouth ... | 1037.2 | +4 | NNE | 1 | c | 43 | 85 | 7 | 8 | 3 | - | 7.8 | 9 | 4000 | 1036.8 | +4 | ENE | 2 | c | 46 | 75 | 7 | 5 | - | - | 9 | 9 | 4000 | 0 | 1 | bcc | cbcc | cbcm₀ | bcc |
| | Scilly (St. Mary's) | 1036.6 | 0 | ESE | 3 | c | 48 | 75 | 7 | 8 | - | - | 7.8 | 7.8 | 4000 | 1036.7 | +2 | SE | 3 | c | 47 | 75 | 7 | 8 | 1 | - | 7.8 | 7.8 | 4000 | 0 | 1 | c | c | cbc | bcc |
| | Guernsey ... | 1036.9 | +2 | ENE | 3 | bc | 46 | 65 | 8 | 7 | 3 | - | 4.6 | 4.6 | 2500 | 1037.3 | 0 | ESE | 4 | bc | 42 | 65 | 9 | - | 7 | - | 0 | 4.6 | - | 0 | 3 | cbc | bc | bcv | bcv |
| 6 | Pembroke ... | 1038.4 | +2 | E | 2 | bc | 40 | 95 | 7 | 1 | 6 | - | 2.3 | 4.6 | 4000 | 1037.2 | +2 | ESE | 2 | bc | 42 | 95 | 7 | 1 | 6 | - | 1 | 2.3 | 4000 | 0 | 1 | bc | bc | cm₀ | c |
| 7 | Holyhead ... | 1037.6 | -6 | SE | 4 | c | 42 | 75 | 7 | - | 3 | 2 | 0 | 9+ | - | 1037.8 | +4 | S | 3 | c | 42 | 85 | 7 | - | 7 | - | 0 | 9+ | - | 1 | 0 | bm₀c | bcc | c ⊕ | cbcm₀ |
| | Chester (Sealand) | 1039.1 | -6 | SE | 1 | b | 34 | 86 | 4 | - | - | - | 0 | 0 | - | 1038.8 | +2 | SE | 1 | b | 27 | 96 | 4 | - | - | 2 | 0 | 1 | - | 1 | * | bmx | bcbcm | bmx | bccx |
| 8 | L'pool (Bidston) | 1038.4 | 0 | SES | 2 | bc | 37 | 75 | 4 | - | - | 6 | 0 | 2.3 | - | 1038.5 | +2 | SE | 2 | c | 35 | 85 | 4 | 5 | - | - | 9 | 9 | 2500 | 0 | * | xbfbm | bccmc | mccmx | xcmom |
| 9 | Harrogate ... | 1038.2 | 0 | SW | 1 | c | 37 | 75 | 6 | - | 3 | - | 0 | 9+ | - | 1038.1 | 0 | WSW | 2 | b | 33 | 75 | 6 | - | - | - | 0 | 0 | - | 4 | * | bbcc | cb | b | bx |
| 10 | Spurn Head ... | 1038.3 | +2 | NW | 3 | c | 40 | 86 | 5 | 5 | 3 | - | 2.3 | 10 | 1600 | 1038.1 | 0 | W | 2 | bc | 37 | 85 | 5 | 5 | - | - | 4.6 | 4.6 | 1500 | 0 | 2 | cprfm | cmfbc | cmm | cbcf |
| | Catterick ... | 1038.1 | -10 | SSE | 2 | c | 34 | 85 | 4 | - | - | 6 | 0 | 7.8 | - | 1037.9 | 0 | - | 0 | c | 27 | 96 | 4 | - | 3 | 2 | 0 | 7.8 | - | 4 | * | cmxm | bcmx | bcmx | bcmcfx |
| | Tynemouth ... | 1037.1 | +6 | SW | 1 | cf | 37 | 95 | 2 | 5 | - | - | 7.8 | 7.3 | 1500 | 1037.0 | 0 | WSW | 2 | bcf | 37 | 95 | 2 | 5 | - | - | 4.6 | 4.6 | 1500 | 4 | 1 | ocff | cbcff | bcff | o |
| 11 | Inchkeith ... | 1036.9 | 0 | WSW | 1 | c | 42 | 85 | 4 | 5 | - | - | 9+ | 9+ | 800 | 1035.3 | -2 | W | 3 | c | 43 | 96 | 6 | 5 | 7 | - | 7.8 | 9 | 1500 | 0 | 2 | ommc | mbfc | cir₀o | or₀r₀ |
| | Leuchars ... | 1036.7 | -4 | W | 2 | bc | 39 | 85 | 4 | 5 | 3 | - | 2.3 | 4.6 | 4000 | 1036.0 | +2 | WSW | 2 | ir₀ | 41 | 85 | 4 | 5 | 3 | - | 9 | 9+ | 2500 | 1 | * | fxcbcm | bccr₀m | cir₀m₀ | cr₀r₀c |
| 12 | Renfrew ... | 1035.7 | -6 | S | 3 | c | 44 | 85 | 5 | 5 | - | - | 9+ | 9+ | 2500 | 1036.6 | +2 | SW | 3 | id₀ | 45 | 95 | 5 | 6 | 2 | - | 7.8 | 10 | 2500 | 1 | * | mr₀ff m₀ | c,r₀cm₀ | cdor₀m₀ | cr₀r₀ |
| | Eskdalemuir ... | 1038.3 | -6 | - | 0 | c | 31 | 95 | 5 | - | 3 | - | 0 | 10 | - | 1037.4 | 0 | SW | 1 | c | 34 | 85 | 6 | - | 3 | - | 0 | 10 | - | 4 | * | bccx | cxc | ccd₀ | cd₀₀d₀ |
| 13A | Tiree ... | 1031.1 | -4 | SW | 6 | r₀r₀ | 48 | 95 | 6 | 4 | 2 | - | 9+ | 10 | 800 | 1033.1 | +14 | NNW | 12 | bc | 48 | 95 | 8 | 5 | 7 | - | 2.3 | 4.6 | 2500 | 1 | 1 | cir rr | rrcir | bcbx | bcc |
| 13B | Stornoway ... | 1028.5 | +2 | SW | 2 | c | 49 | 95 | 8 | 8 | 7 | - | 7.8 | 10 | 1500 | 1031.9 | +16 | WSW | 1 | bc | 43 | 95 | 8 | 8 | 7 | - | 2.3 | 4.6 | 4000 | 1 | 1 | cir | bcpr | bcb | bbc |
| 15 | Dalwhinnie ... | 1033.8 | +8 | SSW | 4 | c | 38 | 75 | 6 | 4 | 2 | - | 7.8 | 10 | 800 | 1035.1 | +6 | S | 2 | c | 41 | 95 | 6 | 4 | 2 | - | 4.6 | 10 | 1500 | 1 | * | c | c | * | bc |
| | Aberdeen ... | 1033.5 | -12 | SW | 2 | b | 44 | 75 | 6 | - | 3 | - | 0 | 1 | - | 1033.8 | +2 | SW | 1 | r₀r₀ | 42 | 95 | 5 | 6 | - | - | 10 | 10 | 1500 | 1 | 1 | b3₀ | bcr₀r₀ | cir₀ | cir₀ |
| | Wick ... | 1030.7 | -2 | SSW | 4 | pr | 46 | 85 | 7 | 8 | 2 | - | 7.8 | 10 | 2500 | 1031.0 | +8 | SW | 3 | c | 45 | 85 | 7 | 5 | 1 | - | 7.8 | 10 | 2500 | 1 | 3 | bcepr | cpr | cbc ⊕ | bcw |
| 16 | Lerwick ... | 1028.8 | -12 | WSW | 3 | id₀ | 48 | 85 | 6 | 6 | 2 | - | 4.6 | 9+ | 1500 | 1028.5 | +4 | SW | 4 | dd | 47 | 95 | 5 | 6 | - | - | 10 | 10 | 800 | 1 | * | bccid | cidoddm | ordm₀bc | bc |
| 17 | Blacksod Point | 1032.9 | +10 | SE | 3 | ir | 49 | 95 | 7 | 3 | - | - | 10 | 10 | <150 | 1033.6 | +10 | SE | 3 | rr | 47 | 95 | 7 | 6 | - | - | 10 | 10 | <150 | 1 | 3 | ir | ir | ir | ir |
| 18 | Malin Head ... | 1033.2 | +8 | SSW | 4 | c | 46 | 95 | 6 | 5 | 2 | - | 7.8 | 10 | 1500 | 1034.5 | +12 | S | 3 | c | 46 | 95 | 6 | 5 | 3 | - | 7.8 | 9+ | 1500 | 1 | 2 | cdc3₀3₀ | cir₀c3₀3₀ | cir₀cbc | bce |
| | Aldergrove ... | 1036.2 | +2 | S | 4 | c | 46 | 75 | 6 | 6 | 7 | - | 7.8 | 9 | 4000 | 1036.3 | 0 | S | 3 | ir₀ | 43 | 85 | 6 | 6 | 2 | - | 9 | 10 | 1500 | 1 | * | cm₀ | cr₀m₀ | rrc | cr₀ |
| | Donaghadee ... | 1035.8 | +2 | WSW | 2 | c | 47 | 85 | 7 | 5 | 2 | - | 4.6 | 9 | 2500 | 1036.0 | +2 | WS | 2 | c | 45 | 85 | 7 | 5 | - | - | 9 | 9 | 1500 | 1 | 1 | c | cidc | cid₀bc | bc |
| 19 | Birr Castle ... | 1036.6 | +2 | S | 2 | c | 47 | 85 | 7 | 5 | 9 | - | 4.6 | 9 | 2500 | 1035.8 | +4 | S | 1 | c | 44 | 85 | 7 | - | 7 | - | 0 | 10 | - | 1 | * | c | c | c | c |
| 20 | Valentia Obsy. | 1034.5 | +2 | SES | 4 | ir₀ | 49 | 86 | 8 | 5 | 2 | - | 7.8 | 10 | 1500 | 1034.8 | +6 | SSE | 3 | cir | 48 | 95 | 8 | 5 | 2 | - | 7.8 | 10 | 1500 | 1 | 4 | cbcir₀ | cir₀c | c | r₀r₀c |
| | Roches Point... | 1036.0 | +4 | S | 3 | c | 48 | 85 | 8 | 3 | - | - | 7.8 | 7.8 | 1500 | 1036.0 | +4 | SW | 3 | c | 48 | 95 | 8 | 3 | - | - | 7.8 | 7.8 | 2500 | 0 | 3 | cbc | cbc | cp.bc | b-c |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus. R, heavy rain. r₀, slight rain. rr, continuous rain.

<, less than (for cloud height).

⊕, Solar halo. ⦶, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than 1/10 of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

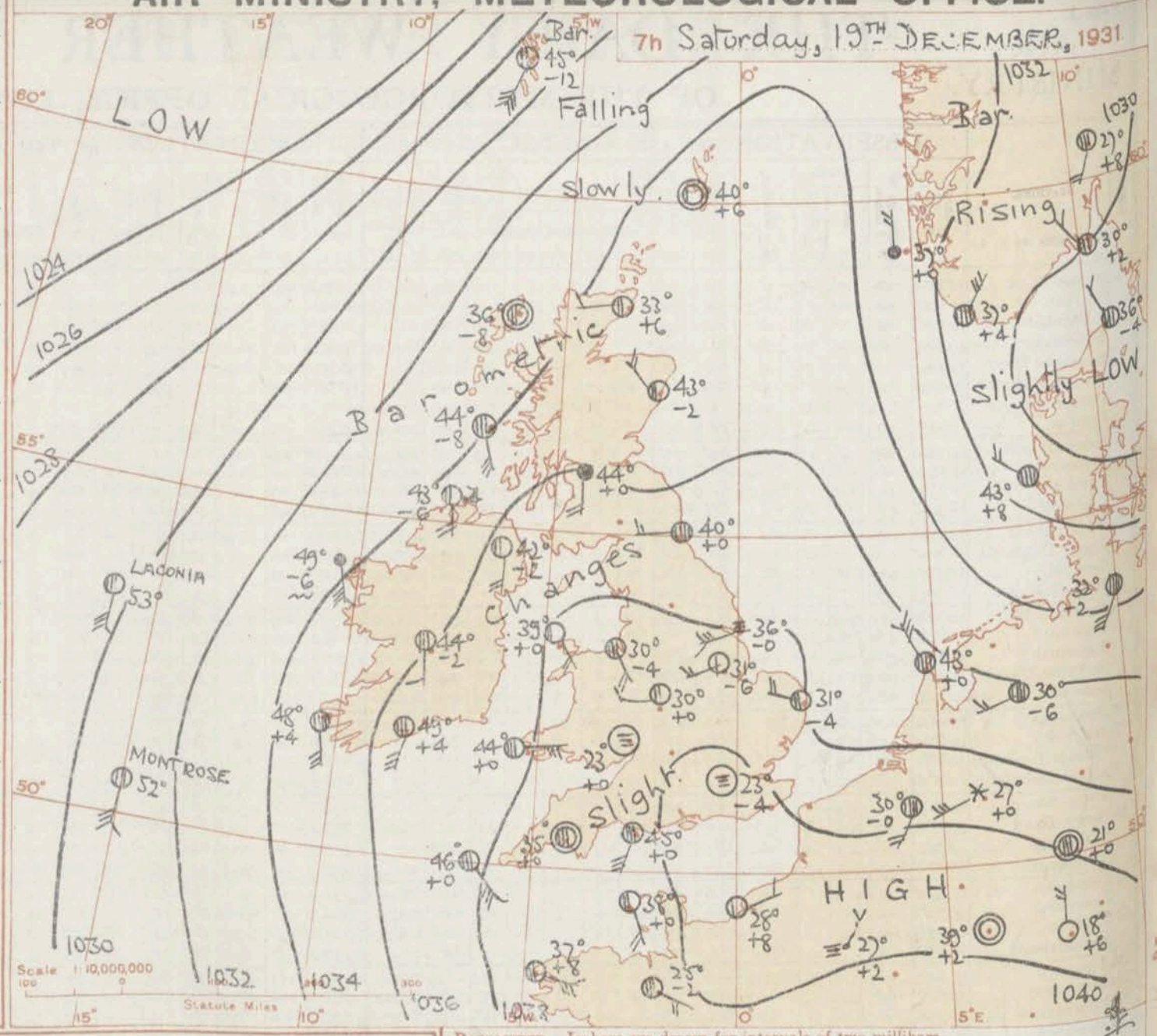
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for 18th December, 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 17th to 9h. 18th | Temperature. Max. 9h.—17h. 18th | Rainfall. Night. 17h. 17th to 9h. 18th | Rainfall. Day. 9h.—17h. 18th | Sunshine. Sunrise to Sunset. 18th |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | bcm | coc | 24 | 37 | – | – | 1.2 |
| | Bournemouth | b | bf | 28 | 40 | – | – | 6.5 |
| | Ventnor ... | xbobz | bbcz | 35 | 43 | – | – | 4.4 |
| | Southsea ... | b | bbcm | 31 | 41 | – | – | 4.9 |
| | Bognor Regis | b | bbc | 31 | 41 | – | – | 4.0 |
| | Littlehampton | bbc | bc | 31 | 38 | – | – | 5.0 |
| | Worthing ... | b | b | 31 | 40 | – | – | 6.2 |
| | Brighton ... | b | bm | 31 | 44 | – | – | 5.7 |
| | Eastbourne† | bcc | co | 32 | 42 | – | – | 1.5 |
| | Hastings† ... | rvc | co | 33 | 41 | Trace | – | 0.2 |
| | Folkestone ... | rcbcc | co | 36 | 41 | 3 | – | 1.0 |
| | Dover... ... | bccp | com | 38 | 41 | 3 | Trace | 1.8 |
| | Deal ... ... | co | co | 35 | 42 | 2 | – | 0.3 |
| | Ramsgate ... | c | cdc | 38 | 40 | 2 | 0.4 | 0.2 |
| | Margate ... | c | cd | 39 | 42 | 1 | Trace | 0.0 |
| 2 | Southend ... | cf | ofc | 33 | 38 | Trace | Trace | 0.1 |
| | Maldon ... | xcb | c | 31 | 41 | – | – | 1.5 |
| | Clacton-on-Sea | c | c | 34 | 41 | – | – | 0.2 |
| | Dovercourt ... | xbcm | bc | 34 | 41 | – | – | 0.3 |
| | Lowestoft ... | c | c | 33 | 39 | – | – | 0.1 |
| | Skegness ... | omo | omo | 34 | 40 | 0.5 | – | 0.0 |
| | Mablethorpe | cmo | cm | 34 | 40 | 0.3 | – | 1.5 |
| | Cleethorpes ... | xcfm | mc | 33 | 40 | 0.2 | – | 0.9 |
| 3 | Leamington S. | ff | ff | 24 | 30 | – | – | 0.0 |
| 4 | Cheltenham† | cfx | cfxf | 22 | 35 | – | – | 0.0 |
| 5 | Bath ... ... | fmb | bm | 23 | 32 | – | – | 3.6 |
| | Weymouth ... | b | b | 32 | 42 | – | – | 7.2 |
| | Jersey ... | bcfbc | bcc | 42 | 47 | – | – | 3.3 |
| | Torquay ... | cm | b | 35 | 45 | – | – | 4.5 |
| | Penzance ... | bc | cbcm | 39 | 48 | – | – | 3.2 |
| | St. Ives ... | b | b | 40 | 48 | – | – | 1.8 |
| | Bude ... ... | xbcb | b | 29 | 40 | – | – | 5.2 |
| | Ilfracombe ... | b | b | 34 | 42 | – | – | 6.3 |
| 6 | Aberystwyth | cbbx | bbc | 31 | 44 | – | – | 6.0 |
| 7 | Llandudno ... | c | bcbzo | 33 | 42 | – | – | 2.2 |
| | Colwyn Bay... | ocbc | bcbbc | 32 | 43 | – | – | 2.1 |
| | Rhyl ... ... | xcbc | bcb | 29 | 41 | – | – | 1.8 |
| 8 | Wallasey ... | fbc | bcbf | 31 | 41 | – | – | 4.0 |
| | Southport‖ ... | mbc | ccm | 27 | 36 | – | – | 0.5 |
| | Blackpool ... | bmx | ccm | 29 | 37 | – | – | 0.5 |
| | Morecambe ... | xcb | bbc | 32 | 41 | – | – | 3.1 |
| 9 | Ilkley... ... | xmc | cbc | 22 | 35 | – | – | 0.0 |
| 10 | Berwick-on T. | c | bc | 31 | 39 | Trace | – | 1.2 |
| 11 | Dunbar ... | bcmx | cmx | 31 | 40 | – | – | 0.1 |
| 12 | Douglas ... | c | c | 42 | 45 | – | – | 0.0 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

# AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 1/8 clouded. ◕ Sky 1/8 to 7/8 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 19th Dec. 1931. |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands<br>4. W. Midlands | Light variable or west to southwest wind; fog at many places; but otherwise fair; cold, frost at night. |
| 5. S.W. England<br>6. South Wales<br>7. North Wales | Light or moderate southerly wind; fair; local fog; rather cold, frost locally at night. |
| 8. N.W. England<br>9. N. Midlands<br>10. N.E. England | Light or moderate southwest wind; mainly cloudy, some mist or fog; rather cold, frost locally at night. |
| 11. S.E. Scotland<br>12. S.W. Scotland & Isle of Man | Light or moderate south or southwest wind; cloudy, local drizzle at first but improving; moderate temperature. |
| 13. A. W. Scotld. B. N.W. Scotland.<br>14. Mid-Scotland<br>15. N.E. Scotland<br>16. Orkneys and Shetlands. | Freshening south or southwest wind; cloudy, occasional rain or drizz;e becoming milder. |
| 17. N.W. Ireland | Moderate southerly wind; cloudy, local drizzle; mild. |
| 18. N.E. Ireland<br>19. S.E. Ireland | Light or moderate southerly wind; cloudy; moderate temperature. |
| 20. S.W. Ireland | As 17. |

### GENERAL INFERENCE.

A large anticyclone centred over Southeast England, North France and South Germany, is moving slightly southward and a depression northwest of Iceland is moving northeast. Weather will be quiet and mainly fair, but there will be local fog in England, especially the Southeast and Midlands, and local rain or drizzle in West Ireland and Scotland.

### FURTHER OUTLOOK.

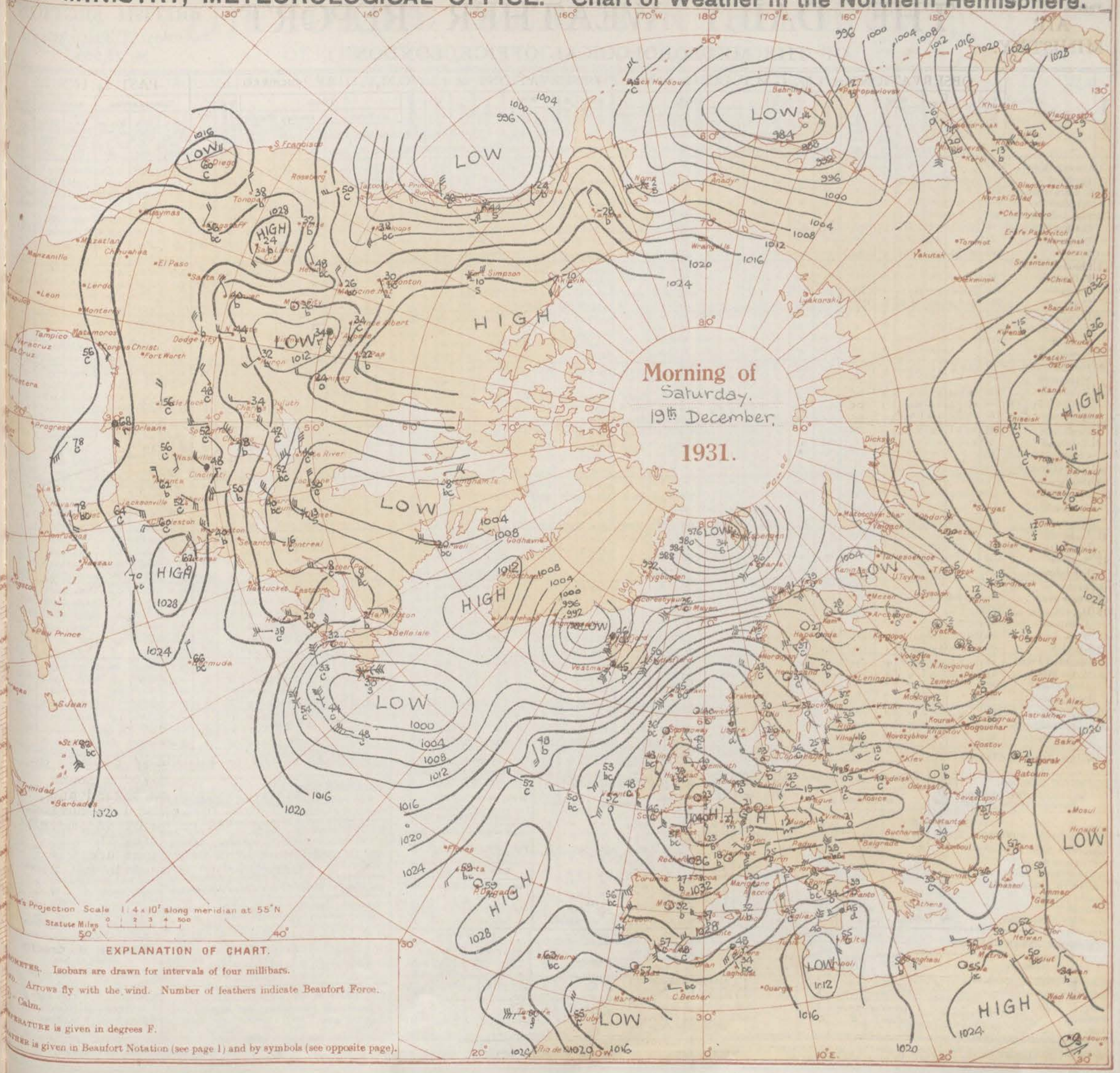
Probably less cold and less foggy in England; mainly dry except in the extreme Northwest.

Forecasts issued at 1015 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.




## EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

0 = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 19th December 1931.

No. 25,594

### OBSERVATIONS at 1 hr. G.M.T. 19th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1040·1 | +4 | SE'S | 1 | F | 27 | 95 | 0 | 5 | – | – | 10 | 10 | <150 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot, (S'thmtn) | 8 | 1039·3 | +2 | N | 1 | bc | 32 | 85 | 5 | 5 | – | – | 4-6 | 4-6 | 4000 |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1039·9 | +6 | NNW | 3 | bc | 32 | 85 | 5 | – | – | 8 | 0 | 2-3 | – |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1039·2 | +2 | NW'W | 2 | bc | 34 | 85 | 5 | 5 | – | – | 4-6 | 4-6 | 1500 |
| | Cranwell | 240 | 1039·4 | 0 | W'S | 2 | bf | 29 | 95 | 3 | – | – | 1 | 0 | 1 | – |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1038·6 | +2 | SSW | 2 | c | 44 | 65 | 7 | 4 | 7 | – | 7-8 | 10 | 2500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1038·0 | +6 | E | 2 | bc | 45 | 75 | 6 | 5 | 1 | – | 4-6 | 4-6 | 4000 |
| | Scilly (St. Mary's) | 163 | 1037·4 | -4 | SE'S | 3 | bc | 44 | 85 | 7 | 8 | 3 | – | 2-3 | 4-6 | 4000 |
| | Guernsey | 175 | 1038·6 | +4 | SE | 3 | bc | 41 | 65 | 9 | 5 | 6 | – | 4-6 | 4-6 | 4000 |
| 6 | Pembroke | 142 | 1037·1 | 0 | ENE | 3 | c | 40 | 95 | 5 | 4 | 7 | – | 4-6 | 7-8 | 4000 |
| 7 | Holyhead | 26 | 1037·7 | -6 | SE'S | 3 | c | 41 | 95 | 6 | 5 | – | – | 10 | 10 | 5700 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1038·5 | 0 | W'S | 2 | c | 37 | 85 | 4 | 5 | 3 | – | 7-8 | 10 | 800 |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1037·0 | 0 | W | 2 | 0 | 38 | 85 | 7 | 5 | – | – | 10 | 10 | 1500 |
| 11 | Inchkeith | 190 | 1035·6 | +4 | SW | 3 | 0 | 43 | 95 | 7 | 5 | – | – | 10 | 10 | 2500 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1035·0 | +4 | – | 0 | b | 36 | 95 | 7 | – | – | – | 0 | 0 | – |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1034·5 | +14 | WSW | 2 | bc | 39 | 95 | 8 | 5 | 1 | 3 | 2-3 | 4-6 | 2500 |
| 16 | Lerwick | 54 | 1032·4 | +8 | W'N | 1 | bc | 43 | 85 | 8 | – | – | – | 0 | 2-3 | – |
| 17 | Blacksod Point | 18 | 1033·2 | -2 | SE | 4 | ir | 48 | 95 | 7 | 8 | – | – | 7-8 | 7-8 | 220 |
| 18 | Malin Head | 52 | 1035·0 | 0 | S | 2 | bc | 45 | 95 | 7 | 5 | 5 | – | 2-3 | 4-6 | 2500 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1034·5 | 0 | S | 3 | ro | 49 | 95 | 8 | 6 | – | – | 10 | 10 | 800 |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 19th December

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1040·2 | -4 | – | 0 | F | 27 | 95 | 1 | 5 | – | – | 10 | 10 | <150 | 4 | * |
| Croydon | 1040·2 | -4 | – | 0 | bF | 23 | 95 | 1 | – | – | – | 0 | 0 | – | 1 | * |
| S. Farnborough | 1040·2 | 0 | ENE | 1 | cF | 26 | 95 | 3 | 5 | – | – | 7-8 | 7-8 | 4000 | 4 | * |
| Winchester | 1039·5 | -6 | N | 1 | bc | 26 | 95 | 4 | 5 | – | – | 4-6 | 4-6 | 4000 | 4 | * |
| Boscombe Down | 1039·4 | -6 | – | 0 | bc | 27 | 95 | 5 | 5 | – | – | 2-3 | 2-3 | 2500 | 5 | * |
| Calshot, (S'thmtn) | 1039·4 | -2 | NNW | 1 | bc | 33 | 95 | 5 | 5 | – | – | 2-3 | 2-3 | 4000 | 4 | 0 |
| Dungeness | * | * | NW | 1 | bcF | * | * | 1 | – | 1 | * | 0 | 2-3 | – | * | 0 |
| Lympne | 1039·7 | -2 | NW | 3 | bc | 30 | 95 | 5 | – | – | 8 | 0 | 2-3 | – | 1 | * |
| Shoeburyness | 1039·8 | 0 | SW | 0 | F | 27 | 95 | 0 | 5 | – | – | 10 | 10 | <150 | 0 | * |
| Felixstowe | 1039·4 | -2 | NW | 1 | bcF | 32 | 95 | 3 | – | – | 1 | 0 | 2-3 | – | 0 | 0 |
| Gorleston | 1038·0 | -4 | W'N | 2 | bc | 31 | 95 | 4 | – | 3 | – | 0 | 4-6 | – | 0 | 1 |
| Cranwell | 1038·9 | -6 | WSW | 2 | b | 31 | 95 | 4 | – | 3 | – | 0 | Tr. | – | 4 | * |
| Birmingham | 1039·6 | 0 | W | 1 | bc | 30 | 95 | 6 | – | – | 4 | 0 | 2-3 | – | 1 | * |
| Upper Heyford | 1039·6 | -8 | – | 0 | iF | 22 | 95 | 4 | 5 | 3 | – | 2-3 | 4-6 | 5700 | 4 | * |
| Leafield | 1038·9 | -12 | WSW | 2 | c | 29 | 95 | 7 | 5 | – | – | 7-8 | 7-8 | 4000 | 4 | * |
| Ross-on-Wye | 1039·1 | 0 | – | 0 | F | 23 | 95 | 0 | 5 | – | – | 10 | 10 | <150 | 4 | * |
| Portland Bill | 1038·6 | 0 | SSW | 3 | c | 45 | 65 | 7 | 4 | 7 | – | 7-8 | 7-8 | 2500 | 0 | 3 |
| Plymouth | 1038·9 | 0 | – | 0 | c | 35 | 95 | 6 | 5 | – | – | 7-8 | 7-8 | 1500 | 0 | 0 |
| Falmouth | 1038·3 | +2 | NW'W | 1 | c | 43 | 85 | 8 | 5 | 2 | – | 7-8 | 10 | 4000 | 0 | 1 |
| Scilly (St. Mary's) | 1037·8 | 0 | SSE | 4 | c | 46 | 85 | 7 | 8 | 3 | – | 7-8 | 7-8 | 4000 | 0 | 1 |
| Guernsey | 1039·3 | 0 | S'E | 2 | bc | 38 | 55 | 9 | 7 | – | – | 4-6 | 4-6 | 4000 | 0 | 2 |
| Pembroke | 1037·3 | 0 | E'S | 3 | c | 44 | 95 | 7 | 4 | 6 | – | 7-8 | 10 | 4000 | 0 | 3 |
| Holyhead | 1038·0 | 0 | SSE | 2 | bc | 39 | 95 | 6 | 5 | 3 | – | 2-3 | 4-6 | 5700 | 1 | 0 |
| Chester (Sealand) | 1039·1 | -4 | SE'S | 2 | c | 30 | 95 | 6 | 5 | – | – | 9 | 9 | 4000 | 4 | * |
| L'pool (Bidston) | 1038·9 | 0 | ESE | 2 | 0 | 34 | 85 | 4 | 5 | – | – | 10 | 10 | 800 | 4 | * |
| Harrogate | 1037·9 | 0 | SW | 3 | b | 35 | 85 | 7 | – | 4 | – | 0 | Tr. | – | 4 | * |
| Spurn Head | 1037·6 | 0 | – | 4 | bcF | 36 | 85 | 3 | 5 | – | – | 4-6 | 4-6 | 800 | 0 | 52 |
| Catterick | 1037·4 | -4 | – | 0 | bcF | 31 | 95 | 3 | 5 | 3 | – | 4-6 | 9 | 2500 | 4 | * |
| Tynemouth | 1036·8 | 0 | W | 2 | 0 | 40 | 85 | 6 | 6 | – | – | 10 | 10 | 1500 | 1 | 2 |
| Inchkeith | 1035·6 | 0 | WSW | 3 | ro | 43 | 95 | 7 | 5 | 2 | – | 4-6 | 9+ | 2500 | 1 | 1 |
| Leuchars | 1035·5 | 0 | SW | 1 | dd | 43 | 95 | 5 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| Renfrew | 1036·0 | 0 | S | 2 | ro | 44 | 95 | 7 | 6 | 2 | – | 9 | 10 | 1500 | 1 | * |
| Eskdalemuir | 1037·4 | 0 | SSW | 3 | do | 39 | 95 | 4 | 5 | – | – | 10 | 10 | <150 | 1 | * |
| Tiree | 1033·8 | -8 | S'E | 3 | c/r | 44 | 95 | 6 | 5 | 7 | 8 | 4-6 | 7-8 | 2500 | 1 | 2 |
| Stornoway | 1033·2 | -8 | – | 0 | bc | 36 | 95 | 8 | 8 | – | – | 4-6 | 4-6 | 4000 | 1 | 0 |
| Dalwhinnie | 1036·4 | +2 | – | 0 | bc | 35 | 95 | 7 | 4 | 4 | – | 2-3 | 4-6 | 800 | 1 | * |
| Aberdeen | 1035·3 | -2 | NW | 2 | c | 43 | 95 | 6 | 5 | – | – | 9 | 9 | 2500 | 1 | 1 |
| Wick | 1034·6 | 0 | W | 1 | bc | 33 | 95 | 8 | 5 | – | – | 2-3 | 2-3 | 2500 | 1 | 2 |
| Lerwick | 1034·6 | +6 | – | 0 | b | 40 | 95 | 7 | 5 | – | – | 1 | 1 | 800 | 1 | * |
| Blacksod Point | 1031·7 | -6 | SSE | 4 | rr | 49 | 95 | 7 | 6 | – | – | 10 | 10 | <150 | 1 | 4 |
| Malin Head | 1034·0 | -6 | S | 2 | bc | 43 | 95 | 7 | 5 | – | – | 2-3 | 2-3 | 2500 | 0 | 2 |
| Aldergrove | 1036·6 | -2 | S'E | 2 | c | 42 | 85 | 6 | 5 | – | – | 7-8 | 7-8 | 1500 | 1 | * |
| Donaghadee | 1036·1 | 0 | W | 1 | bc | 44 | 95 | 7 | 5 | 2 | – | 4-6 | 4-6 | 2500 | 1 | 0 |
| Birr Castle | 1035·0 | -2 | S | 1 | c | 44 | 95 | 7 | 5 | – | – | 9+ | 9+ | 2500 | 1 | * |
| Valentia Obsy.† | 1034·7 | +4 | S'E | 3 | c | 48 | 95 | 8 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| Roches Point | 1036·5 | +4 | SW | 3 | c | 49 | 75 | 8 | 5 | – | – | 9 | 9 | 2500 | 0 | 3 |

### PAST 24 HOURS.

| Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F (32) | Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 18th Hrs. (36) |
|---|---|---|---|---|---|---|
| London (Kew) | 33 | 26 | 26 | – | – | 0·0 |
| Croydon | 32 | 21 | 19 | 0·1 | Tr. | 0·0 |
| S. Farnborough | 31 | 22 | 14 | 0·1 | Tr. | 0·0 |
| Winchester | 31 | 22 | 17 | – | – | 0·0 |
| Boscombe Down | 37 | 23 | 18 | Tr. | Tr. | * |
| Calshot, (S'thmtn) | 41 | 28 | 19 | – | – | 5·2 |
| Dungeness | 42 | 29 | * | – | – | * |
| Lympne | 40 | 29 | 21 | 0·1 | – | 0·0 |
| Shoeburyness | 39 | 25 | 27 | – | – | 0·1 |
| Felixstowe | 41 | 29 | 20 | Tr. | – | 0·2 |
| Gorleston | 42 | 30 | 28 | – | – | 0·0 |
| Cranwell | 37 | 28 | 23 | – | – | 0·3 |
| Birmingham | 38 | 29 | 15 | – | – | 0·1 |
| Upper Heyford | 39 | 21 | 16 | 0·3 | – | * |
| Leafield | 38 | 23 | 14 | – | – | 5·3 |
| Ross-on-Wye | 27 | 21 | 19 | – | – | 0·4 |
| Portland Bill | 43 | 41 | * | – | – | * |
| Plymouth | 43 | 33 | 30 | – | – | 4·8 |
| Falmouth | 46 | 39 | * | – | – | 2·1 |
| Scilly (St. Mary's) | 48 | 43 | * | – | – | 0·0 |
| Guernsey | 46 | 38 | 27 | – | – | 3·1 |
| Pembroke | 44 | 41 | * | – | – | 3·9 |
| Holyhead | 43 | 39 | 33 | – | – | 2·9 |
| Chester (Sealand) | 35 | 26 | 20 | Tr. | Tr. | 4·7 |
| L'pool (Bidston) | 38 | 32 | 31 | – | – | 5·2 |
| Harrogate | 37 | 32 | 27 | – | – | 0·0 |
| Spurn Head | 40 | 36 | * | Tr. | – | 0·5 |
| Catterick | 35 | 25 | 19 | – | – | * |
| Tynemouth | 39 | 35 | 30 | – | – | * |
| Inchkeith | 43 | 42 | 41 | – | 1 | 0·0 |
| Leuchars | 42 | 41 | 39 | Tr. | 2 | 2·7 |
| Renfrew | 45 | 43 | 41 | Tr. | 2 | 0·0 |
| Eskdalemuir | 35 | 33 | 33 | – | 1 | 0·0 |
| Tiree | 43 | 35 | 25 | 34 | 0·1 | 0·0 |
| Stornoway | 50 | 33 | * | 2 | 0·2 | 0·0 |
| Dalwhinnie | 38 | 32 | 31 | Tr. | Tr. | 2·2 |
| Aberdeen | 45 | 40 | 37 | 0·5 | 0·5 | * |
| Wick | 46 | 32 | * | Tr. | 0·2 | 0·0 |
| Lerwick | 48 | 38 | * | 1 | 0·3 | * |
| Blacksod Point | 51 | 46 | * | 4 | 2 | 0·0 |
| Malin Head | 48 | 43 | * | 1 | 0·2 | 0·1 |
| Aldergrove | 46 | 41 | 38 | Tr. | 1 | * |
| Donaghadee | 48 | 43 | * | 0·1 | 0·3 | 1·0 |
| Birr Castle | 47 | 42 | 38 | – | – | 0·0 |
| Valentia Obsy.† | 50 | 47 | 46 | 1 | 0·6 | * |
| Roches Point | 50 | 47 | * | 1 | 0·1 | |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon | Weather Night | Temperature Day Max. °F. | Temperature Night Min. °F. | Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KEW | 18 | oF | oF | oFx | 33 | 26 | 26 | – | – | 0·0 | * | * | 2 |
| CROYDON | 217 | offx | offex | offex | 32 | 21 | 19 | 0·1 | Tr. | 0·0 | * | * | 2 |
| GREENWICH (Royal Observatory) | 149 | FF | FF | FFcFF | 33 | 26 | 26 | Tr. | Tr. | 0·0 | 97 | 95 | 2 |
| CITY (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0·0 | * | * | * |
| WESTMINSTER (St. James' Park) | 27 | * | * | * | 35 | 27 | 28 | – | – | 0·0 | 96 | 95 | * |
| REGENTS PK. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | 0·0 | * | * | * |
| CAMDEN SQUARE | 110 | xF | F | * | 33 | 27 | 28 | – | – | * | * | 96 | * |
| KENSINGTON | 80 | of | of | * | 34 | 26 | 23 | – | – | 0·0 | At 18h. 96 | 93 | * |
| HAMPSTEAD OBSERVATORY | 450 | ofbc | ofx | * | 35 | 21 | 15 | 0·1 | – | 0·0 | * | 98 | * |

### Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 19th

| SOUTH KENSINGTON. Max. | Time. | Min. | Time. |
|---|---|---|---|
| 3·2 | 11h. 18th | 0·3 | 3-6h. 19th |

| KEW OBSERVATORY. Max. | Time. | Min. | Time. |
|---|---|---|---|
| 1·3 | 10h. 18th | 0·3 | 6hr. 19th |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 18th December: Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 19th December: Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours: Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARIS | 1038·2 | N | 4 | c | 32 | 1040·9 | NNE | 1 | 0 | 27 | 36 | 25 | – | – |
| BRUSSELS | 1039·1 | NE | 2 | c | 27 | 1039·8 | SW | 2 | 0 | 30 | 30 | 27 | – | Tr |
| BERLIN | 1034·6 | NNW | 2 | c | 28 | 1035·3 | SW'S | 2 | c/s | 23 | 30 | · | – | Tr. |
| ZÜRICH | 1033·5 | E | 2 | c | 21 | 1036·4 | E | 1 | c | 19 | 28 | 18 | 0·3 | Tr. |
| ROME | | | | | | 1023·0 | ENE | 5 | bc | 30 | · | · | · | · |

## EXPLANATION OF FIGURES & LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13–18 | 9 | 47–54 |
| 1 | 1–3 | 5 | 19–24 | 10 | 55–63 |
| 2 | 4–7 | 6 | 25–31 | 11 | 64–75 |
| 3 | 8–12 | 7 | 32–38 | 12 | 75 |
| | | 8 | 39–46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | Objects not visible at |
|---|---|
| 0 Dense fog | 55 yards. |
| 1 Thick fog | 220 " |
| 2 Fog | 550 " |
| 3 Moderate fog | 1,100 " |
| 4 Mist or haze | 1½ miles. |
| 5 Poor visibility | 2½ " |
| 6 Moderate " | 6½ " |
| 7 Good " | 12½ " |
| 8 Very good " | 31 " |
| 9 Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

0 Calm. 1 Smooth. 2 Slight. 3 Moderate. 4 Rough. 5 Very rough. 6 High. 7 Very high. 8 Precipitous. 9 Confused.

TERMS OF SUBSCRIPTION. Single Copies, 1d. each; by post 1½d. 2/6 per month; 6/8 per quarter; 26/- per year.

METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 20th December, 1931.

No. 25,595.

### OBSERVATIONS at 13h. G.M.T. 19th December

| District | Stations. (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0-12 (4) | Weather. (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud. Form. Low. (9) | Form. Med. (10) | Form. High (11) | Amount. Low 0-10 (12) | Amount. Total 0-10 (13) | Height of Base. (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1038.8 | -10 | - | 0 | f | 33 | 95 | 2 | 5 | - | - | 9 | 9 | 4000 |
| | Croydon | 1039.2 | -10 | - | 0 | F | 34 | 95 | 1 | 5 | - | - | 9+ | 9+ | 4000 |
| | S. Farnborough | 1038.7 | -14 | SW | 1 | f | 33 | 95 | 2 | 5 | - | - | 7.8 | 7.8 | 2500 |
| | Winchester | 1038.9 | -12 | WSW | 2 | bc | 40 | 85 | 6 | 5 | - | - | 4.6 | 4.6 | 2500 |
| | Boscombe Down | 1039.6 | -6 | W | 1 | b | 38 | 85 | 5 | - | 1 | 8 | 0 | 1 | - |
| | Calshot, S'thmtn | 1039.4 | -4 | W | 2 | m | 41 | 85 | 4 | 5 | - | - | 4.6 | 4.6 | 2500 |
| | Dungeness | * | * | NW'W | 13 | c | * | * | 5 | 8 | - | * | 7.8 | 7.8 | 2500 |
| | Lympne | 1039.2 | -12 | WNW | 2 | c | 38 | 65 | 6 | 5 | - | - | 9 | 9 | 4000 |
| 2 | Shoeburyness | 1039.4 | -10 | - | 0 | f | 34 | 95 | 3 | 5 | - | - | 9+ | 9+ | 4000 |
| | Felixstowe | 1039.5 | -2 | WNW | 2 | b | 36 | 85 | 5 | 5 | - | - | 1 | 1 | 4000 |
| | Gorleston | 1038.2 | -4 | WNW | 2 | m | 34 | 95 | 4 | 4 | - | - | 9 | 9 | 2500 |
| | Cranwell | 1038.7 | -2 | W'S | 2 | f | 36 | 85 | 3 | - | - | - | 0 | 0 | - |
| 3 | Birmingham | 1038.8 | -2 | - | 0 | F | 34 | 85 | 1 | 5 | - | - | 4.6 | 4.6 | 1500 |
| | Upper Heyford | 1039.5 | -8 | WSW | 2 | m | 35 | 95 | 4 | - | - | 5 | 0 | 1 | - |
| | Leafield | 1038.3 | -6 | W | 2 | b | 36 | 65 | 6 | - | - | 1 | 0 | 1 | - |
| 4 | Ross-on-Wye | 1039.2 | 0 | NW | 1 | F | 26 | 95 | 1 | - | - | - | 10 | 10 | <150 |
| 5 | Portland Bill | 1039.1 | +4 | SW | 4 | c | 45 | 55 | 8 | 4 | 4 | - | 7.8 | 10 | 2500 |
| | Plymouth | 1040.7 | -2 | SW | 3 | c | 45 | 75 | 7 | 5 | - | - | 9+ | 9+ | 800 |
| | Falmouth | 1039.5 | -2 | SW'S | 3 | c | 45 | 75 | 8 | 2 | 8 | - | 4.6 | 7.8 | 4000 |
| | Scilly (St. Mary's) | 1038.5 | +2 | S'E | 4 | bc | 48 | 75 | 8 | 7 | - | - | 2.3 | 2.3 | 4000 |
| | Guernsey | 1040.0 | +2 | S'W | 2 | bc | 44 | 45 | 9 | 7 | 4 | - | 4.6 | 4.6 | 4000 |
| 6 | Pembroke | 1038.3 | 0 | ESE | 1 | d.d. | 44 | 95 | 4 | 3 | 9 | - | 7.8 | 10 | 2500 |
| 7 | Holyhead | 1037.4 | -6 | S | 3 | c | 47 | 85 | 6 | 5 | 3 | - | 4.6 | 9 | 7200 |
| | Chester (Sealand) | 1039.0 | -2 | - | 0 | m | 35 | 75 | 4 | 5 | - | - | 2.3 | 2.3 | 7200 |
| 8 | L'pool (Bidston) | 1038.4 | 0 | SE'E | 1 | f | 38 | 85 | 3 | - | 4 | - | 0 | 2.3 | - |
| 9 | Harrogate | 1037.8 | 0 | SW'W | 2 | c | 39 | 85 | 5 | 5 | - | - | 9+ | 9+ | 7200 |
| 10 | Spurn Head | 1037.1 | 0 | NW'W | 4 | c | 40 | 95 | 5 | 5 | 3 | - | 4.6 | 9+ | 800 |
| | Catterick | 1037.8 | -6 | - | 0 | f | 34 | 95 | 3 | 5 | - | - | 9+ | 9+ | 5700 |
| | Tynemouth | 1037.4 | +4 | W | 2 | o | 43 | 85 | 5 | 6 | - | - | 10 | 10 | 1500 |
| 11 | Inchkeith | 1038.9 | -2 | WSW | 2 | c | 44 | 95 | 6 | 5 | 3 | - | 7.8 | 9+ | 1500 |
| | Leuchars | 1038.4 | -2 | SW | 3 | c | 45 | 95 | 5 | 5 | - | - | 9+ | 9+ | 1500 |
| 12 | Renfrew | 1036.0 | -4 | SW'S | 2 | c | 46 | 95 | 5 | 6 | 7 | - | 9+ | 9+ | 1500 |
| | Eskdalemuir | 1037.0 | -4 | SW | 3 | o | 40 | 95 | 5 | 5 | - | - | 10 | 10 | 220 |
| 13A | Tiree | 1032.8 | -6 | S | 5 | rr | 46 | 95 | 6 | 6 | 2 | - | 9+ | 10 | 1500 |
| 13B | Stornoway | 1031.6 | -12 | S | 4 | c1pr | 47 | 95 | 8 | 8 | 7 | - | 7.8 | 9+ | 2500 |
| 15 | Dalwhinnie | 1035.5 | -2 | SW | 2 | c | 42 | 95 | 7 | 4 | 2 | - | 7.8 | 10 | 1500 |
| | Aberdeen | 1036.0 | -2 | - | 0 | m | 44 | 95 | 4 | 5 | - | - | 10 | 10 | 450 |
| | Wick | 1034.0 | -6 | S | 3 | c | 45 | 95 | 8 | 8 | 7 | 8 | 7.8 | 9+ | 2500 |
| 16 | Lerwick | 1033.9 | -4 | - | 0 | bc | 41 | 85 | 7 | 5 | - | - | 4.6 | 4.6 | 1500 |
| 17 | Blacksod Point | 1032.6 | +6 | S | 5 | q | 51 | 95 | 7 | 5 | - | - | 10 | 10 | <150 |
| 18 | Malin Head | 1033.4 | -2 | S | 4 | c1r | 45 | 95 | 7 | 6 | - | - | 9 | 9 | 1500 |
| | Aldergrove | 1035.9 | -6 | S'W | 3 | c | 45 | 85 | 6 | 5 | 3 | - | 7.8 | 7.8 | 2500 |
| | Donaghadee | 1036.0 | -2 | SW | 2 | bc | 48 | 85 | 7 | 5 | 3 | - | 2.3 | 4.6 | 2500 |
| 19 | Birr Castle | 1036.4 | +4 | S | 1 | ir. | 47 | 95 | 7 | 6 | - | - | 10 | 10 | 2500 |
| 20 | Valentia Obsy. | 1035.6 | 0 | S'E | 3 | c | 49 | 85 | 8 | 5 | - | - | 9+ | 9+ | 1500 |
| | Roches Point | 1037.4 | +4 | SW | 3 | c | 49 | 85 | 8 | 5 | - | - | 7.8 | 7.8 | 2500 |

### OBSERVATIONS at 18h. G.M.T. 19th December

| District | Stations. | Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind. Direc. (17) | Wind. Force 0-12 (18) | Weather. (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud. Form. Low. (23) | Form. Med. (24) | Form. High. (25) | Amount. Low. 0-10 (26) | Amount. Total 0-10 (27) | Height of Base (feet) (28) | State of Ground. 0-9 (29) | Sea. 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1039.5 | +6 | - | 0 | F | 32 | 95 | 1 | | | | 10 | 10 | <150 | 1 | * |
| | Croydon | 1039.2 | +6 | W'N | 1 | f | 33 | 95 | 3 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| | S. Farnborough | 1039.7 | +6 | NNW | 1 | f | 27 | 95 | 2 | - | - | - | 0 | 0 | - | 4 | * |
| | Winchester | 1039.5 | +4 | NW | 2 | b | 29 | 95 | 5 | - | - | - | 0 | 0 | - | 4 | * |
| | Boscombe Down | 1039.7 | 0 | NNW | 2 | b | 33 | 95 | 5 | - | - | 8 | 0 | 1 | - | 1 | * |
| | Calshot, S'thmtn | 1039.4 | +4 | WNW | 2 | c | 38 | 95 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 0 | 0 |
| | Dungeness | * | * | W | 1 | c | * | * | 5 | 8 | 2 | * | 7.8 | 9 | 2500 | * | 0 |
| | Lympne | 1038.3 | -4 | NW'W | 2 | o | 37 | 75 | 5 | 5 | - | - | 10 | 10 | 4000 | 1 | * |
| 2 | Shoeburyness | 1038.9 | 0 | NW | 1 | f | 34 | 95 | 3 | 5 | - | - | 9+ | 9+ | 4000 | 1 | * |
| | Felixstowe | 1038.5 | -2 | NW | 1 | m | 35 | 85 | 4 | - | 3 | - | 0 | 4.6 | - | 0 | 0 |
| | Gorleston | 1037.9 | 0 | WNW | 2 | c | 33 | 95 | 6 | 5 | 3 | - | 4.6 | 9 | 1500 | 0 | 1 |
| | Cranwell | 1038.8 | +6 | WSW | 2 | f | 32 | 85 | 3 | 5 | - | - | 9 | 9 | 7200 | 4 | * |
| 3 | Birmingham | 1039.6 | +4 | - | 0 | f | 31 | 95 | 2 | 1 | - | - | 4.6 | 4.6 | 1500 | 1 | * |
| | Upper Heyford | 1040.2 | +8 | N | 1 | m | 29 | 95 | 4 | - | - | - | 0 | 0 | - | 4 | * |
| | Leafield | 1039.8 | +6 | NW'N | 1 | b | 28 | 95 | 5 | - | - | - | 0 | 0 | - | 4 | * |
| 4 | Ross-on-Wye | 1039.5 | 0 | - | 0 | F | 24 | 95 | 0 | - | - | - | 10 | 10 | <150 | 4 | * |
| 5 | Portland Bill | 1039.1 | +2 | W | 3 | c | 46 | 75 | 8 | 4 | 4 | 9 | 4.6 | 7.8 | 2500 | 0 | 3 |
| | Plymouth | 1038.9 | 0 | W'S | 3 | c | 44 | 65 | 6 | 5 | 3 | - | 4.6 | 7.8 | 4000 | 0 | 2 |
| | Falmouth | 1040.2 | 0 | SW | 3 | bc | 42 | 85 | 8 | 2 | - | - | 4.6 | 4.6 | 4000 | 0 | 1 |
| | Scilly (St. Mary's) | 1039.7 | +6 | SSE | 4 | c | 44 | 75 | 8 | 7 | - | - | 9 | 9 | 4000 | 0 | 2 |
| | Guernsey | 1040.0 | +10 | - | 0 | o | 41 | 65 | 9 | 5 | - | - | 10 | 10 | 4000 | 0 | 1 |
| 6 | Pembroke | 1037.0 | 0 | ENE | 2 | m | 44 | 95 | 4 | 5 | 6 | - | 7.8 | 10 | 2500 | 1 | 1 |
| 7 | Holyhead | 1038.0 | +6 | S | 2 | c | 45 | 95 | 6 | - | 3 | - | 0 | 9+ | - | 1 | 0 |
| | Chester (Sealand) | 1039.1 | +6 | SE'E | 2 | f | 32 | 95 | 3 | 5 | - | - | 9+ | 9+ | 7200 | 4 | * |
| 8 | L'pool (Bidston) | 1038.8 | +2 | SE | 2 | m | 36 | 85 | 4 | 5 | - | - | 9+ | 9+ | 1500 | 0 | * |
| 9 | Harrogate | 1038.3 | 0 | WSW | 2 | c | 37 | 95 | 5 | 5 | - | - | 9+ | 9+ | 7200 | 1 | * |
| 10 | Spurn Head | 1037.3 | 0 | NW'W | 3 | f | 39 | 95 | 3 | 5 | 3 | - | 7.8 | 10 | 800 | 0 | 2 |
| | Catterick | 1038.4 | +10 | - | 0 | f | 34 | 95 | 3 | 5 | - | - | 9+ | 9+ | 5700 | 0 | * |
| | Tynemouth | 1038.0 | +6 | W | 2 | o | 42 | 85 | 5 | 6 | - | - | 10 | 10 | 1500 | 0 | 1 |
| 11 | Inchkeith | 1038.9 | +2 | SW | 2 | bc | 44 | 95 | 7 | 5 | 8 | - | 2.3 | 4.6 | 1500 | 0 | 1 |
| | Leuchars | 1038.7 | +2 | SW | 2 | m | 39 | 95 | 4 | - | 3 | - | 0 | Tr | - | 1 | * |
| 12 | Renfrew | 1036.1 | +6 | SW | 2 | c | 44 | 95 | 6 | 5 | 3 | - | 4.6 | 7.8 | 2500 | 1 | * |
| | Eskdalemuir | 1037.9 | +10 | SW'S | 2 | o | 39 | 95 | 5 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| 13A | Tiree | 1033.2 | +12 | SSW | 3 | ir. | 49 | 95 | 6 | 6 | 1 | - | 9 | 10 | 1500 | 1 | 3 |
| 13B | Stornoway | 1031.4 | +2 | S | 3 | c | 48 | 95 | 6 | 9 | 1 | - | 7.8 | 10 | 1500 | 2 | 2 |
| 15 | Dalwhinnie | 1035.2 | -4 | S | 1 | bc | 40 | 85 | 7 | 4 | 8 | - | 2.3 | 4.6 | 1500 | 0 | * |
| | Aberdeen | 1035.1 | +2 | NW | 1 | f | 37 | 95 | 2 | - | - | - | 0 | 0 | - | 1 | 0 |
| | Wick | 1033.4 | 0 | SSW | 2 | bc | 42 | 95 | 8 | 5 | 7 | - | 2.3 | 4.6 | 2500 | 1 | 2 |
| 16 | Lerwick | 1033.5 | -2 | - | 0 | c | 42 | 85 | 7 | 5 | 3 | - | 4.6 | 7.8 | 1500 | | * |
| 17 | Blacksod Point | 1034.2 | +6 | S | 3 | ir | 51 | 95 | 7 | 5 | - | 7 | 4.6 | 10 | <150 | 1 | 3 |
| 18 | Malin Head | 1034.2 | +10 | S | 3 | c | 47 | 95 | 7 | 5 | 3 | - | 7.8 | 9 | 1500 | 0 | 2 |
| | Aldergrove | 1036.5 | +8 | S | 3 | o | 45 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| | Donaghadee | 1036.2 | +4 | SSW | 1 | c1pr | 45 | 95 | 7 | 8 | 3 | - | 4.6 | 7.8 | 2500 | 1 | 0 |
| 19 | Birr Castle | 1036.8 | +6 | S | 1 | c | 46 | 95 | 7 | 6 | 2 | - | 4.6 | 10 | 2500 | 1 | * |
| 20 | Valentia Obsy. | 1036.6 | +10 | S | 2 | c | 47 | 85 | 8 | 5 | 3 | - | 4.6 | 7.8 | 2500 | 1 | 3 |
| | Roches Point | 1038.1 | +6 | W | 2 | c | 48 | 85 | 8 | 5 | - | - | 7.8 | 7.8 | 2500 | 0 | 2 |

### PAST 24 HOURS.

| Stations. | Weather. 7h.–13h. 19th (37) | 13h.–18h. 19th (38) | 18h. 19th to 1h. 20th (39) | 1h.–7h. 20th (40) |
|---|---|---|---|---|
| London (Kew) | ofxcf | cfof | ofbfx | cfncnx |
| Croydon | cxff | cbcoffe | cfbfxcn | cnx |
| S. Farnborough | cxffbcf | bfcbfx | bfx | bfxc |
| Winchester | bccm. | bcbm. | bm.x | bm.xco |
| Boscombe Down | bm.cm. | bm. | bm. | bm.cm. |
| Calshot, S'thmtn | bcmxf | bcm.c | bmm.x | bm.xc |
| Dungeness | bc | c | • | f.m |
| Lympne | bcfc3o | c3om. | bfxc | cm. |
| Shoeburyness | off | cff | cfxm | cnx |
| Felixstowe | x/3ob | bcm | bc3w | off |
| Gorleston | cmm | cmm | comm | omm |
| Cranwell | bmfx | fxcfx | cfx | cfx |
| Birmingham | bcf | bcf | bcfx | bcc |
| Upper Heyford | cfx,bm | bbc, bm | bmx | bmcmx |
| Leafield | bcb | b | bbc | c |
| Ross-on-Wye | FFX | FFX | FFxoFx | Fxofx |
| Portland Bill | c | c | c-bc | bc |
| Plymouth | cfc | cbcm. | bcm. | bccm. |
| Falmouth | cbc | bccbc | bcc | cbcc |
| Scilly (St. Mary's) | cbc | bcc | cbc | bc |
| Guernsey | bcv | bccov | oc | co |
| Pembroke | ir.c | ir.mc | c | c |
| Holyhead | bccm. | cm. | c-ir. | r.cm. |
| Chester (Sealand) | cbcm | b,cmfx | cfx | ofm |
| L'pool (Bidston) | fbcmf | fbmc | cmom | mpdm |
| Harrogate | bbcc | c | cb | bx |
| Spurn Head | cfm3 | cff | cff | off |
| Catterick | bcfx | cf | cfmbc | bcmbx |
| Tynemouth | off | om. | obcm | bco |
| Inchkeith | ir.c | cbc | bcc | co |
| Leuchars | added. | cm.bwm | bwncm | cm |
| Renfrew | cirin. | cbccm. | cbccm. | cm. |
| Eskdalemuir | od.o | om. | om. | oo Fe |
| Tiree | c | cir | ir.bc | bcx |
| Stornoway | bccpr | cir | bcb | b |
| Dalwhinnie | c | c | • | bc |
| Aberdeen | comm | ombcffe | bffeb | bbc |
| Wick | bcc | cbc | cbc | bc |
| Lerwick | bc | bcc | c | c |
| Blacksod Point | prc | ir | c | c |
| Malin Head | bccr. | cbcc | cidm. | cm.m. |
| Aldergrove | bccm. | ccbm. | om. | om.cp. |
| Donaghadee | bc | cpr. | c | cid. |
| Birr Castle | coir. | oirc | c | cbc |
| Valentia Obsy. | circ | c | cbc | p.rc |
| Roches Point | c | c | c | cbc |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s., slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s./k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus.
R, heavy rain. r., slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ◐, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/10 of the sky.
"9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

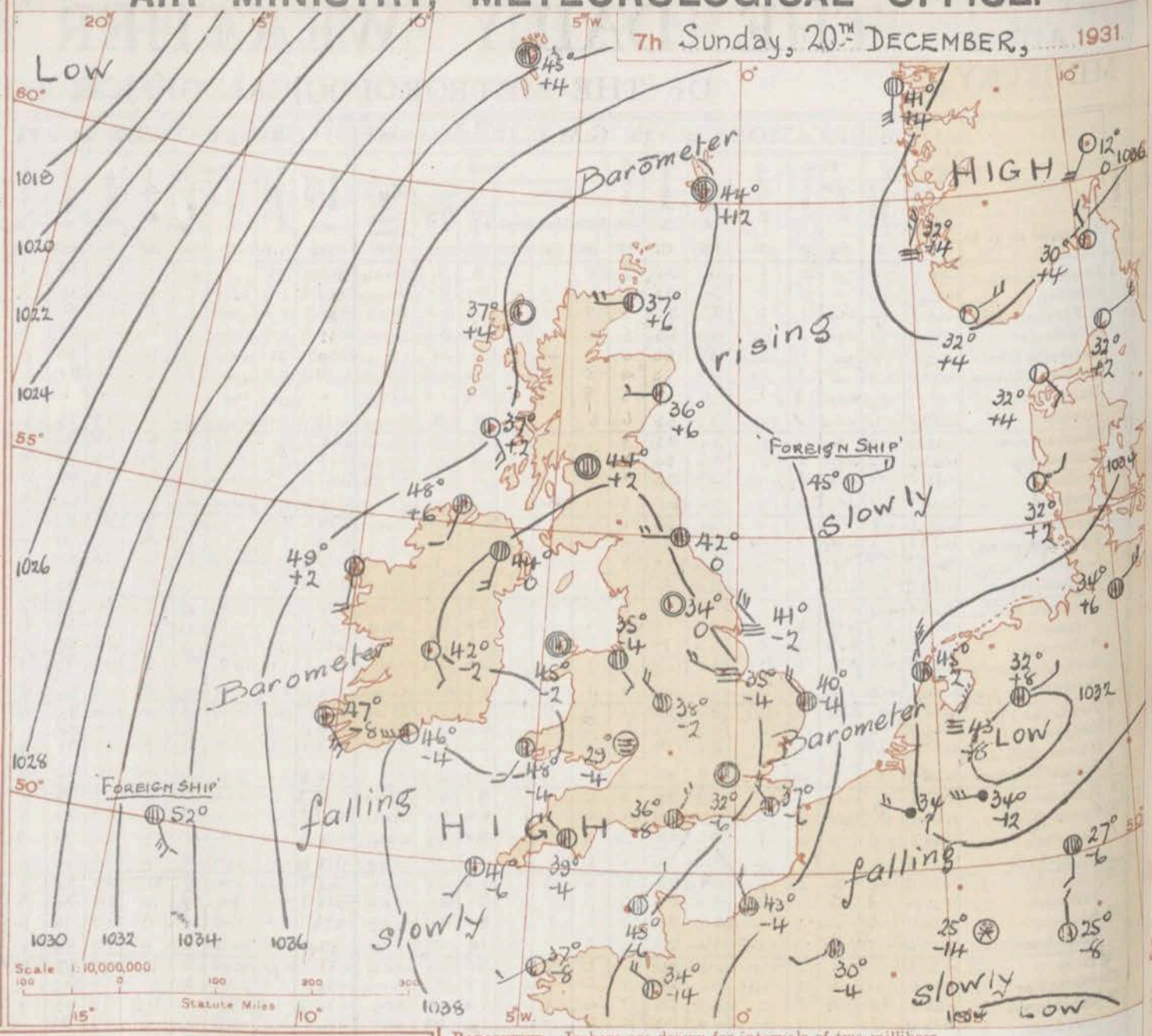
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for 19th December, 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 18th to 9h. 19th | Temperature. Max. 9h.—17h. 19th | Rainfall. Night. 17h. 18th to 9h. 19th | Rainfall. Day. 9h.—17h. 19th | Sunshine. Sunrise to Sunset. 19th |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | ofm | corn | 22 | 36 | - | - | 0·0 |
| | Bournemouth | ocbc | bcc | 28 | 44 | - | - | 2·5 |
| | Ventnor ... | cuoc | c | 37 | 44 | - | - | 0·1 |
| | Southsea ... | cf | bcm | 33 | 44 | - | - | 0·5 |
| | Bognor Regis | c | cbcc | 30 | 44 | - | - | 0·5 |
| | Littlehampton | c | cbc | 27 | 42 | - | - | 0·4 |
| | Worthing ... | c | c | 28 | 44 | Trace | - | 0·2 |
| | Brighton ... | fo | ocm | 29 | 44 | - | - | 0·2 |
| | Eastbourne† | cfo | oc | 28 | 43 | - | - | 0·0 |
| | Hastings† ... | xcmc | coc | 32 | 43 | - | - | 0·0 |
| | Folkestone ... | xcbccc | | 31 | 41 | - | - | 2·2 |
| | Dover... ... | fbbcc | com | 30 | 42 | - | - | 2·7 |
| | Deal ... ... | fx | fcom | 27 | 37 | - | - | 0·7 |
| | Ramsgate ... | ofbcm | bcm | 30 | 39 | Trace | - | 1·6 |
| | Margate ... | cfm | cm | 33 | 39 | - | - | 0·6 |
| 2 | Southend ... | coff | offe | 28 | 36 | Trace | Trace | 0·0 |
| | Maldon ... | xifcf | off | 23 | 33 | - | - | 0·0 |
| | Clacton-on-Sea | cmfbcx | mbccm | 25 | 34 | - | - | 0·2 |
| | Dovercourt ... | xbf | bf | 26 | 36 | - | - | 3·1 |
| | Lowestoft ... | c | cbo | 28 | 32 | - | - | 0·0 |
| | Skegness ... | xfobc | bcom | 30 | 35 | - | - | 3·2 |
| | Mablethorpe | bcm | bcm | 28 | 41 | - | - | 4.2 |
| | Cleethorpes ... | xcfb | bcm | 31 | 41 | Trace | - | 1·7 |
| 3 | Leamington S. | f | f | 21 | 32 | - | - | 0.0 |
| 4 | Cheltenham† | cfxf | bfx | 20 | 27 | - | - | 0·0 |
| 5 | Bath ... ... | mbcb | bmf | 22 | 35 | - | - | 3·0 |
| | Weymouth ... | c | c | 32 | 46 | - | - | 0·2 |
| | Jersey ... | bc | bc | 30 | 45 | - | - | 7·7 |
| | Torquay ... | bmf | c | 31 | 45 | - | - | 0·5 |
| | Penzance ... | cbc | cbc | 40 | 48 | - | - | 1·8 |
| | St. Ives ... | b | c | 42 | 47 | - | - | 2·2 |
| | Bude ... ... | cbcc | cbcc | 29 | 45 | - | - | 0·0 |
| | Ilfracombe ... | o | o | 36 | 45 | - | - | 0·0 |
| 6 | Aberystwyth | bcx | bccm | 31 | 42 | - | - | 0·5 |
| 7 | Llandudno ... | cbc | bc | 33 | 45 | - | - | 3·9 |
| | Colwyn Bay... | bcb | bbcmc | 33 | 47 | - | - | 4·8 |
| | Rhyl ... ... | bcb | bcc | 29 | 42 | - | - | 4·7 |
| 8 | Wallasey ... | ifcbc | fbcc | 31 | 41 | - | - | 1·5 |
| | Southport‖ ... | com | om | 34 | 38 | - | - | 0·6 |
| | Blackpool ... | cmc | cm | 30 | | - | - | 0·0 |
| | Morecambe ... | mc | c | 32 | 40 | - | - | 0·0 |
| 9 | Ilkley... ... | mbcc | cm | 27 | 38 | - | - | 0·0 |
| 10 | Berwick-on-T. | o | co | 34 | 44 | 0·2 | - | 0·1 |
| 11 | Dunbar ... | bmf | cbc | 32 | 45 | 1 | - | 0·6 |
| 12 | Douglas ... | oc | cbc | 42 | 47 | - | - | 0·0 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

## AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
◯ Clear sky. ◯ Sky less than 1/10 clouded. ◐ Sky 1/10 to 1/10 clouded. ◐ Sky 1/10 to 1/10 clouded. ◐ Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊤ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 20th Dec., 1931.

| Districts. | Forecasts |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands<br>4. W. Midlands<br>5. S.W. England<br>6. South Wales<br>7. North Wales<br>8. N.W. England<br>9. N. Midlands<br>10. N.E. England<br>11. S.E. Scotland<br>12. S.W. Scotland & Isle of Man | Light variable winds; mainly fair, but considerable fog locally; rather cold, frost at night. |
| 13. A. W Scotld. B. N.W. Scotland | Light to moderate southerly winds; mainly cloudy, some rain or drizzle; moderate temperature. |
| 14. Mid-Scotland<br>15. N.E. Scotland<br>16. Orkneys and Shetlands. | Light to moderate variable wind; mainly cloudy, local mist or fog; moderate temperature. |
| 17. N.W. Ireland<br>18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland | Cloudy, occasional local rain or showers; moderate temperature. |

C.H.K.

### GENERAL INFERENCE.

A large anticyclone centred off Southwest England extends from north of Scotland to south of Spain. Apart from some rain in the extreme west and drizzle in the extreme northwest, weather will be quiet and mainly fair, but there will be considerable fog locally.

### FURTHER OUTLOOK.

Little change.

Forecasts issued at 1100 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2. No 501/250. Wt. 73. 5,890l. Dd 909. 282/0. 12/31.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 20th December, 1931.

No. 25,595

### OBSERVATIONS at 1 hr. G.M.T. 20th December

| Division | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1039.3 | -2 | – | 0 | c\|f | 29 | 95 | 4 | 5 | 3 | – | 4.6 | 9+ | 4000 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot (S'thmtn) | 8 | 1039.6 | 0 | NW | 3 | b | 31 | 95 | 6 | – | – | – | 0 | 0 | – |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1037.9 | -4 | N'W | 3 | c | 33 | 85 | 4 | 5 | – | – | 10 | 10 | 4000 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1037.3 | -4 | NW'N | 3 | o | 35 | 85 | 4 | 5 | – | – | 10 | 10 | 1500 |
| | Cranwell | 240 | 1039.1 | +2 | WSW | 2 | cf | 33 | 95 | 3 | 5 | – | – | 10 | 10 | 2500 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1039.5 | +2 | NW'N | 3 | bc | 42 | 75 | 8 | 4 | – | – | 2.3 | 2.3 | 2500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1040.7 | +2 | – | 0 | c | 39 | 85 | 8 | 5 | – | – | 9 | 9 | 4000 |
| | Scilly (St. Mary's) | 163 | 1040.6 | +6 | SSE | 3 | bc | 46 | 75 | 8 | 5 | – | – | 4.6 | 4.6 | 4000 |
| | Guernsey | 175 | 1039.6 | -4 | NNW | 3 | c | 45 | 65 | 9 | 8 | – | – | 10 | 10 | 2500 |
| 6 | Pembroke | 142 | 1040.2 | +2 | SW | 2 | c | 46 | 95 | 7 | 5 | 6 | – | 4.6 | 9 | 4000 |
| 7 | Holyhead | 26 | 1038.7 | +2 | SSW | 2 | ic | 47 | 95 | 6 | 5 | 3 | – | 2.3 | 9+ | 2500 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1037.8 | 0 | NW | 4 | cf | 40 | 95 | 3 | 5 | 2 | – | 7.8 | 10 | 800 |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1038.4 | +6 | W | 2 | bc | 39 | 85 | 6 | 5 | – | – | 4.6 | 4.6 | 1500 |
| 11 | Inchkeith | 190 | 1037.0 | +4 | W | 2 | c | 44 | 95 | 7 | 5 | – | – | 7.8 | 7.8 | 2500 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1034.8 | +20 | WNW | 1 | b | 40 | 95 | 8 | – | – | – | 0 | 0 | – |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1035.5 | +14 | W | 2 | bc | 42 | 85 | 8 | 5 | – | – | 2.3 | 2.3 | 2500 |
| 16 | Lerwick | 54 | 1035.0 | +8 | – | 0 | c | 45 | 85 | 7 | 5 | – | – | 9 | 9 | 1500 |
| 17 | Blacksod Point | 18 | 1036.4 | +12 | – | 0 | c | 49 | 95 | 7 | – | 5 | – | 0 | 7.8 | – |
| 18 | Malin Head | 52 | 1037.0 | +10 | SW | 1 | c | 48 | 95 | 6 | 5 | 3 | – | 7.8 | 9+ | 800 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1039.1 | +6 | S | 3 | o | 48 | 85 | 8 | 6 | – | – | 10 | 10 | 1500 |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 20th December

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1036.5 | -8 | SW | 1 | c | 32 | 95 | 4 | 5 | 2 | – | 9 | 10 | 2500 | 4 | * |
| Croydon | 1038.2 | -6 | – | 0 | c | 32 | 95 | 4 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| S. Farnborough | 1038.5 | -4 | W | 1 | c | 32 | 95 | 4 | 5 | – | – | 10 | 10 | 1500 | 4 | * |
| Winchester | 1038.4 | -6 | NW | 1 | o | 33 | 95 | 6 | 5 | – | – | 10 | 10 | 1500 | 4 | * |
| Boscombe Down | 1039.1 | -2 | N | 1 | c | 34 | 95 | 5 | 5 | – | – | 10 | 10 | 2500 | 1 | * |
| Calshot (S'thmtn) | 1038.6 | -8 | NE'N | 2 | c | 36 | 75 | 6 | 5 | – | – | 10 | 10 | 4000 | 0 | 1 |
| Dungeness | * | * | W | 1 | cf | * | * | 2 | 5 | 2 | * | 7.8 | 10 | 1500 | * | 0 |
| Lympne | 1036.5 | -6 | NW | 2 | c | 37 | 85 | 5 | 5 | – | – | 10 | 10 | 4000 | 01 | * |
| Shoeburyness | 1037.3 | -2 | N | 1 | cm | 36 | 95 | 4 | 5 | – | – | 9+ | 9+ | 5700 | 1 | * |
| Felixstowe | 1037.1 | -4 | NNW | 2 | cf | 37 | 95 | 3 | – | – | – | 10 | 10 | – | 0 | 0 |
| Gorleston | 1036.5 | -4 | NW | 2 | b | 40 | 95 | 4 | 5 | – | – | 10 | 10 | 1500 | 0 | 0 |
| Cranwell | 1038.3 | -4 | W'N | 2 | cf | 35 | 95 | 3 | 5 | – | – | 10 | 10 | 2500 | 4 | * |
| Birmingham | 1038.9 | -2 | NW | 2 | c | 38 | 95 | 6 | 5 | – | – | 9+ | 9+ | 2500 | 1 | * |
| Upper Heyford | 1039.1 | 0 | W. | 1 | c | 32 | 95 | 4 | 5 | – | – | 10 | 10 | 2500 | 4 | * |
| Leafield | 1038.3 | -6 | NW'N | 2 | cf | 35 | 95 | 6 | 5 | – | – | 10 | 10 | 2500 | 4 | * |
| Ross-on-Wye | 1039.1 | -4 | – | 0 | cf | 29 | 95 | 2 | 5 | – | – | 10 | 10 | 450 | 4 | * |
| Portland Bill | 1038.4 | -6 | NNW | 3 | c | 44 | 85 | 7 | 4 | 2 | – | 7.8 | 10 | 2500 | 0 | 3 |
| Plymouth | 1039.4 | -4 | NW | 1 | c | 39 | 85 | 6 | 5 | – | – | 9 | 9 | 1500 | 0 | 2 |
| Falmouth | 1039.9 | -6 | NNW | 1 | c | 42 | 65 | 8 | 2 | 7 | – | 4.6 | 9 | 4000 | 0 | 1 |
| Scilly (St. Mary's) | 1039.5 | -6 | SW'S | 1 | bc | 41 | 75 | 8 | 7 | – | – | 2.3 | 2.3 | 4000 | 0 | 1 |
| Guernsey | 1038.2 | -6 | NE | 1 | c | 45 | 75 | 7 | 8 | – | – | 10 | 10 | 2500 | 0 | 2 |
| Pembroke | 1037.3 | -4 | SW | 2 | c | 48 | 95 | 7 | 5 | 6 | – | 4.6 | 9+ | 4000 | 0 | 1 |
| Holyhead | 1038.3 | -2 | – | 0 | c | 45 | 95 | 5 | 5 | – | – | 10 | 10 | 1500 | 1 | 0 |
| Chester (Sealand) | 1038.8 | -4 | ESE | 1 | o | 35 | 95 | 4 | 5 | – | – | 10 | 10 | 2500 | 1 | * |
| L'pool (Bidston) | 1038.2 | -2 | ESE | 2 | o | 37 | 95 | 4 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| Harrogate | 1038.8 | 0 | – | 0 | b | 34 | 95 | 7 | – | 4 | – | 0 | Tr. | – | 4 | * |
| Spurn Head | 1037.4 | -2 | NW'N | 3 | cf | 41 | 95 | 3 | 5 | 2 | – | 4.6 | 10 | 800 | 0 | 82 |
| Catterick | 1038.3 | +2 | – | 0 | b | 27 | 95 | 4 | – | – | – | 0 | 0 | – | 4 | * |
| Tynemouth | 1037.8 | 0 | W | 2 | o | 42 | 95 | 6 | 6 | – | – | 10 | 10 | 1500 | 1 | 2 |
| Inchkeith | 1037.6 | 0 | SW | 2 | c | 45 | 95 | 6 | 5 | 4 | – | 4.6 | 7.8 | 2500 | 0 | 1 |
| Leuchars | 1036.9 | +2 | WSW | 3 | c | 43 | 95 | 4 | 5 | 1 | – | 9 | 10 | 1500 | 1 | * |
| Renfrew | 1037.4 | +2 | – | 0 | c | 44 | 95 | 6 | 5 | – | – | 9+ | 9+ | 2500 | 1 | * |
| Eskdalemuir | 1038.4 | -2 | SE | 2 | F+ | 40 | 95 | 1 | 5 | – | – | 10 | 10 | 450 | 1 | * |
| Tiree | 1034.8 | +2 | SE'S | 2 | bc | 37 | 95 | 7 | 5 | 4 | – | 1 | 2.3 | 4000 | 4 | 2 |
| Stornoway | 1036.2 | +4 | – | 0 | b | 37 | 95 | 8 | 1 | 12 | – | 10 | 1 | 4000 | 1 | * |
| Dalwhinnie | ? | +8 | – | 0 | bc | 37 | 95 | 6 | 4 | – | – | 4.6 | 4.6 | 800 | 0 | * |
| Aberdeen | 1037.3 | +6 | W | 1 | bc | 36 | 95 | 8 | 5 | – | – | 4.6 | 4.6 | 2500 | 1 | 1 |
| Wick | 1036.3 | +6 | W | 2 | bc | 37 | 95 | 8 | 5 | – | – | 2.3 | 2.3 | 2500 | 1 | 2 |
| Lerwick | 1036.1 | +12 | – | 0 | c | 44 | 95 | 7 | 5 | – | – | 7.8 | 7.8 | 1500 | 0 | * |
| Blacksod Point | 1036.4 | +2 | S | 2 | bc | 49 | 85 | 7 | – | 4 | – | 0 | 2.3 | – | 0 | 3 |
| Malin Head | 1037.2 | +6 | SSW | 1 | c | 48 | 95 | 6 | 5 | – | – | 7.8 | 7.8 | 800 | 1 | 2 |
| Aldergrove | 1038.3 | 0 | SSW | 2 | cf | 44 | 95 | 7 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| Donaghadee | 1037.7 | 0 | W'S | 1 | c | 45 | 95 | 7 | 5 | 2 | – | 4.6 | 9 | 1500 | 1 | 0 |
| Birr Castle | 1038.4 | -2 | SE | 1 | bc | 42 | 95 | 7 | 5 | – | – | 4.6 | 4.6 | 2500 | 1 | * |
| Valentia Obsy.† | 1036.6 | -8 | SE | 3 | c | 47 | 85 | 8 | 5 | 7 | – | 2.3 | 7.8 | 2500 | 1 | * |
| Roches Point | 1038.6 | -4 | W | 3 | bc | 46 | 85 | 8 | 5 | – | – | 4.6 | 4.6 | 2500 | 0 | 2 |

### PAST 24 HOURS.

| Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F (32) | Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 19th Hrs. (36) |
|---|---|---|---|---|---|---|
| London (Kew) | 35 | 27 | 18 | – | – | 0.0 |
| Croydon | 39 | 27 | 23 | – | – | 0.0 |
| S. Farnborough | 38 | 24 | 14 | Tr | Tr. | 2.0 |
| Winchester | 40 | 25 | 19 | – | – | 3.1 |
| Boscombe Down | 39 | 27 | 19 | – | – | * |
| Calshot (S'thmtn) | 45 | 30 | 27 | – | – | 1.4 |
| Dungeness | 39 | 26 | * | – | – | * |
| Lympne | 39 | 31 | 28 | – | – | 0.4 |
| Shoeburyness | 34 | 28 | 26 | Tr | – | 0.0 |
| Felixstowe | 38 | 33 | 28 | – | – | 3.2 |
| Gorleston | 35 | 33 | 30 | – | – | 0.0 |
| Cranwell | 38 | 32 | 31 | – | – | 4.6 |
| Birmingham | 35 | 31 | 24 | – | – | 0.1 |
| Upper Heyford | 38 | 27 | 24 | – | 0.1 | * |
| Leafield | 36 | 26 | 20 | – | – | 4.9 |
| Ross-on-Wye | 27 | 21 | 18 | – | – | 0.0 |
| Portland Bill | 46 | 40 | * | – | – | * |
| Plymouth | 45 | 36 | 30 | – | – | 0.0 |
| Falmouth | 46 | 39 | * | – | – | 0.0 |
| Scilly (St. Mary's) | 48 | 39 | * | – | – | 4.9 |
| Guernsey | 44 | 41 | 34 | – | – | 5.0 |
| Pembroke | 48 | 43 | * | 1 | – | 0.0 |
| Holyhead | 47 | 45 | 38 | – | Tr. | 1.4 |
| Chester (Sealand) | 35 | 31 | 29 | – | – | 3.4 |
| L'pool (Bidston) | 39 | 36 | 33 | – | Tr. | 3.5 |
| Harrogate | 39 | 34 | 27 | – | – | 1.4 |
| Spurn Head | 41 | 39 | * | – | – | 1.2 |
| Catterick | 35 | 27 | 19 | – | – | * |
| Tynemouth | 44 | 38 | 33 | – | – | * |
| Inchkeith | 45 | 42 | 39 | Tr | – | 0.3 |
| Leuchars | 43 | 38 | 33 | 0.4 | Tr. | 0.0 |
| Renfrew | 46 | 43 | 39 | 1 | – | 0.0 |
| Eskdalemuir | 40 | 38 | 37 | 0.4 | Tr. | 0.0 |
| Tiree | 49 | 35 | 24 | 1 | 0.1 | 0.0 |
| Stornoway | 48 | 36 | * | 3 | 1 | 0.1 |
| Dalwhinnie | A7 | 36 | 31 | – | Tr. | 0.0 |
| Aberdeen | 44 | 34 | 28 | – | – | 0.0 |
| Wick | 46 | 34 | * | – | – | * |
| Lerwick | 44 | 43 | * | – | – | 1.6 |
| Blacksod Point | 52 | 37 47 | * | 3 | Tr. | * |
| Malin Head | 47 | 46 | * | 1 | 0.5 | 0.9 |
| Aldergrove | 46 | 44 | 38 | Tr | Tr | 2.0 |
| Donaghadee | 49 | 44 | * | Tr | 0.3 | * |
| Birr Castle | 48 | 41 | 32 | 0.5 | – | 0.0 |
| Valentia Obsy.† | 50 | 45 | 39 | 1 | 0.3 | 0.0 |
| Roches Point | 50 | 44 | * | – | – | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon | Weather Night | Temperature Day Max. °F. | Temperature Night Min. °F. | Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew | 18 | ofrcf | cfof | ofbxcmr | 35 | 27 | 18 | – | – | 0.0 | * | * | 3 |
| Croydon | 217 | cxff | dbcqffc | cfbfxm | 39 | 27 | 23 | – | – | 0.0 | * | * | 4 |
| Greenwich (Royal Observatory) | 149 | cf | cf | bfcfx | 36 | 28 | 20 | – | Tr | 0.0 | 88 | 90 | 2 |
| City (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Westminster (St. James' Park) | 27 | * | * | * | 37 | 30 | 25 | – | – | 0.0 | 92 | 75 | * |
| Regents Pk. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Camden Square | 110 | xcf | fcm | * | 37 | 30 | 25 | – | – | * | * | 86 | * |
| Kensington | 80 | of | of | * | 36 | 31 | 23 | – | – | 0.0 | At 18h. 90 | 90 | * |
| Hampstead Observatory | 450 | cx | ofbc | bcx | 34 | 27 | 19 | 0.1 | 0.1 | 0.0 | * | 89 | * |

**Atmospheric Pollution.** Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 20th

| South Kensington Max. | Time. | Min. | Time. |
|---|---|---|---|
| 3.2 | 13h 19th | 0.3 | 4-6h 20th |

| Kew Observatory Max. | Time. | Min. | Time. |
|---|---|---|---|
| 1.5 | 22h 19th | 0.3 | 5h 20th |

### FOREIGN OBSERVATIONS.

18h. G.M.T. 19th December — 7h. G.M.T. 20th December

| Stations | 18h. Barom. mb. | 18h. Wind Direc. | 18h. Wind Force | 18h. Weather | 18h. Temp. °F. | 7h. Barom. mb. | 7h. Wind Direc. | 7h. Wind Force | 7h. Weather | 7h. Temp. °F. | Past 24 Hours Max. Day °F. | Past 24 Hours Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris | 1040.5 | – | 0 | o | 28 | 1035.5 | WSW | 1 | c | 30 | 28 | 27 | Tr | – |
| Brussels | 1038.0 | SW | 2 | o | 30 | 1033.2 | NNW | 2 | rr | 34 | 30 | 30 | – | 1 |
| Berlin | 1032.3 | SW | 3 | ss | 32 | 1034.2 | SSE | 2 | o | 28 | 32 | 28 | 0.4 | 1 |
| Zürich | 1036.0 | E | 1 | b | 19 | 1032.8 | E | 1 | b | 14 | 27 | 12 | – | – |
| Rome | 1021.7 | NE | 4 | b | 32 | 1019.7 | NE | 3 | bc | 27 | 48 | 25 | – | – |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13–18 | 9 | 47–54 |
| 1 | 1–3 | 5 | 19–24 | 10 | 55–63 |
| 2 | 4–7 | 6 | 25–31 | 11 | 64–75 |
| 3 | 8–12 | 7 | 32–38 | 12 | 75 |
| | | 8 | 39–46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | | Objects not visible at |
|---|---|---|
| 0 | Dense fog | 55 yards. |
| 1 | Thick fog | 220 " |
| 2 | Fog | 550 " |
| 3 | Moderate fog | 1,100 " |
| 4 | Mist or haze | 1¼ miles. |
| 5 | Poor visibility | 2½ " |
| 6 | Moderate " | 6½ " |
| 7 | Good " | 12½ " |
| 8 | Very good " | 31 " |
| 9 | Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | | | |
|---|---|---|---|
| 0 | Calm. | 5 | Very rough. |
| 1 | Smooth. | 6 | High. |
| 2 | Slight. | 7 | Very high. |
| 3 | Moderate. | 8 | Precipitous. |
| 4 | Rough. | 9 | Confused. |

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 21st December 1931.

No. 25,596

| District / Stations (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) | Weather 7h.–13h. 20th (37) | Weather 13h.–18h. 20th (38) | Weather 18h. 20th – 1h. 21st (39) | Weather 1h.–7h. 21st (40) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **OBSERVATIONS at 13h. G.M.T. 20th Dec** | | | | | | | | | | | | | | **OBSERVATIONS at 18h. G.M.T. 20th Dec** | | | | | | | | | | | | | | | | **PAST 24 HOURS** | | | |
| 1 London (Kew)... | 1036.7 | -12 | N'W | 1 | cf | 41 | 85 | 3 | 5 | - | - | 9+ | 9+ | 4000 | 1036.2 | -6 | NW | 1 | m | 41 | 85 | 4 | 5 | - | - | 10 | 10 | 4000 | 1 | • | cf | cfom | omcm$_0$ | cz$_0$ |
| Croydon ... | 1036.7 | -12 | N'W | 1 | of | 37 | 85 | 2 | 5 | - | - | 10 | 10 | 4000 | 1036.1 | -4 | N | 1 | of | 42 | 85 | 2 | 5 | - | - | 10 | 10 | 450 | 1 | • | cmff | cff | cffd$_0$p$_0$ | omcm |
| S. Farnborough | 1037.1 | -14 | NW | 1 | cf | 38 | 95 | 3 | 5 | - | - | 9+ | 9+ | 7200 | 1036.1 | -2 | NW | 1 | cf | 38 | 95 | 3 | 5 | - | - | 9+ | 9+ | 7200 | 1 | • | cmfx | cf | cf | cm |
| Winchester ... | 1037.0 | -12 | N'W | 3 | c | 42 | 85 | 6 | 5 | - | - | 9+ | 9+ | 4000 | 1036.0 | -2 | N'W | 3 | c | 39 | 95 | 6 | 5 | - | - | 9+ | 9+ | 4000 | 1 | • | ocm$_0$ | cm$_0$ | cm$_0$bc | bccr$_0$ |
| Boscombe Down | 1037.5 | -10 | N'W | 1 | c | 40 | 95 | 5 | 5 | - | - | 9+ | 9+ | 4000 | 1036.8 | -4 | NNW | 2 | c | 37 | 95 | 5 | 5 | - | - | 9+ | 9+ | 2500 | 1 | • | cm$_0$ | cm$_0$ | cm$_0$om$_0$ | oid$_0$m |
| Calshot, S'thmtn | 1037.1 | -6 | NNW | 3 | c | 43 | 85 | 6 | 5 | 3 | - | 4-6 | 9 | 4000 | 1036.2 | -2 | NWN | 3 | c | 42 | 85 | 6 | 5 | - | - | 10 | 10 | 4000 | 0 | 0 | cm$_0$ | cm$_0$ | cm$_0$ | cm$_0$c |
| Dungeness ... | * | * | NWN | 1 | m | * | * | 4 | 5 | 2 | 7-8 | 7-8 | 9+ | 2500 | * | * | NNW | 2 | c | * | * | 5 | 5 | - | * | 7-8 | 7-8 | 1500 | • | 0 | m | d | • | o |
| Lympne ... | 1034.5 | -18 | N'E | 6 | cf | 41 | 95 | 3 | 5 | - | - | 9+ | 9+ | 1500 | 1034.2 | -6 | N'E | 4 | of | 42 | 95 | 3 | 6 | - | - | 10 | 10 | 450 | 1 | • | cm | cd$_0$df | fbcdo | om |
| 2 Shoeburyness | 1035.7 | -6 | NNW | 3 | c | 41 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 | 1035.2 | -2 | NW | 2 | bc | 41 | 95 | 5 | - | 8 | - | 0 | 2-3 | - | 0 | • | cm$_0$om$_0$ | ombm$_0$ | bm$_0$c | c |
| Felixstowe ... | 1036.1 | -6 | N'W | 3 | of | 41 | 85 | 3 | 5 | - | - | 10 | 10 | 1500 | 1035.5 | 0 | NNE | 3 | b | 39 | 95 | 7 | 5 | - | - | 1 | 1 | 4000 | 0 | 1 | off | cffcmbc | bcc | c |
| Gorleston ... | 1035.4 | -6 | NNE | 3 | c/r | 46 | 95 | 6 | 9 | - | - | 9 | 9 | 1500 | 1035.4 | 0 | NE'N | 2 | c | 44 | 95 | 8 | 4 | 2 | - | 4-6 | 9 | 2500 | 0 | 2 | ofm$_0$ | c | cpr$_0$c | c |
| Cranwell ... | 1037.9 | -4 | NW | 2 | cf | 37 | 95 | 3 | 5 | - | - | 9+ | 9+ | 4000 | 1037.4 | -2 | NW | 2 | of | 38 | 95 | 3 | 5 | - | - | 10 | 10 | 2500 | 1 | • | cf | cfir$_0$ | ofebf | bfx |
| 3 Birmingham ... | 1038.0 | -4 | NNW | 1 | c | 41 | 95 | 3 | 5 | - | - | 9 | 9 | 2500 | 1037.2 | -2 | - | 0 | cf | 39 | 95 | 3 | 5 | - | - | 9+ | 9+ | 1500 | 1 | • | cf | cf | cfor | off |
| Upper Heyford | 1037.6 | -12 | N | 3 | c | 38 | 95 | 4 | 3 | - | - | 9+ | 9+ | 4000 | 1037.1 | +2 | N | 2 | c | 38 | 95 | 4 | 5 | - | - | 9+ | 9+ | 4000 | 0 | • | cm | cm | cmir$_0$ | offe |
| Leafield ... | 1037.2 | -6 | NNW | 3 | c | 39 | 95 | 5 | 5 | - | - | 9+ | 9+ | 5700 | 1036.8 | 0 | NNW | 2 | c | 37 | 95 | 4 | 5 | - | - | 9+ | 9+ | 4000 | 1 | • | cm$_0$ | cm | coir$_0$ | cffo |
| 4 Ross-on-Wye ... | 1037.3 | -14 | SSW | 1 | of | 34 | 85 | 3 | 5 | - | - | 10 | 10 | 4000 | 1036.8 | -4 | SW | 1 | of | 34 | 95 | 2 | 5 | - | - | 10 | 10 | 4000 | 1 | • | ofcf | cfcmcf | cfofd | dof |
| 5 Portland Bill... | 1036.7 | -14 | N'W | 3 | c | 47 | 75 | 7 | 4 | 7 | - | 7-8 | 7-8 | 2500 | 1036.0 | +2 | NNE | 3 | c | 44 | 85 | 5 | 4 | - | - | 10 | 10 | 2500 | 0 | 3 | c | ccm$_0$ | c-cm$_0$ | c, cz$_0$ |
| Plymouth ... | 1038.0 | -12 | - | 0 | cf | 43 | 85 | 2 | 5 | - | - | 9+ | 9+ | 1500 | 1036.8 | -4 | NNW | 2 | c | 45 | 95 | 4 | 5 | 2 | - | 4-6 | 10 | 1500 | 0 | 1 | cff | cffm | cm$_0$bc | bccm$_0$ |
| Falmouth ... | 1038.3 | -8 | NWW | 2 | c | 46 | 75 | 7 | 8 | 3 | - | 7-8 | 10 | 4000 | 1036.9 | -6 | NW | 2 | c | 46 | 75 | 6 | 5 | 2 | - | 7-8 | 10 | 4000 | 0 | 0 | cm$_0$ | cm$_0$ | cr$_0$ | cbc |
| Scilly (St. Mary's) | 1038.1 | -10 | W | 3 | c | 47 | 75 | 7 | 5 | - | - | 7-8 | 7-8 | 4000 | 1037.4 | -4 | NNW | 2 | bc | 43 | 85 | 8 | 7 | - | - | 4-6 | 4-6 | 4000 | 0 | 0 | bcc | cbc | bcc | c |
| Guernsey ... | 1035.6 | -20 | NNE | 3 | bc | 49 | 65 | 8 | 7 | - | 1 | 4-6 | 4-6 | 2500 | 1035.3 | -2 | NE'E | 3 | bc | 47 | 75 | 7 | - | 7 | - | 0 | 4-6 | - | 0 | 3 | cbc | bcc | bcc | coir$_0$ |
| 6 Pembroke ... | 1038.0 | -2 | NNW | 2 | c | 47 | 95 | 6 | 3 | 6 | - | 4-6 | 9 | 2500 | 1036.0 | -8 | NW | 2 | c | 47 | 95 | 7 | 3 | 6 | - | 4-6 | 7-8 | 4000 | 0 | 1 | cid | c | cdrm$_0$ | cm$_0$ |
| 7 Holyhead ... | 1037.9 | -6 | - | 0 | c | 48 | 95 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 1037.2 | 0 | NE | 1 | c/r | 48 | 95 | 6 | 9 | - | - | 9 | 9 | 1500 | 1 | 0 | r$_0$fr$_0$ | ir$_0$m$_0$ | cbccm$_0$ | cmbcmw |
| Chester (Sealand) | 1038.3 | -8 | - | 0 | cf | 39 | 95 | 3 | 3 | - | - | 7-8 | (7-8) | 1500 | 1037.9 | 0 | - | 0 | F | 33 | 95 | 0 | 5 | - | - | 10 | 10 | <150 | 1 | • | omfir$_0$c | bccf F | Fcfr$_0$ | r$_0$of |
| 8 L'pool (Bidston) | 1038.0 | 0 | - | 0 | bcf | 42 | 95 | 3 | 5 | - | - | 4-6 | 4-6 | 450 | 1037.6 | 0 | W | 2 | of | 42 | 95 | 2 | 5 | - | - | {10} | 10 | 450 | 0 | • | omofb | bcfcF | Fcr$_0$ | fFe |
| 9 Harrogate ... | 1037.8 | 0 | N'W | 0 | c | 44 | 75 | 5 | 5 | - | - | 9+ | 9+ | 4000 | 1037.9 | 0 | - | 0 | c | 42 | 95 | 5 | 3 | - | - | 9+ | 9+ | 4000 | 1 | • | bbcc | c | coff | offir |
| 10 Spurn Head ... | 1037.0 | -2 | [illegible] | 3 | dm | 43 | 95 | 4 | 5 | 2 | - | 4-6 | 9+ | 800 | 1036.3 | -2 | N | 3 | c | 43 | 95 | 5 | 4 | 7 | - | 4-6 | 7-8 | 1500 | 1 | 2 | cffdf | frmc | cmcbc | bcx |
| Catterick ... | 1037.7 | -10 | - | 0 | bc | 38 | 95 | 4 | 5 | 3 | - | 4-6 | 4-6 | 4000 | 1037.8 | +2 | - | 0 | o | 39 | 95 | 4 | 5 | - | - | 10 | 10 | 1500 | 0 | • | bbcmx | bccmo | omf | Fcr$_0$r$_0$ |
| Tynemouth ... | 1037.8 | -4 | WNW | 1 | o | 47 | 85 | 4 | 6 | - | - | 10 | 10 | 1500 | 1037.9 | +4 | WNW | 2 | o | 45 | 95 | 5 | 6 | - | - | 10 | 10 | 1500 | 1 | 1 | oir$_0$mbc | om | o | oir$_0$ bc |
| 11 Inchkeith ... | 1037.9 | +2 | WSW | 2 | c | 45 | 95 | 7 | 5 | 8 | - | 4-6 | 7-8 | 2500 | 1038.3 | -2 | WNW | 2 | bc | 42 | 95 | 7 | 5 | [illegible] | - | 2-3 | 4-6 | 2500 | 0 | 1 | c | cipbc | com$_0$o | or$_0$r$_0$m |
| Leuchars ... | 1037.9 | +2 | - | 0 | c | 44 | 95 | 6 | 4 | 3 | - | 7-8 | 9+ | 2500 | 1037.7 | +2 | - | 0 | c | 43 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | • | cmpr$_0$m$_0$ | cpr$_0$cm$_0$ | cr$_0$m$_0$ | ccm |
| 12 Renfrew ... | 1038.0 | -2 | S | 1 | cf | 47 | 95 | 3 | 5 | - | - | 9 | 9 | 2500 | 1038.0 | +6 | - | 0 | of | 42 | 95 | 3 | 5 | - | - | 10 | 10 | 1500 | 1 | • | m$_0$ocff | cff | cffm$_0$ | cm$_0$ |
| Eskdalemuir ... | 1038.3 | -4 | - | 0 | of | 41 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 1038.3 | 0 | NE | 1 | cf | 35 | 95 | 3 | 6 | 3 | - | 2-3 | 7-8 | <150 | 1 | • | oFe | ofecfe | cfec | codfo |
| 13A Tiree ... | 1036.9 | 0 | SSE | 2 | c/r | 48 | 95 | 6 | 6 | - | 8 | 9+ | 10 | 1550 | 1036.7 | +2 | SSE | 1 | c | 43 | 95 | 7 | 8 | - | - | 7-8 | 7-8 | 2500 | 1 | 3 | bcc | cbcb | ccw | bccw |
| 13B Stornoway ... | 1036.6 | -6 | - | 0 | bc | 45 | 95 | 8 | 7 | - | - | 2-3 | 2-3 | 4000 | 1036.2 | 0 | S | 1 | c | 47 | 95 | 8 | 5 | 2 | - | 7-8 | 9+ | 2500 | 1 | 1 | bc | c | cpr | c |
| 15 Dalwhinnie ... | 1040.9 | -2 | - | 0 | F | 36 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 1040.0 | 0 | - | 0 | F | 32 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | 1 | • | F | F | • | Fg |
| Aberdeen ... | 1038.2 | +4 | NW | 1 | if | 41 | 95 | 6 | 5 | - | - | 9 | 9 | 4000 | 1038.5 | +6 | NW | 1 | o | 41 | 95 | 5 | 5 | - | - | 10 | 10 | 2500 | 1 | 0 | bcfmc | cmof | cm | c |
| Wick ... | 1037.7 | +10 | ESE | 1 | c | 43 | 95 | 8 | 8 | - | - | 7-8 | 7-8 | 2500 | 1037.8 | +4 | W | 2 | bc | 36 | 95 | 8 | 5 | - | - | 2-3 | 2-3 | 4000 | 1 | 2 | bcc | bc | bcc | cbc |
| 16 Lerwick ... | 1037.1 | -6 | - | 0 | c | 46 | 95 | 7 | 5 | - | - | 4-6 | 4-6 | 1500 | 1038.0 | +6 | - | 0 | c | 46 | 85 | 7 | 8 | - | - | 9+ | 9+ | 1500 | 0 | • | c | c | c | c |
| 17 Blacksod Point | 1036.3 | -2 | E | 3 | bc | 48 | 85 | 7 | - | - | 7 | 0 | 4-6 | - | 1035.5 | -4 | E | 3 | bc | 46 | 95 | 7 | - | 4 | - | 0 | 4-6 | - | 0 | 3 | bc | bc | bc | bc |
| 18 Malin Head ... | 1037.3 | -2 | SSE | 1 | bc | 49 | 85 | 7 | 8 | 4 | - | 2-3 | 2-3 | 2500 | 1037.0 | -2 | SW | 1 | bc | 41 | 95 | 7 | 5 | 4 | - | 2-3 | 2-3 | 4000 | 1 | 2 | cbc | bc | bcc | cc |
| Aldergrove ... | 1038.5 | -2 | - | 0 | m | 44 | 95 | 4 | 5 | - | - | 9 | 9 | 1500 | 1037.9 | -2 | - | 0 | c | 43 | 95 | 6 | 5 | - | - | 9 | 9 | 4000 | 1 | • | cm$_0$fm | cmm$_0$ | cm$_0$FF | coFF |
| Donaghadee ... | 1037.8 | -2 | SW | 1 | ir$_0$ | 47 | 95 | 5 | 6 | - | - | 7-8 | 7-8 | 800 | 1037.3 | 0 | - | 0 | m | 47 | 95 | 4 | 5 | 2 | - | 4-6 | 9 | 800 | 1 | 0 | cir$_0$m$_0$ | cir$_0$m | coffc | c |
| 19 Birr Castle ... | 1038.0 | +4 | SE | 1 | c | 46 | 85 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 1037.3 | -2 | SE | 1 | c | 43 | 95 | 7 | - | 7 | - | 0 | 10 | - | 1 | • | bcc | c | c | cbcdx |
| 20 Valentia Obsy. | 1036.8 | -6 | SE | 3 | c | 48 | 75 | 8 | 7 | 7 | - | 7-8 | 9 | 2500 | 1035.5 | -4 | SE | 3 | bc | 45 | 75 | 8 | 7 | 3 | - | 2-3 | 4-6 | 2500 | 1 | 3 | c | cbc | bccbc | bcc |
| Roches Point... | 1038.7 | 0 | SW | 2 | bc | 49 | 75 | 8 | 6 | 5 | - | 2-3 | 4-6 | 2500 | 1037.3 | -6 | SW | 3 | bc | 46 | 75 | 8 | 5 | - | - | 4-6 | 4-6 | 2500 | 0 | 2 | bc | bc | bcbx | bbcx |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40.—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s$_0$, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s$_0$/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus, R, heavy rain. r$_0$, slight rain. rr, continuous rain.

<, less than (for cloud height).

⊕, Solar halo. ⦶, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

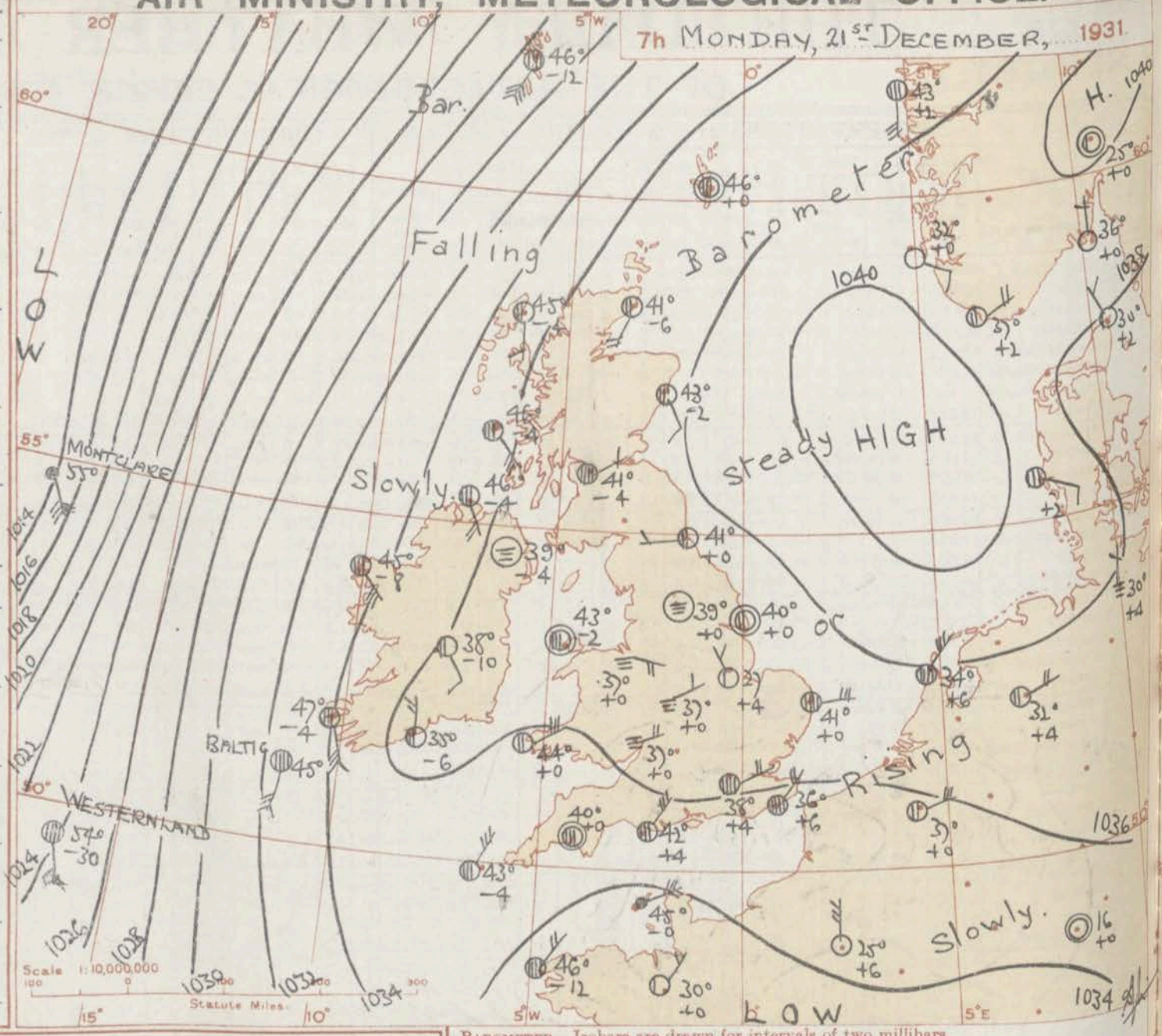
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for Sunday, 20th Dec. 1931.

| District | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 12th to 9h. 20th | Temperature. Max. 9h.—17h. 20th | Rainfall. Night. 17h. 12th to 9h. 20th | Rainfall. Day. 9h.—17h. 20th | Sunshine. Sunrise to Sunset. 10th |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | mo | omd | 27 | 42 | - | Tr | 0.0 |
| | Bournemouth | o | bbcco | 30 | 46 | - | - | 2.3 |
| | Ventnor ... | ozbc | bcou | 33 | 44 | - | - | 0.7 |
| | Southsea ... | c | om | 32 | 44 | - | - | 0.0 |
| | Bognor Regis | c | c | 31 | 44 | - | - | 0.0 |
| | Littlehampton | c | co | 30 | 42 | - | - | 0.0 |
| | Worthing ... | c | c | 31 | 43 | - | - | 0.0 |
| | Brighton ... | c | cf | 32 | 43 | - | - | 0.0 |
| | Eastbourne† | o | o | 32 | 43 | - | - | 0.0 |
| | Hastings† ... | co | o | 32 | 43 | - | - | 0.0 |
| | Folkestone ... | om | omid | 34 | 44 | - | 0.1 | 0.0 |
| | Dover... ... | fod | dof | 34 | 44 | - | 1 | 0.0 |
| | Deal ... ... | fodo | foc | 27 | 45 | - | Tr | 0.0 |
| | Ramsgate ... | com | odcm | 35 | 45 | - | 0.3 | 0.0 |
| | Margate ... | c | cd | 34 | 45 | - | Tr | 0.0 |
| 2 | Southend ... | cof | odfc | 28 | 42 | Tr | Tr | 0.0 |
| | Maldon ... | mo | o | 30 | 42 | - | - | 0.0 |
| | Clacton-on-Sea | cm | cm | 26 | 48 | - | - | 0.0 |
| | Dovercourt ... | xof | ocbcf | 27 | 43 | Tr | - | 0.0 |
| | Lowestoft ... | cmod | cprbc | 29 | 44 | 0.3 | 1 | 0.0 |
| | Skegness ... | omo | odm | 30 | 43 | Tr | Tr | 0.0 |
| | Mablethorpe | ocom | odm | 31 | 43 | - | - | 0.0 |
| | Cleethorpes ... | cfr | orom | 32 | 43 | - | 0.4 | 0.0 |
| 3 | Leamington S. | cm | om | 23 | 36 | - | - | 0.0 |
| 4 | Cheltenham† | omxc | cox | 21 | 36 | - | - | 0.0 |
| 5 | Bath ... ... | fc | cg | 23 | 38 | - | - | 0.0 |
| | Weymouth ... | mc | c | 34 | 45 | - | - | 0.1 |
| | Jersey ... | dcbc | bc | 35 | 50 | 0.4 | - | 3.5 |
| | Torquay ... | om | cbccm | 33 | 47 | - | - | 0.0 |
| | Penzance ... | cmc | c | 36 | 49 | - | - | 0.7 |
| | St. Ives ... | c | c | 38 | 48 | - | - | 0.0 |
| | Bude ... ... | prc | prc | 39 | 47 | 1 | 2 | 0.0 |
| | Ilfracombe ... | o | pm | 42 | 48 | - | 1 | 0.0 |
| 6 | Aberystwyth | cmcm | cmir | 35 | 46 | - | 1 | 0.0 |
| 7 | Llandudno ... | crm | cm | 36 | 46 | 0.1 | 0.2 | 0.0 |
| | Colwyn Bay... | crro | ombcb | 35 | 47 | 1 | 2 | 0.0 |
| | Rhyl ... ... | omdc | cbcbm | 39 | 47 | - | 0.5 | 0.6 |
| 8 | Wallasey ... | fcf | fbcf | 34 | 42 | - | - | 0.0 |
| | Southport‖ ... | tfc | ocfc | 35 | 43 | - | - | 0.0 |
| | Blackpool ... | mc | c | 34 | 44 | - | - | 1.5 |
| | Morecambe ... | c | obcc | 36 | 44 | - | - | 1.8 |
| 9 | Ilkley... ... | obcc | cro | 31 | 40 | - | Tr | 0.0 |
| 10 | Berwick-on-T. | c | c | 37 | 45 | Tr | - | 0.0 |
| 11 | Dunbar ... | cmo | cmo | 38 | 46 | - | - | 0.7 |
| 12 | Douglas ... | omir | omir | 43 | 48 | 2 | 3 | 0.0 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

## AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ∼ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 21st Decr. 1931. |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands | Light northeast or east wind; mainly cloudy, but some brighter intervals; local mist, perhaps fog, at night; moderate or rather low temperature. |
| 4. W. Midlands<br>5. S.W. England<br>6. South Wales | Light northeast or variable wind, perhaps southeast or south later; mainly cloudy, but with brighter intervals; local mist, perhaps fog, at night; moderate or rather low temperature. |
| 7. North Wales<br>8. N.W. England<br>9. N. Midlands | Light variable or southerly wind; mainly cloudy, perhaps local drizzle at times; mist; moderate temperature. |
| 10. N.E. England<br>11. S.E. Scotland | Light variable or southeast wind; mainly cloudy, but with brighter intervals; local mist; moderate temperature. |
| 12. S.W. Scotland & Isle of Man | As 18 - 19. |
| 13. A. W. Scotld. B. N.W. Scotland. | Moderate to strong southerly wind; cloudy; some drizzle or rain; rather mild. |
| 14. Mid-Scotland<br>15. N.E. Scotland<br>16. Orkneys and Shetlands. | Light southeast or south wind, freshening; cloudy; possibly deteriorating; moderate temperature. |
| 17. N.W. Ireland | As 13. |
| 18. N.E. Ireland<br>19. S.E. Ireland | Light to fresh southerly wind; cloudy; perhaps drizzle; rather mild. |
| 20. S.W. Ireland | As 13. |

### GENERAL INFERENCE.

An anticyclone centred over the North Sea will probably recede from the British Isles as a large low-pressure system on the Eastern Atlantic moves northeastwards. Fresh or strong southerly winds and some drizzle or rain are probable in the extreme West and North, but quiet conditions will continue for a time in England, with mist or perhaps fog in places.

### FURTHER OUTLOOK.

None issued.

Forecasts issued at 1000 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2. Pa 3371/2300 Wt. 75. D.8001. No. 908.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

## EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 21st December 1931.

No. 25596.

### OBSERVATIONS at 1 hr. G.M.T. 21st Dec

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1035.6 | -4 | NE'N | 1 | 0 | 40 | 95 | 4 | 5 | – | – | 10 | 10 | 800 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot (S'thmtn) | 8 | 1035.7 | 0 | NNW | 3 | c | 40 | 95 | 6 | 5 | – | – | 10 | 10 | 2500 |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1035.1 | +4 | E'N | 3 | 0 | 37 | 85 | 6 | 5 | – | – | 10 | 10 | 800 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1036.3 | +10 | ESE | 2 | c | 40 | 95 | 7 | 4 | – | – | 9 | 9 | 2500 |
| | Cranwell | 240 | 1035.3 | 0 | – | 0 | bf | 32 | 95 | 2 | – | – | – | 0 | 0 | – |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1034.8 | -6 | NE | 3 | c | 42 | 85 | 5 | 5 | 4 | – | 7·8 | 9+ | 1500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1035.6 | -6 | N | 1 | c | 43 | 95 | 7 | 5 | – | – | 7·8 | 7·8 | 4000 |
| | Scilly (St. Mary's) | 163 | 1036.1 | -8 | N | 3 | c | 46 | 85 | 7 | 7 | – | – | 9+ | 9+ | 4000 |
| | Guernsey | 175 | 1033.7 | -8 | NE | 2 | c | 47 | 85 | 6 | 8 | – | – | 10 | 10 | 2500 |
| 6 | Pembroke | 142 | 1035.2 | -2 | NE'N | 2 | 10c | 44 | 95 | 5 | 3 | 6 | – | 7·8 | 10 | 4000 |
| 7 | Holyhead | 26 | 1036.7 | -4 | NE'E | 1 | c | 44 | 95 | 5 | – | 3 | – | 0 | 10 | – |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1036.3 | 0 | E'N | 2 | bc | 40 | 95 | 7 | – | 1 | – | 0 | 2·3 | – |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1037.6 | 0 | E | 1 | 0 | 45 | 85 | 7 | 6 | – | – | 10 | 10 | 1500 |
| 11 | Inchkeith | 190 | 1037.8 | 0 | W | 2 | 0 | 40 | 95 | 7 | 5 | – | – | 10 | 10 | 800 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1035.8 | 0 | – | 0 | c | 42 | 95 | 8 | 4 | 7 | – | 2·3 | 7·8 | 4000 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1037.1 | -2 | S | 3 | c | 45 | 95 | 8 | 8 | – | – | 7·8 | 7·8 | 1500 |
| 16 | Lerwick | 54 | 1037.9 | 0 | – | 0 | c | 45 | 95 | 7 | 5 | – | – | 9 | 9 | 1500 |
| 17 | Blacksod Point | 18 | 1034.4 | -4 | SE | 3 | bc | 44 | 85 | 7 | – | 4 | – | 0 | 2·3 | – |
| 18 | Malin Head | 52 | 1036.3 | -4 | S | 1 | c | 45 | 95 | 7 | 5 | 5 | – | 2·3 | 9+ | 5700 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1034.5 | 0 | S | 3 | 0 | 47 | 75 | 8 | 6 | – | – | 10 | 10 | 1500 |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 21st Dec

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1036.6 | +4 | NE'E | 2 | c | 39 | 86 | 6 | 5 | – | – | 9+ | 9+ | 1500 | 1 | * |
| | Croydon | 1036.2 | +4 | E'N | 2 | c | 38 | 86 | 6 | 6 | – | – | 10 | 10 | 1500 | 1 | * |
| | S. Farnborough | 1036.2 | +4 | NNE | 2 | c | 38 | 95 | 5 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| | Winchester | 1036.1 | +2 | NNE | 2 | c | 39 | 95 | 7 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| | Boscombe Down | 1036.3 | +4 | NE | 1 | 0 | 38 | 95 | 4 | 5 | – | – | 10 | 10 | 450 | 1 | * |
| | Calshot (S'thmtn) | 1035.8 | +2 | NE'N | 3 | c | 41 | 85 | 7 | 5 | – | – | 10 | 10 | 4000 | 0 | 1 |
| | Dungeness | * | * | ENE | 2 | 0 | * | * | 7 | 5 | – | * | 10 | 10 | 1500 | * | 0 |
| | Lympne | 1036.9 | +6 | NNE | 2 | c | 36 | 85 | 6 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| 2 | Shoeburyness | 1036.5 | +6 | NE'E | 2 | c | 39 | 85 | 7 | 5 | – | – | 10 | 10 | 1500 | 0 | * |
| | Felixstowe | 1036.6 | 0 | NE'E | 3 | c | 40 | 75 | 7 | 5 | – | – | 10 | 10 | 1500 | 0 | 1 |
| | Gorleston | 1037.1 | 0 | E | 3 | c | 41 | 75 | 7 | 5 | – | – | 10 | 10 | 2500 | 0 | 1 |
| | Cranwell | 1037.8 | +4 | NW | 1 | b/f | 27 | 95 | 4 | 5 | – | – | 1 | 1 | 4000 | 4 | * |
| 3 | Birmingham | 1037.5 | 0 | ENE | 1 | of | 37 | 95 | 3 | 5 | – | – | 10 | 10 | 450 | 1 | * |
| | Upper Heyford | 1037.1 | +4 | ENE | 1 | of | 37 | 95 | 3 | 5 | – | – | 10 | 10 | 450 | 1 | * |
| | Leafield | 1036.7 | 0 | NE'E | 2 | f | 36 | 95 | 2 | 5 | – | – | 10 | 10 | 4150 | 1 | * |
| 4 | Ross-on-Wye | 1036.7 | 0 | E | 2 | of | 37 | 95 | 3 | 5 | – | – | 10 | 10 | 800 | 1 | * |
| 5 | Portland Bill | 1036.3 | +4 | NE | 3 | c | 42 | 85 | 6 | 4 | 2 | – | 7·8 | 10 | 1500 | 0 | 3 |
| | Plymouth | 1035.4 | 0 | – | 0 | c | 40 | 95 | 6 | – | 7 | – | 0 | 9+ | – | 1 | 0 |
| | Falmouth | 1035.1 | +2 | NE'N | 1 | bc | 41 | 95 | 7 | 2 | – | – | 2·3 | 2·3 | 4000 | 1 | 1 |
| | Scilly (St. Mary's) | 1035.2 | -4 | N'E | 3 | c | 43 | 85 | 8 | 8 | – | – | 7·8 | 7·8 | 4000 | 0 | 1 |
| | Guernsey | 1033.7 | 0 | ENE | 5 | ir. | 45 | 85 | 7 | 6 | – | – | 10 | 10 | 1500 | 1 | 3 |
| 6 | Pembroke | 1035.8 | 0 | ENE | 3 | bc | 44 | 95 | 6 | 5 | 6 | – | 2·3 | 4·6 | 4000 | 0 | 2 |
| 7 | Holyhead | 1036.1 | -2 | – | 0 | c | 43 | 95 | 5 | 5 | – | – | 9+ | 9+ | 4000 | 1 | 0 |
| | Chester (Sealand) | 1037.4 | 0 | SE'E | 2 | of | 37 | 95 | 2 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| 8 | L'pool (Bidston) | 1036.9 | 0 | SE | 2 | f | 39 | 95 | 2 | 5 | – | – | 10 | 10 | 4150 | 1 | * |
| 9 | Harrogate | 1037.8 | 0 | – | 0 | F | 39 | 95 | 1 | 5 | – | – | 10 | 10 | 4150 | 1 | * |
| 10 | Spurn Head | 1037.1 | 0 | – | 0 | bc | 40 | 85 | 7 | – | 2 | – | 0 | 2·3 | – | 0 | 2 |
| | Catterick | 1037.6 | +2 | – | 0 | rf | 38 | 95 | 3 | 5 | – | – | 10 | 10 | 800 | 1 | * |
| | Tynemouth | 1037.5 | 0 | W | 1 | bc | 41 | 85 | 7 | 2 | – | – | 4·6 | 4·6 | 2500 | 1 | 1 |
| 11 | Inchkeith | 1037.6 | -2 | WSW | 1 | r.r. | 41 | 95 | 5 | 5 | – | – | 10 | 10 | 800 | 1 | 1 |
| | Leuchars | 1037.4 | 0 | – | 0 | 0 | 40 | 95 | 6 | 5 | – | – | 10 | 10 | 2500 | 1 | * |
| 12 | Renfrew | 1037.3 | -4 | ENE | 1 | c | 41 | 95 | 6 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| | Eskdalemuir | 1037.6 | 0 | N | 1 | dd. | 39 | 95 | 3 | 5 | – | – | 10 | 10 | 4150 | 1 | * |
| 13A | Tiree | 1035.3 | -4 | SE | 3 | c | 46 | 95 | 6 | 5 | 1 | – | 7·8 | 9+ | 2500 | 0 | 3 |
| 13B | Stornoway | 1034.5 | -4 | S | 1 | bc | 45 | 95 | 8 | 4 | 7 | – | 2·3 | 4·6 | 4000 | 1 | 0 |
| 15 | Dalwhinnie | ? | -2 | – | 0 | F | 27 | 95 | 1 | – | – | – | 0 | 0 | – | 5 | * |
| | Aberdeen | 1037.9 | -2 | SSE | 1 | c | 43 | 75 | 8 | 5 | – | – | 7·8 | 7·8 | 2500 | 1 | 0 |
| | Wick | 1036.5 | -6 | SW | 2 | bc | 41 | 95 | 8 | 8 | – | – | 2·3 | 2·3 | 2500 | 1 | 2 |
| 16 | Lerwick | 1036.6 | 0 | – | 0 | c | 46 | 75 | 7 | 5 | 2 | – | 4·6 | 10 | 1500 | 0 | * |
| 17 | Blacksod Point | 1033.4 | -8 | SE | 3 | c | 45 | 75 | 7 | – | 5 | – | 0 | 7·8 | – | 0 | 3 |
| 18 | Malin Head | 1035.0 | -4 | SSE | 2 | c | 46 | 95 | 7 | 5 | – | – | 9+ | 9+ | 4000 | 1 | 2 |
| | Aldergrove | 1036.4 | -4 | – | 0 | F | 39 | 95 | 1 | 5 | – | – | 10 | 10 | 4150 | 1 | * |
| | Donaghadee | 1036.2 | 0 | S | 2 | c | 46 | 95 | 7 | 5 | 2 | – | 4·6 | 9 | 1500 | 0 | 1 |
| 19 | Birr Castle | 1036.4 | -10 | SE | 1 | bc | 38 | 95 | 7 | – | 4 | – | 0 | 2·3 | – | 1 | * |
| 20 | Valentia Obsy.† | 1033.6 | -4 | SSE | 4 | c | 47 | 85 | 8 | 5 | – | 6 | 4·6 | 9 | 2500 | 1 | * |
| | Roches Point | 1036.2 | -6 | N | 2 | bc | 35 | 95 | 8 | 5 | – | – | 2·3 | 2·3 | 1500 | 0 | 2 |

### PAST 24 HOURS.

| District | Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F (32) | Temperature Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 24th Hrs. (36) |
|---|---|---|---|---|---|---|---|
| 1 | London | 43 | 39 | 34 | – | – | 0.0 |
| | Croydon | 42 | 38 | 37 | – | 0.4 | 0.0 |
| | S. Farnborough | 40 | 37 | 30 | Tr | – | 0.0 |
| | Winchester | 42 | 37 | 34 | – | Tr. | 0.0 |
| | Boscombe Down | 40 | 34 | 32 | – | 0.1 | * |
| | Calshot | 43 | 39 | 34 | – | – | 0.0 |
| | Dungeness | 43 | 36 | * | ~~Tr.~~ | – | * |
| | Lympne | 42 | 35 | 33 | 0.3 | – | 0.0 |
| 2 | Shoeburyness | 42 | 36 | 34 | – | – | 0.0 |
| | Felixstowe | 44 | 37 | 33 | – | – | 0.0 |
| | Gorleston | 46 | 40 | 37 | 0.1 | 0.1 | 0.0 |
| | Cranwell | 38 | 26 | 21 | 0.3 | Tr. | 0.0 |
| 3 | Birmingham | 42 | 35 | 31 | – | 0.6 | 0.0 |
| | Upper Heyford | 39 | 35 | 31 | – | 0.2 | * |
| | Leafield | 39 | 34 | 30 | – | 0.5 | 0.1 |
| 4 | Ross-on-Wye | 35 | 34 | 33 | – | 0.5 | 0.0 |
| 5 | Portland Bill | 47 | 41 | * | – | – | * |
| | Plymouth | 46 | 40 | 38 | – | – | 0.0 |
| | Falmouth | 48 | 41 | * | – | 0.6 | 0.0 |
| | Scilly (St. Mary's) | 49 | 42 | * | – | – | 5.2 |
| | Guernsey | 50 | 44 | 36 | – | 0.2 | 2.3 |
| 6 | Pembroke | 49 | 40 | * | 1 | 1 | 0.0 |
| 7 | Holyhead | 49 | 43 | 35 | 0.2 | Tr. | 0.1 |
| | Chester (Sealand) | 39 | 31 | 30 | 0.3 | 0.5 | 0.7 |
| 8 | L'pool (Bidston) | 42 | 39 | 37 | – | 0.5 | 0.2 |
| 9 | Harrogate | 44 | 39 | 38 | – | 1 | 0.7 |
| 10 | Spurn Head | 43 | 38 | * | Tr | – | 0.0 |
| | Catterick | 39 | 38 | 37 | – | 0.2 | * |
| | Tynemouth | 47 | 41 | 36 | 0.3 | 0.1 | * |
| 11 | Inchkeith | 45 | 40 | 36 | – | 2 | 2.6 |
| | Leuchars | 45 | 40 | 37 | Tr | Tr. | 0.3 |
| 12 | Renfrew | 47 | 39 | 37 | – | – | 0.0 |
| | Eskdalemuir | 41 | 32 | 27 | Tr | Tr. | 0.0 |
| 13A | Tiree | 50 | 40 | 31 | 1 | Tr. | 0.2 |
| 13B | Stornoway | 48 | 41 | * | 0.2 | 0.2 | 2.6 |
| 15 | Dalwhinnie | 38 | 22 | 15 | – | – | 0.0 |
| | Aberdeen | 44 | 40 | 38 | – | – | 0.0 |
| | Wick | 45 | 35 | * | – | – | * |
| 16 | Lerwick | 47 | 44 | * | – | – | 0.4 |
| 17 | Blacksod Point | 51 | 42 | * | – | – | * |
| 18 | Malin Head | 49 | 40 | * | – | – | 2.9 |
| | Aldergrove | 45 | 35 | 32 | – | Tr. | 0.0 |
| | Donaghadee | 48 | 43 | * | 2 | – | * |
| 19 | Birr Castle | 47 | 38 | 28 | – | – | 0.0 |
| 20 | Valentia Obsy.† | 48 | 44 | 37 | – | – | 0.0 |
| | Roches Point | 50 | 36 | * | – | – | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon | Weather Night | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KEW | 18 | cf | cf om | omz | 43 | 39 | 34 | – | – | 0.0 | * | * | 4 |
| CROYDON | 217 | cmff | cff | cffdom | 42 | 38 | 37 | – | 0.4 | 0.0 | * | * | 4 |
| GREENWICH (Royal Observatory) | 149 | cf | cffm | cdom | 42 | 38 | 36 | – | Tr. | 0.0 | 83 | 83 | 4 |
| CITY (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| WESTMINSTER (St. James' Park) | 27 | * | * | * | 44 | 40 | 32 | 0.2 | | 0.0 | 81 | 72 | * |
| REGENTS PK. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| CAMDEN SQUARE | 110 | c | cd | * | 42 | 38 | 34 | Tr. | Tr. | * | * | 86 | * |
| KENSINGTON | 80 | bcf | cf | * | 43 | 39 | 34 | – | 0.2 | 0.0 | At 18h. 85 | 81 | * |
| HAMPSTEAD OBSERVATORY | 450 | om | or | om | 40 | 34 | 28 | 0.3 | Tr. | 0.0 | * | | * |

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 21st

| SOUTH KENSINGTON. Max. | Time. | Min. | Time. |
|---|---|---|---|
| 2.3 | 11h 20m. | <0.3 | 0–7h 21st |

| KEW OBSERVATORY. Max. | Time. | Min. | Time. |
|---|---|---|---|
| 0.6 | 11h 20m. | 0.1 | 1–6h 21st |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 20th Dec. Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 21st Dec. Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day. mm. | Rainfall Night. mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PARIS | 1031.8 | – | 0 | c | 37 | 1034.5 | N | 3 | b | 25 | 39 | 25 | 1 | – |
| BRUSSELS | 1032.2 | NE'N | 2 | 0 | 34 | 1036.3 | ENE | 3 | b | 27 | 43 | 27 | 1 | – |
| BERLIN | 1036.8 | – | 0 | c | 28 | 1036.5 | NW | 1 | f | 32 | 32 | 28 | – | – |
| ZURICH | | | | | | 1022.6 | S | 1 | c | 14 | | 12 | | Tr. |
| ROME | 1034 | NE | 3 | b | 30 | 1033.0 | N | 2 | c | 30 | 41 | 28 | – | – |

### EXPLANATION OF FIGURES & LETTERS, etc.

**COLUMNS 2, 16.** The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.** The BEAUFORT SCALE OF WIND is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13–18 | 9 | 47–54 |
| 1 | 1–3 | 5 | 19–24 | 10 | 55–63 |
| 2 | 4–7 | 6 | 25–31 | 11 | 64–75 |
| 3 | 8–12 | 7 | 32–38 | 12 | 75 |
| | | 8 | 39–46 | | |

**COLUMNS 34, 35.** Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | | Objects not visible at |
|---|---|---|
| 0 | Dense fog | 55 yards. |
| 1 | Thick fog | 220 " |
| 2 | Fog | 550 " |
| 3 | Moderate fog | 1,100 " |
| 4 | Mist or haze | 1½ miles. |
| 5 | Poor visibility | 2½ " |
| 6 | Moderate " | 6½ " |
| 7 | Good " | 12½ " |
| 8 | Very good " | 31 " |
| 9 | Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | | | |
|---|---|---|---|
| 0 | Calm. | 5 | Very rough. |
| 1 | Smooth. | 6 | High. |
| 2 | Slight. | 7 | Very high. |
| 3 | Moderate. | 8 | Precipitous. |
| 4 | Rough. | 9 | Confused. |

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† The Observations are from Valentia W/T station

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 22nd December 1931.

No. 25597

| District | Stations. (For heights see p. 4.) | OBS. 13h. G.M.T. 21st December: Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force. 0-12 (4) | Weather. (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud. Form. Low. (9) | Form. Med. (10) | Form. High. (11) | Amount. Low 0-10 (12) | Amount. Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1037.0 | -8 | N'E | 3 | o | 40 | 75 | 5 | 5 | - | - | 10 | 10 | 1500 |
| | Croydon | 1037.1 | -4 | ENE | 3 | m | 39 | 85 | 4 | 5 | - | - | 10 | 10 | 2500 |
| | S. Farnborough | 1037.1 | -6 | N | 2 | o | 39 | 85 | 5 | 5 | - | - | 10 | 10 | 2500 |
| | Winchester | 1037.1 | -4 | NNE | 2 | c | 38 | 85 | 6 | 5 | 2 | - | 9+ | 10 | 1500 |
| | Boscombe Down | 1037.1 | -2 | E | 2 | o | 37 | 85 | 5 | 5 | - | - | 10 | 10 | 1500 |
| | Calshot, S'thmtn | 1036.7 | +4 | N'E | 2 | c | 40 | 75 | 6 | 5 | - | - | 10 | 10 | 2500 |
| | Dungeness | * | * | ENE | 3 | m | * | * | 4 | 8 | 6 | * | 4-6 | 7-8 | 1500 |
| | Lympne | 1036.9 | -8 | E | 2 | c | 37 | 85 | 5 | 5 | - | - | 9+ | 9+ | 2500 |
| 2 | Shoeburyness | 1037.1 | -2 | E'S | 3 | c | 40 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 |
| | Felixstowe | 1037.5 | -2 | SE'E | 3 | c | 40 | 75 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Gorleston | 1038.1 | -4 | ESE | 2 | c | 40 | 75 | 6 | 5 | - | - | 10 | 10 | 2500 |
| | Cranwell | 1038.6 | 2 | - | 0 | f- | 32 | 95 | 3 | 5 | - | - | 10 | 10 | 1500 |
| 3 | Birmingham | 1037.9 | 0 | - | 0 | f | 38 | 95 | 3 | 1 | - | - | 7-8 | 7-8 | 1500 |
| | Upper Heyford | 1037.9 | -2 | ENE | 2 | c | 38 | 85 | 6 | 5 | - | - | 10 | 10 | 800 |
| | Leafield | 1037.5 | 0 | NE'N | 2 | o | 36 | 85 | 7 | 5 | - | - | 10 | 10 | 800 |
| 4 | Ross-on-Wye | 1037.6 | 0 | ENE | 2 | o | 37 | 95 | 5 | 5 | - | - | 10 | 10 | 800 |
| 5 | Portland Bill | 1035.9 | -6 | NE'E | 4 | c | 41 | 75 | 6 | 4 | 2 | - | 7-8 | 10 | 1500 |
| | Plymouth | 1036.1 | -2 | ESE | 4 | c | 44 | 75 | 6 | 5 | - | - | 7-8 | 7-8 | 2500 |
| | Falmouth | 1035.9 | -4 | E | 2 | bc | 45 | 95 | 7 | 2 | 3 | - | 4-6 | 4-6 | 4000 |
| | Scilly (St. Mary's) | 1035.1 | -4 | ESE | 3 | c | 48 | 85 | 6 | 8 | - | - | 9+ | 9+ | 2500 |
| | Guernsey | 1034.7 | -2 | ESE | 3 | c | 42 | 85 | 7 | 8 | 3 | - | 7-8 | 10 | 2500 |
| 6 | Pembroke | 1036.1 | +4 | ESE | 2 | f | 45 | 95 | 3 | 5 | 6 | - | 4-6 | 7-8 | 2500 |
| 7 | Holyhead | 1036.2 | -2 | SSW | 1 | c | 48 | 85 | 5 | 5 | - | - | 10 | 10 | 5700 |
| | Chester (Sealand) | 1038.0 | -2 | SE'S | 2 | f | 39 | 95 | 3 | 5 | - | - | 10 | 10 | 2500 |
| 8 | L'pool (Bidston) | 1036.8 | 0 | SSE | 4 | m | 40 | 95 | 4 | 5 | - | - | 10 | 10 | 1500 |
| 9 | Harrogate | 1038.0 | 0 | WSW | 1 | f- | 40 | 95 | 3 | 5 | 3 | - | 3 | 9 | <150 |
| 10 | Spurn Head | 1038.0 | 0 | - | 0 | c | 40 | 95 | 6 | 5 | 3 | - | 4-6 | 10 | 1500 |
| | Catterick | 1038.0 | -2 | SSE | 3 | m | 39 | 95 | 4 | 5 | - | - | 10 | 10 | 800 |
| | Tynemouth | 1038.0 | +4 | W | 2 | f | 41 | 85 | 3 | 2 | - | - | 4-6 | 4-6 | 2500 |
| 11 | Inchkeith | 1037.0 | -4 | S | 2 | c | 42 | 85 | 7 | 5 | - | - | 9+ | 9+ | 1500 |
| | Leuchars | 1036.7 | -10 | - | 0 | c | 44 | 85 | 7 | 8 | - | - | 9 | 9 | 4000 |
| 12 | Renfrew | 1037.0 | -4 | S | 1 | m | 41 | 95 | 4 | 5 | - | - | 9+ | 9+ | 1500 |
| | Eskdalemuir | 1036.9 | -6 | - | 0 | c | 40 | 95 | 7 | 5 | 3 | - | 4-6 | 9+ | 1500 |
| 13A | Tiree | 1034.1 | -6 | SSE | 5 | c | 46 | 85 | 6 | 5 | 7 | - | 7-8 | 9+ | 1500 |
| 13B | Stornoway | 1033.4 | -6 | SSW | 2 | c | 47 | 95 | 9 | 4 | 7 | - | 2-3 | 9 | 4000 |
| 15 | Dalwhinnie | 1037.6 | -10 | S | 1 | bc | 35 | 95 | 8 | 4 | 4 | 2 | 2-3 | 4-6 | 800 |
| | Aberdeen | 1036.5 | -10 | SE'S | 2 | bc | 43 | 65 | 7 | 7 | - | - | 4-6 | 4-6 | 4000 |
| | Wick | 1036.0 | -4 | S | 4 | c | 44 | 85 | 8 | 3 | - | - | 7-8 | 7-8 | 1500 |
| 16 | Lerwick | 1035.9 | -6 | S'W | 2 | c | 46 | 85 | 7 | 5 | - | - | 9+ | 9+ | 1500 |
| 17 | Blacksod Point | 1031.9 | -6 | ESE | 4 | bc | 49 | 75 | 8 | - | 4 | - | 0 | 4-6 | - |
| 18 | Malin Head | 1034.3 | -8 | SSE | 4 | bc | 46 | 95 | 7 | 7 | 5 | - | 1 | 2-3 | 1500 |
| | Aldergrove | 1035.9 | -6 | - | 0 | f | 43 | 95 | 3 | 5 | - | - | 9+ | 9+ | 4000 |
| | Donaghadee | 1036.0 | -4 | S | 1 | c | 47 | 85 | 7 | 5 | 2 | - | 4-6 | 7-8 | 1500 |
| 19 | Birr Castle | 1035.1 | -4 | SE | 1 | b | 45 | 85 | 7 | 1 | - | - | 1 | 1 | 2500 |
| 20 | Valentia Obsy. | 1033.4 | -8 | SE | 3 | c/fg | 47 | 85 | 8 | 5 | 2 | - | 7-8 | 9+ | 1500 |
| | Roches Point | 1034.8 | -6 | N | 2 | bc | 43 | 95 | 8 | 5 | - | - | 2-3 | 2-3 | 2500 |

| District | Stations. | OBS. 18h. G.M.T. 21st December: Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind. Direc. (17) | Wind. Force. 0-12 (18) | Weather. (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud. Form. Low. (23) | Form. Med. (24) | Form. High. (25) | Amount. Low. 0-10 (26) | Amount. Total 0-10 (27) | Height of Base (feet) (28) | State of Ground. 0-9 (29) | Sea. 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1037.7 | +6 | NE'E | 2 | o | 40 | 95 | 5 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Croydon | 1037.5 | +2 | E'N | 1 | m | 38 | 95 | 4 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | S. Farnborough | 1037.6 | +6 | NE | 1 | o | 37 | 95 | 5 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Winchester | 1037.5 | +6 | NNE | 2 | c | 38 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 01 | * |
| | Boscombe Down | 1037.4 | +2 | NE | 2 | o | 35 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Calshot, S'thmtn | 1037.0 | +2 | N'E | 2 | c | 39 | 85 | 6 | 5 | - | - | 9+ | 9+ | 4000 | 0 | 0 |
| | Dungeness | * | * | NE | 3 | c | * | * | 7 | 8 | - | * | 7-8 | 7-8 | 2500 | * | 1 |
| | Lympne | 1037.5 | +4 | NE | 3 | c | 33 | 85 | 5 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| 2 | Shoeburyness | 1038.1 | +6 | E'N | 3 | c | 37 | 85 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 0 | * |
| | Felixstowe | 1037.9 | +4 | ENE | 2 | c | 40 | 75 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | 1 |
| | Gorleston | 1037.8 | +4 | ESE | 2 | c | 41 | 75 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 0 | 2 |
| | Cranwell | 1039.1 | +4 | - | 0 | f | 34 | 95 | 3 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 3 | Birmingham | 1038.5 | +2 | E | 2 | m | 38 | 95 | 4 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| | Upper Heyford | 1038.6 | +2 | NE'E | 2 | c | 36 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| | Leafield | 1038.1 | +4 | NE'N | 1 | c | 35 | 95 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| 4 | Ross-on-Wye | 1037.8 | 0 | ENE | 1 | f | 36 | 95 | 3 | 5 | - | - | 10 | 10 | 450 | 1 | * |
| 5 | Portland Bill | 1036.1 | +2 | NE | 4 | c | 41 | 75 | 6 | 4 | 2 | - | 7-8 | 10 | 2500 | 0 | 3 |
| | Plymouth | 1036.1 | +6 | NE | 4 | b | 39 | 85 | 6 | - | - | - | 0 | 0 | - | 0 | 1 |
| | Falmouth | 1035.8 | +2 | ENE | 4 | bc | 44 | 85 | 6 | 3 | 8 | - | 4-6 | 4-6 | 4000 | 0 | 2 |
| | Scilly (St. Mary's) | 1035.1 | -4 | E'S | 3 | c | 46 | 85 | 6 | 5 | - | - | 9 | 9 | 4000 | 1 | 1 |
| | Guernsey | 1035.0 | +4 | E'S | 3 | bc | 41 | 75 | 7 | 1 | - | - | 4-6 | 4-6 | 2500 | 0 | 3 |
| 6 | Pembroke | 1035.6 | +2 | E'N | 3 | q | 41 | 95 | 5 | 3 | 6 | - | 2-3 | 4-6 | 4000 | 0 | 2 |
| 7 | Holyhead | 1036.1 | +2 | S'W | 2 | m | 46 | 85 | 4 | 5 | - | - | 10 | 10 | 5700 | 1 | 0 |
| | Chester (Sealand) | 1038.2 | +6 | SE'S | 3 | m | 37 | 95 | 4 | 5 | - | - | 9+ | 9+ | 5700 | 1 | * |
| 8 | L'pool (Bidston) | 1037.8 | 0 | SE | 4 | o | 37 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 | 0 | * |
| 9 | Harrogate | 1038.6 | 0 | SW | 1 | c | 36 | 95 | 5 | - | 3 | - | 0 | 7-8 | - | 1 | * |
| 10 | Spurn Head | 1038.5 | 0 | NW | 1 | c | 40 | 95 | 7 | 5 | 2 | - | 7-8 | 10 | 2500 | 1 | 1 |
| | Catterick | 1038.2 | +4 | S | 2 | F | 35 | 95 | 1 | · | · | · | 10 | 10 | <150 | 1 | * |
| | Tynemouth | 1037.8 | +4 | SW | 1 | f | 39 | 95 | 3 | 5 | - | - | 10 | 10 | 1500 | 1 | 1 |
| 11 | Inchkeith | 1036.6 | 0 | SW | 2 | m | 41 | 95 | 4 | 8 | - | - | 9 | 9 | 800 | 0 | 1 |
| | Leuchars | 1036.1 | -2 | - | 0 | bc | 39 | 95 | 6 | 5 | - | - | 4-6 | 4-6 | 4000 | 1 | * |
| 12 | Renfrew | 1036.2 | 0 | SE | 2 | m | 38 | 95 | 4 | 8 | - | - | 10 | 10 | 2500 | 1 | * |
| | Eskdalemuir | 1037.3 | +4 | - | 0 | o | 37 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 13A | Tiree | 1032.1 | -10 | S'E | 5 | bc | 45 | 85 | 8 | 7 | 6 | - | 2-3 | 2-3 | 2500 | 0 | 3 |
| 13B | Stornoway | 1030.9 | -10 | S | 4 | c | 47 | 95 | 7 | 4 | 6 | - | 2-3 | 7-8 | 4000 | 1 | 2 |
| 15 | Dalwhinnie | 1037.3 | 0 | S | 3 | b | 36 | 85 | 7 | - | - | - | 0 | 0 | - | 1 | * |
| | Aberdeen | 1035.8 | -2 | S'W | 3 | bc | 41 | 85 | 7 | 5 | - | - | 4-6 | 4-6 | 5700 | 1 | 1 |
| | Wick | 1033.5 | -10 | S | 4 | bc | 43 | 85 | 8 | 7 | 8 | - | 2-3 | 2-3 | 2500 | 1 | 3 |
| 16 | Lerwick | 1034.1 | -6 | S | 4 | c | 45 | 75 | 7 | 8 | - | - | 9 | 9 | 1500 | 0 | * |
| 17 | Blacksod Point | 1030.6 | -6 | ESE | 4 | c/p | 48 | 85 | 7 | 5 | - | - | 7-8 | 7-8 | 220 | 0 | 3 |
| 18 | Malin Head | 1032.8 | -4 | SSE | 4 | b | 42 | 95 | 7 | 1 | - | - | Tr | Tr | 4000 | 0 | 2 |
| | Aldergrove | 1035.3 | +2 | SE | 3 | bc | 43 | 85 | 6 | 5 | 3 | - | Tr | 2-3 | 4000 | 1 | * |
| | Donaghadee | 1035.1 | 0 | SW | 1 | c | 46 | 95 | 7 | 5 | - | - | 9 | 9 | 1500 | 1 | 0 |
| 19 | Birr Castle | 1034.2 | 0 | SE | 1 | b | 39 | 95 | 7 | - | - | - | 0 | 0 | | 1 | * |
| 20 | Valentia Obsy. | 1032.3 | -2 | SE'S | 4 | c/pc | 47 | 85 | 8 | 5 | - | - | 9+ | 9+ | 1500 | 1 | 2 |
| | Roches Point | 1034.6 | -4 | S | 3 | bc | 46 | 85 | 8 | 3 | 6 | - | 2-3 | 4-6 | 2500 | 0 | 3 |

| District | Stations. | PAST 24 HOURS. Weather. 7h.–13h. 21st (37) | 13h.–18h. 21st (38) | 18h. 21st to 1h. 22nd (39) | 1h.–7h. 22nd (40) |
|---|---|---|---|---|---|
| 1 | London (Kew) | o3g | o3gom₀ | c3₀ | c3₀ |
| | Croydon | cm₀m | cm | cmm₀ | cm₀ |
| | S. Farnborough | cm₀om | ocom₀ | cm₀ | om₀om |
| | Winchester | c | cm₀ | cm₀ | cm₀ |
| | Boscombe Down | com₀ | om₀ | om₀c | c3 |
| | Calshot, S'thmtn | cm₀ | cm₀ | cm₀ | c |
| | Dungeness | c | c | * | bc |
| | Lympne | com₀ | cm₀ | bccm₀ | cm₀ |
| 2 | Shoeburyness | ccm₀ | cm₀c | cbc | c |
| | Felixstowe | c | c | c | c3₀ |
| | Gorleston | c | c | c | c |
| | Cranwell | bmoF | cf | cf | c3m₀ |
| 3 | Birmingham | of | cfom | om | o |
| | Upper Heyford | ofed₀ | cm₀ | cm₀ | cm₀ |
| | Leafield | ofd₀d₀ | oc | c | c |
| 4 | Ross-on-Wye | om | omid₀ | ofom | om₀ |
| 5 | Portland Bill | c,c3₀ | c,c3₀ | c | c |
| | Plymouth | m₀fcm₀ | cm₀bcb | bm₀ | b |
| | Falmouth | bcm₀ | bcm₀ | bcm₀ | bcm₀ |
| | Scilly (St. Mary's) | c | cr₀c | cbc | cir₀ |
| | Guernsey | o6oc | cbc | bcc | co |
| 6 | Pembroke | cbcf | cfbcf | bcc | c |
| 7 | Holyhead | cfmcm₀ | cm | cmcbm₀ | bbccm₀ |
| | Chester (Sealand) | off | ofmc | bcmbf | bcfcm₀ |
| 8 | L'pool (Bidston) | feomo | mf3₀o | om₀c | c |
| 9 | Harrogate | ffoc | fcbc | bcoiF | off |
| 10 | Spurn Head | bcfc | cd₀c | bc | bc |
| | Catterick | o6fd₀c | omffe | fex | fexf |
| | Tynemouth | bcff | bcff | aff | b |
| 11 | Inchkeith | ir₀m₀c | cmm | cmcb₀ | m₀cbc |
| | Leuchars | om₀c | cbcm₀ | bm₀xf | bfxcm₀ |
| 12 | Renfrew | cm₀off | mbcff | cmm₀ | cm₀ |
| | Eskdalemuir | oid₀c | cbco | o | oco |
| 13A | Tiree | cm₀ | cbc | bcb | bc |
| 13B | Stornoway | bcc | c | c | c |
| 15 | Dalwhinnie | bc | b | * | c |
| | Aberdeen | cbc | bcmbc | bcbx | bx |
| | Wick | bcc | cbc | bc | bc |
| 16 | Lerwick | c | c | cpr₀ | cbc |
| 17 | Blacksod Point | bc | bq | cjp | cjp |
| 18 | Malin Head | cbce | bcbe | b | bbc |
| | Aldergrove | off | cfcm₀ | bc | bcb |
| | Donaghadee | c1r₀c | c | bc | bcb |
| 19 | Birr Castle | bcb | b | bbc | cr₀bcbx |
| 20 | Valentia Obsy. | cpr1r₀c | cpr₀c | 1r₀bc | cbc |
| | Roches Point | bc | bc | bcw | bcw |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40.—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220-1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight: repetition of letters indicates continuity: thus, R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ◐, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than 1/10 of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

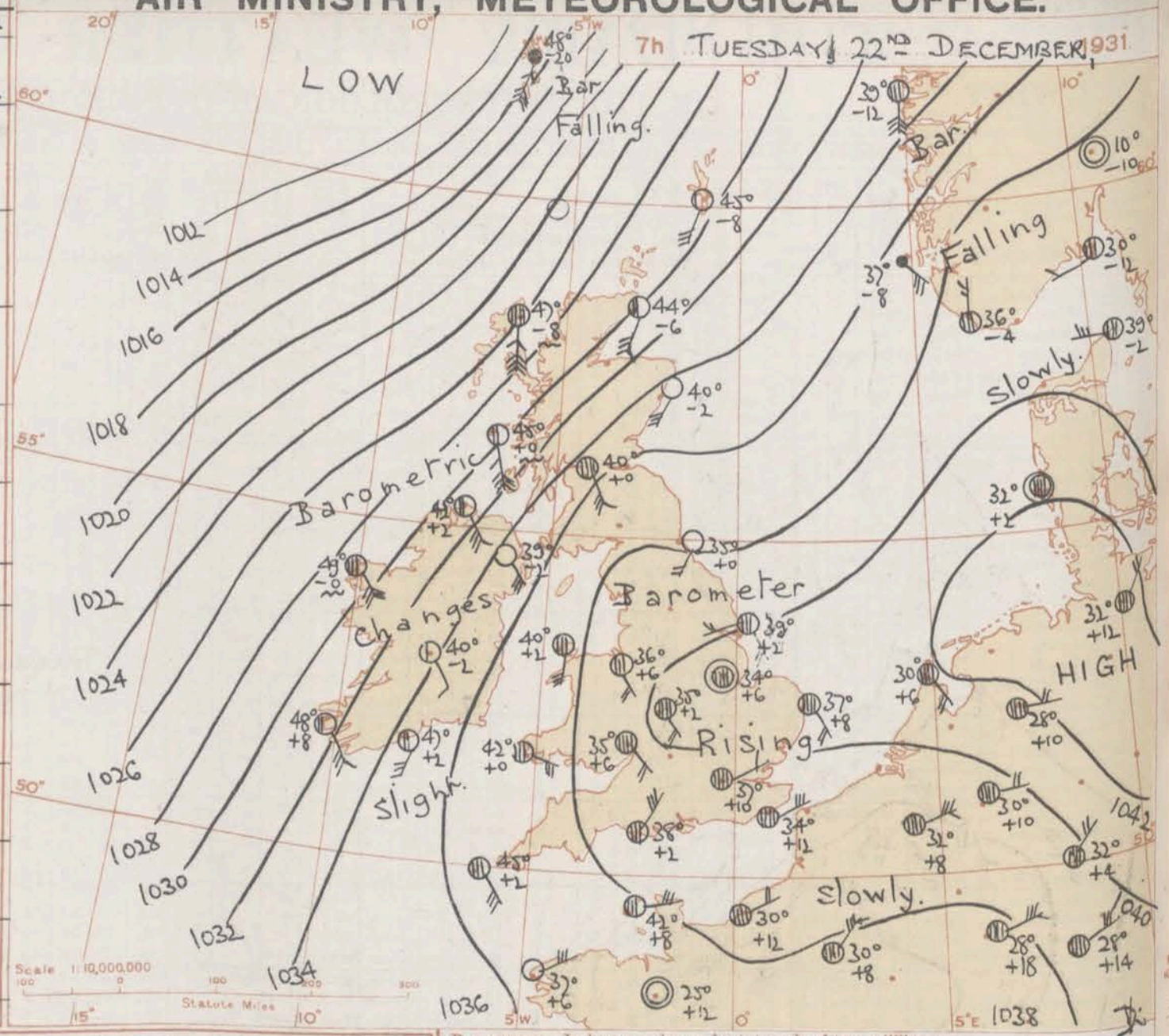
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

# AIR MINISTRY, METEOROLOGICAL OFFICE.

## REPORTS from HEALTH RESORTS for 21st. December 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 20th. to 9h. 21st. | Temperature. Max. 9h.—17h. 21st. | Rainfall. Night. 17h. 20th. to 9h. 21st. | Rainfall. Day. 9h.—17h. 21st. | Sunshine. Sunrise to Sunset. 21st. |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | omo | ocb | (36) | 38 | 0.3 | – | 0.0 |
| | Bournemouth | o | om | 36 | 40 | – | – | 0.0 |
| | Ventnor ... | ouz | oucz | 39 | 40 | – | – | 0.0 |
| | Southsea ... | om | om | 39 | 41 | – | – | 0.0 |
| | Bognor Regis | o | o | 36 | 40 | – | – | 0.0 |
| | Littlehampton | c | cbc | 38 | 40 | – | – | 0.0 |
| | Worthing ... | oc | c | 38 | 40 | – | – | 0.0 |
| | Brighton ... | co | cof | 32 | 40 | – | – | 0.0 |
| | Eastbourne† | o | ocb | 37 | 42 | – | – | 0.1 |
| | Hastings† ... | o | occ | 37 | 42 | – | – | 0.0 |
| | Folkestone ... | omo | omo | 37 | 39 | 0.2 | – | 0.0 |
| | Dover... ... | o | oc | 38 | 39 | 0.3 | – | 0.0 |
| | Deal ... ... | o | oco | 38 | 40 | – | – | 0.0 |
| | Ramsgate ... | c | c | 38 | 40 | – | – | 0.0 |
| | Margate ... | c | c | 37 | 40 | – | – | 0.0 |
| 2 | Southend ... | of | o | 37 | 39 | Trace | – | 0.0 |
| | Maldon ... | o | oc | 36 | 40 | – | – | 0.0 |
| | Clacton-on-Sea | c | c | 37 | 41 | – | – | 0.0 |
| | Dovercourt ... | oc | oc | 38 | 41 | – | – | 0.0 |
| | Lowestoft ... | c | c | 39 | 40 | 0.4 | – | 0.0 |
| | Skegness ... | omo | omo | 39 | 40 | Trace | – | 0.0 |
| | Mablethorpe | om | ogm | 31 | 39 | – | – | 0.0 |
| | Cleethorpes ... | xofo | o | 29 | 38 | Trace | – | 0.0 |
| 3 | Leamington S. | om | om | 31 | 38 | – | – | 0.0 |
| 4 | Cheltenham† | ofomo | o | 31 | 38 | Trace | – | 0.0 |
| 5 | Bath ... ... | c | c | 33 | 39 | Trace | – | 0.0 |
| | Weymouth ... | c | c | 38 | 41 | Trace | – | 0.0 |
| | Jersey ... | c | cbc | 39 | 46 | – | – | 2.3 |
| | Torquay ... | cm | co | 38 | 43 | – | – | 0.0 |
| | Penzance ... | bm | bm | 42 | 48 | 3 | – | 5.7 |
| | St. Ives ... | b | b | 43 | 47 | 4 | – | 6.4 |
| | Bude ... ... | c | bcb | 34 | 47 | Trace | – | 2.5 |
| | Ilfracombe ... | o | o | 41 | 43 | 0.1 | – | 0.0 |
| 6 | Aberystwyth | ifcm | cmomo | 40 | 44 | 0.3 | – | 0.0 |
| 7 | Llandudno ... | cmo | c | 35 | 45 | – | – | 0.0 |
| | Colwyn Bay... | cmo | o | 38 | 46 | 0.3 | – | 0.0 |
| | Rhyl ... ... | cm | cmo | 34 | 43 | 0.1 | – | 0.0 |
| 8 | Wallasey ... | fc | cfo | 36 | 42. | 0.3 | – | 0.0 |
| | Southport‖ ... | fmo | o | 38 | 41 | – | – | 0.0 |
| | Blackpool ... | of | co | 39 | 41 | – | – | 0.0 |
| | Morecambe ... | cmo | cco | 38 | 43 | – | – | 0.0 |
| 9 | Ilkley... ... | focm | mcf | 32 | 41 | 1 | – | 0.0 |
| 10 | Berwick-on-T. | cbc | bco | 40 | 43 | – | – | 4.2 |
| 11 | Dunbar ... | bcr. | cbc | 39 | 44 | 1 | – | 0.2 |
| 12 | Douglas ... | cmo | omo | 39 | 47 | 0.5 | – | 0.0 |

† Max. Temp. for period 21h. yesterday to 17h to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 22nd Dec. 1931.

| Districts. | Forecasts |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands | Light east or southeast wind; mainly cloudy; rather cold. |
| 4. W. Midlands<br>5. S.W. England<br>6. South Wales<br>7. North Wales | Light or moderate southeast or south wind; mainly cloudy; rather cold. |
| 8. N.W. England<br>9. N. Midlands<br>10. N.E. England | Light southerly wind; mainly cloudy; local mist, perhaps fog; rather cold. |
| 11. S.E. Scotland<br>12. S.W. Scotland & Isle of Man | Moderate or fresh south or southwest wind; mainly cloudy; moderate temperature. |
| 13. A. W. Scotld. B. N.W. Scotland. ↓ | Strong or fresh south or southwest wind, moderating; cloudy; occasional rain; rather mild. |
| 14. Mid-Scotland<br>15. N.E. Scotland ↓<br>16. Orkneys and Shetlands. ↓ | Moderate or fresh southerly wind, strong locally at first; mainly cloudy; moderate temperature. |
| 17. N.W. Ireland | Fresh southerly wind; mainly cloudy; perhaps occasional rain; moderate temperature. |
| 18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland | Moderate southeast or south wind, fresh locally; mainly cloudy; moderate temperature. |

### GENERAL INFERENCE.

A large anticyclone is centred over Northern Germany. Secondaries to a depression north of Iceland will travel northeastwards between Iceland and Britain. Fresh or strong southerly winds and rather mild weather with occasional rain will occur in the Northwest, but conditions will be quieter, mainly cloudy and rather cold in most other districts.

### FURTHER OUTLOOK.

None issued.

### Time of issue of Gale Warning.

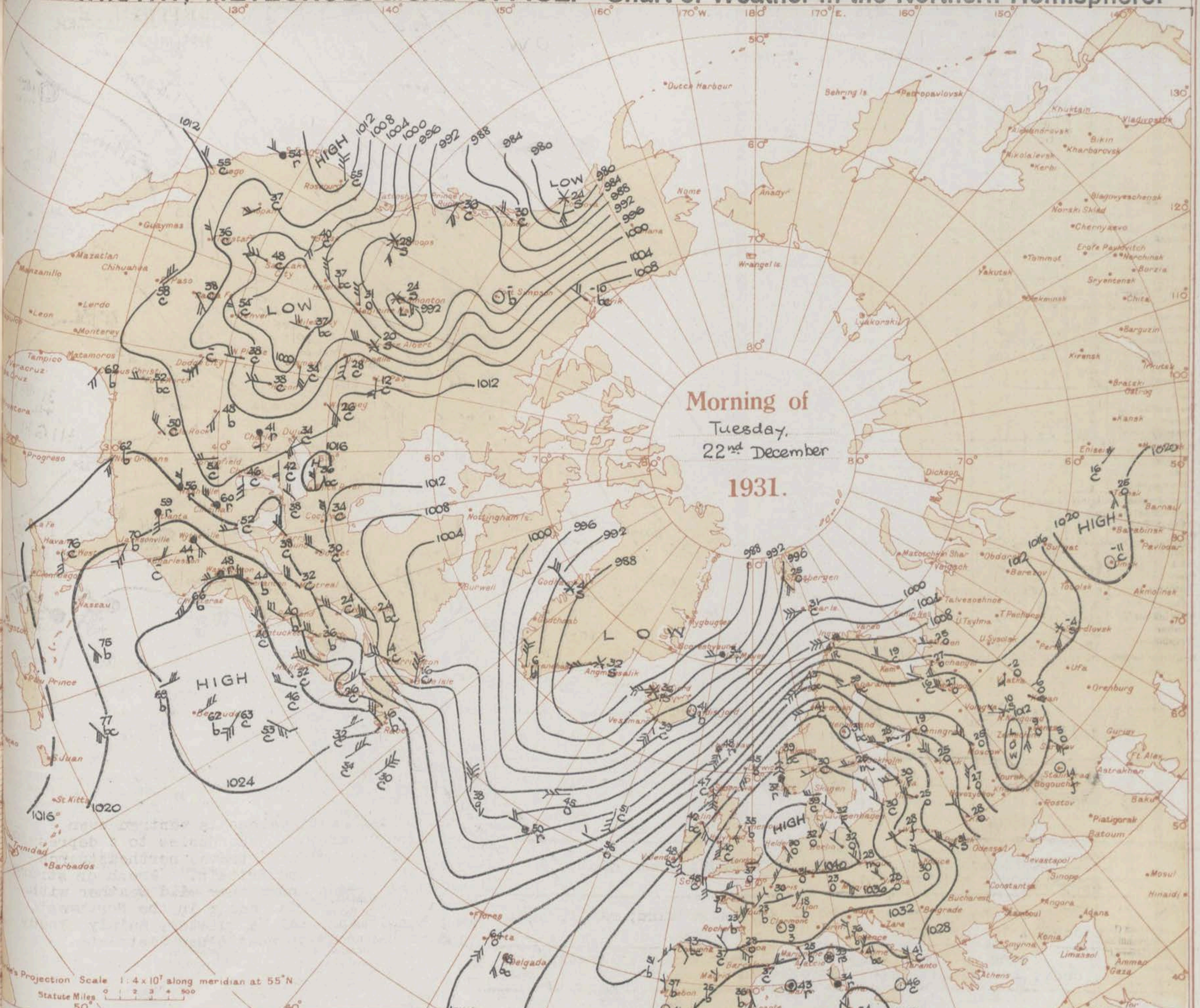
↓ South cone at 0810 on 22nd in districts 13B, 15 and 16.

Forecasts issued at 1005 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.




EXPLANATION OF CHART.

…METER. Isobars are drawn for intervals of four millibars.

… Arrows fly with the wind. Number of feathers indicate Beaufort Force.

… Calm.

…PERATURE is given in degrees F.

…THER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 22nd December 1931.

No. 25597

### OBSERVATIONS at 1 hr. G.M.T. 22nd December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1038.0 | 0 | E'S | 1 | c | 36 | 85 | 5 | 5 | – | – | 10 | 10 | 2500 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot, (S'thmtn) | 8 | 1037.9 | +6 | N | 3 | c | 37 | 75 | 7 | 5 | – | – | 10 | 10 | 1500 |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1038.0 | +2 | ENE | 3 | c | 36 | 85 | 5 | 5 | – | – | 10 | 10 | 1500 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1039.1 | 0 | E'S | 3 | c | 40 | 85 | 7 | 5 | – | – | 10 | 10 | 2500 |
| | Cranwell | 240 | 1039.9 | +4 | SE | 1 | cf | 34 | 95 | 3 | 5 | – | – | 9+ | 9+ | 1500 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1037.3 | +6 | NE | 3 | c | 40 | 75 | 7 | 4 | 2 | – | 7.8 | 10 | 2500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1036.6 | +4 | N'E | 2 | bc | 38 | 95 | 6 | 8 | – | – | 4.6 | 4.6 | 4000 |
| | Scilly (St. Mary's) | 163 | 1036.1 | +4 | ESE | 3 | bc | 43 | 85 | 7 | 7 | – | – | 4.6 | 4.6 | 4000 |
| | Guernsey | 175 | 1035.8 | 0 | E | 3 | c | 44 | 85 | 7 | 8 | – | – | 7.8 | 7.8 | 2500 |
| 6 | Pembroke | 142 | 1036.6 | 0 | E'S | 3 | c | 42 | 95 | 7 | 5 | 6 | – | 4.6 | 7.8 | 4000 |
| 7 | Holyhead | 26 | 1037.4 | +6 | SSW | 4 | b | 40 | 95 | 6 | 5 | – | – | Tr | Tr | 1500 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1039.1 | +2 | SW | 1 | c | 40 | 95 | 6 | 5 | – | – | 10 | 10 | 2500 |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1038.0 | 0 | SW | 2 | b | 37 | 95 | 7 | – | – | – | 0 | 0 | – |
| 11 | Inchkeith | 190 | 1036.7 | -2 | SSW | 1 | c | 40 | 95 | 6 | 5 | – | – | 9+ | 9+ | 1500 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1037.9 | -14 | S | 7 | c | 47 | 95 | 8 | 8 | 7 | – | 4.6 | 7.8 | 4000 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1032.3 | -2 | SSW | 4 | bc | 39 | 95 | 8 | 5 | – | – | 2.3 | 2.3 | 4000 |
| 16 | Lerwick | 54 | 1030.9 | -8 | SW | 3 | c | 45 | 85 | 7 | 8 | – | – | 7.8 | 7.8 | 1500 |
| 17 | Blacksod Point | 18 | 1028.9 | -4 | ESE | 5 | q | 49 | 75 | 7 | – | 8 | – | 0 | 4.6 | – |
| 18 | Malin Head | 52 | 1031.7 | -4 | S | 4 | b | 42 | 95 | 7 | – | – | – | 0 | 0 | – |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1032.3 | 0 | S | 5 | o/pr | 47 | 95 | 7 | 6 | – | – | 10 | 10 | 800 |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 22nd December

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1039.6 | +10 | E'N | 3 | c | 39 | 85 | 6 | 5 | – | – | 10 | 10 | 2500 | 1 | * |
| | Croydon | 1039.2 | +10 | E | 1 | c | 37 | 85 | 6 | 5 | – | – | 10 | 10 | 2500 | 1 | * |
| | S. Farnborough | 1039.3 | +8 | NE | 1 | o | 36 | 95 | 4 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| | Winchester | 1039.3 | +6 | N | 2 | c | 35 | 95 | 6 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| | Boscombe Down | 1039.4 | +8 | N | 1 | c | 34 | 95 | 5 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| | Calshot, (S'thmtn) | 1038.6 | +6 | NNE | 2 | c | 37 | 85 | 7 | 8 | – | – | 9 | 9 | 2500 | 0 | 1 |
| | Dungeness | * | * | E'S | 3 | c | * | * | 6 | 8 | – | * | 10 | 10 | 2500 | * | 2 |
| | Lympne | 1039.5 | +12 | E'N | 3 | c | 34 | 85 | 5 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| 2 | Shoeburyness | 1039.8 | +10 | E'S | 4 | c | 38 | 95 | 8 | 5 | – | – | 10 | 10 | 2500 | 0 | * |
| | Felixstowe | 1040.3 | +10 | SE | 3 | c | 38 | 75 | 6 | 5 | – | – | 10 | 10 | 2500 | 0 | 2 |
| | Gorleston | 1040.4 | +8 | SSE | 2 | c | 37 | 85 | 7 | 5 | – | – | 10 | 10 | 2500 | 0 | 2 |
| | Cranwell | 1040.6 | +6 | – | 0 | c | 34 | 95 | 5 | 5 | – | – | 10 | 10 | 1500 | 1 | * |
| 3 | Birmingham | 1040.2 | +2 | SE | 2 | o | 36 | 75 | 7 | 5 | – | – | 10 | 10 | 800 | 1 | * |
| | Upper Heyford | 1040.0 | +6 | NEE | 2 | c | 35 | 95 | 6 | 5 | – | – | 10 | 10 | 800 | 0 | * |
| | Leafield | 1039.5 | +2 | ENE | 2 | c | 34 | 85 | 7 | 5 | – | – | 10 | 10 | 2500 | 1 | * |
| 4 | Ross-on-Wye | 1039.1 | +6 | SSE | 2 | o | 35 | 75 | 6 | 5 | – | – | 10 | 10 | 800 | 1 | * |
| 5 | Portland Bill | 1038.6 | +2 | NE | 3 | c | 38 | 75 | 7 | 4 | 4 | – | 7.8 | 10 | 2500 | 0 | 3 |
| | Plymouth | 1037.0 | +10 | E | 4 | b | 36 | 85 | 6 | – | – | – | 0 | 0 | – | 0 | 1 |
| | Falmouth | 1037.4 | +6 | N | 2 | bc | 37 | 85 | 6 | 5 | – | – | 4.6 | 4.6 | 4000 | 0 | 2 |
| | Scilly (St. Mary's) | 1036.3 | +2 | SSE | 3 | c/r | 45 | 85 | 7 | 8 | – | – | 9+ | 9+ | 4000 | 0 | 2 |
| | Guernsey | 1036.7 | +8 | E | 3 | c | 42 | 85 | 7 | 5 | 1 | – | 7.8 | 10 | 2500 | 0 | 3 |
| 6 | Pembroke | 1036.6 | 0 | ESE | 3 | c | 42 | 95 | 7 | 5 | 6 | – | 7.8 | 10 | 4000 | 0 | 2 |
| 7 | Holyhead | 1037.6 | +2 | S | 3 | c | 40 | 85 | 6 | 5 | – | – | 9+ | 9+ | 2500 | 1 | 1 |
| | Chester (Sealand) | 1039.4 | +6 | SSE | 2 | c | 36 | 85 | 5 | 5 | – | – | 9 | 9 | 2500 | 1 | * |
| 8 | L'pool (Bidston) | 1039.3 | +4 | SE | 2 | o | 36 | 85 | 7 | 5 | – | – | 10 | 10 | 1500 | 0 | * |
| 9 | Harrogate | 1039.8 | 0 | SW | 1 | f | 33 | 95 | 2 | 5 | – | – | 10 | 10 | <150 | 1 | * |
| 10 | Spurn Head | 1039.8 | +2 | WSW | 2 | c | 39 | 85 | 7 | 4 | 2 | – | 4.6 | 9+ | 2500 | 0 | 2 |
| | Catterick | 1039.9 | +6 | SSW | 3 | f | 32 | 95 | 3 | 5 | – | – | 10 | 10 | <150 | 1 | * |
| | Tynemouth | 1037.9 | 0 | SW | 2 | b | 35 | 85 | 6 | – | – | – | 0 | 0 | – | 4 | 2 |
| 11 | Inchkeith | 1036.2 | 0 | SW | 2 | bc | 41 | 75 | 7 | 5 | – | – | 4.6 | 4.6 | 2500 | 0 | 1 |
| | Leuchars | 1035.3 | -2 | SW | 4 | bc | 39 | 75 | 6 | 5 | – | – | 4.6 | 4.6 | 4000 | 1 | * |
| 12 | Renfrew | 1036.0 | 0 | SSE | 4 | c | 40 | 85 | 6 | 5 | – | – | 10 | 10 | 2500 | 1 | * |
| | Eskdalemuir | 1037.0 | 0 | SSW | 2 | o | 33 | 95 | 4 | 5 | – | – | 10 | 10 | 800 | 1 | * |
| 13A | Tiree | 1029.8 | 0 | S'E | 7 | bc | 45 | 85 | 6 | 5 | 7 | – | 4.6 | 4.6 | 2500 | 0 | 4 |
| 13B | Stornoway | 1028.8 | -8 | S | 8 | c | 47 | 95 | 6 | 4 | – | – | 10 | 10 | 2500 | 1 | 5 |
| 15 | Dalwhinnie | 1033.7 | -4 | ~~ENE~~ S | 3 | c | 39 | 85 | 6 | 4 | 6 | – | 4.6 | 10 | 800 | 1 | * |
| | Aberdeen | 1034.0 | -2 | SW | 3 | b | 40 | 75 | 8 | – | – | – | 0 | 0 | – | 1 | 1 |
| | Wick | 1029.6 | -6 | SSW | 4 | bc | 44 | 85 | 8 | 5 | – | – | 2.3 | 2.3 | 2500 | 1 | 3 |
| 16 | Lerwick | 1029.2 | -8 | S'W | 3 | b | 45 | 85 | 7 | 5 | – | – | 1 | 1 | 2500 | 0 | * |
| 17 | Blacksod Point | 1028.8 | 0 | SE | 6 | q | 49 | 85 | 7 | – | 7 | – | 0 | 10 | – | 0 | 4 |
| 18 | Malin Head | 1031.2 | +2 | SSE | 4 | bc | 42 | 95 | 7 | 5 | – | – | 2.3 | 2.3 | 4000 | 0 | 2 |
| | Aldergrove | 1036.2 | 0 | SES | 3 | b | 39 | 85 | 7 | – | – | – | 0 | 0 | – | 1 | * |
| | Donaghadee | 1035.8 | 0 | SW | 3 | b | 41 | 85 | 7 | 5 | – | – | 1 | 1 | 1500 | 0 | 2 |
| 19 | Birr Castle | 1033.0 | -2 | SE | 1 | b | 40 | 95 | 8 | – | 4 | – | 0 | 1 | – | 1 | * |
| 20 | Valentia Obsy.† | 1031.9 | +8 | SSE | 4 | bc | 48 | 85 | 8 | 8 | – | 1 | 2.3 | 4.6 | 2500 | 1 | * |
| | Roches Point | 1034.3 | +2 | SW | 3 | bc | 47 | 85 | 8 | 5 | – | – | 4.6 | 4.6 | 2500 | 0 | 3 |

### PAST 24 HOURS.

| District | Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F. (32) | Temperature Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 21st. Hrs. (36) |
|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 41 | 38 | 35 | – | – | 0.0 |
| | Croydon | 40 | 34 | 29 | – | – | 0.0 |
| | S. Farnborough | 39 | 33 | 27 | – | – | 0.0 |
| | Winchester | 40 | 34 | 35 | – | – | 0.0 |
| | Boscombe Down | 40 | 33 | 33 | – | – | * |
| | Calshot, (S'thmtn) | 42 | 35 | 31 | – | – | 0.0 |
| | Dungeness | 45 | 33 | * | – | – | * |
| | Lympne | 37 | 30 | 27 | – | – | 0.0 |
| 2 | Shoeburyness | 41 | 34 | 33 | – | – | 0.0 |
| | Felixstowe | 41 | 36 | 35 | – | – | 0.0 |
| | Gorleston | 41 | 37 | 36 | – | – | 0.0 |
| | Cranwell | 34 | 33 | 30 | 0.1 | – | 0.0 |
| 3 | Birmingham | 38 | 35 | 33 | – | – | 0.0 |
| | Upper Heyford | 38 | 35 | 33 | Tr | – | * |
| | Leafield | 36 | 33 | 32 | 0.1 | – | 0.0 |
| 4 | Ross-on-Wye | 37 | 35 | 34 | Tr | – | 0.0 |
| 5 | Portland Bill | 42 | 38 | * | – | – | * |
| | Plymouth | 44 | 36 | 32 | – | – | 5.2 |
| | Falmouth | 48 | 37 | * | – | – | 2.4 |
| | Scilly (St. Mary's) | 48 | 41 | * | Tr | Tr. | 0.1 |
| | Guernsey | 45 | 41 | 36 | 0.1 | – | 0.0 |
| 6 | Pembroke | 47 | 42 | * | – | – | 0.4 |
| 7 | Holyhead | 48 | 39 | 33 | – | – | 0.0 |
| | Chester (Sealand) | 39 | 29 | 25 | – | – | 0.0 |
| 8 | L'pool (Bidston) | 40 | 33 | 31 | – | – | 0.0 |
| 9 | Harrogate | 40 | 30 | 24 | – | – | 0.0 |
| 10 | Spurn Head | 41 | 39 | * | Tr | – | 1.0 |
| | Catterick | 40 | 28 | 27 | 0.2 | Tr. | * |
| | Tynemouth | 41 | 33 | 29 | – | – | * |
| 11 | Inchkeith | 43 | 38 | 29 | 0.1 | – | 0.0 |
| | Leuchars | 44 | 30 | 22 | – | – | 0.2 |
| 12 | Renfrew | 41 | 37 | 36 | – | – | 0.0 |
| | Eskdalemuir | 40 | 29 | 26 | 0.1 | – | 0.1 |
| 13A | Tiree | 47 | 44 | 41 | – | – | 0.0 |
| 13B | Stornoway | 48 | 45 | * | – | – | 0.7 |
| 15 | Dalwhinnie | 36 | 33 | 32 | – | Tr. | 1.0 |
| | Aberdeen | 44 | 37 | 30 | – | – | 0.9 |
| | Wick | 44 | 37 | * | – | – | * |
| 16 | Lerwick | 46 | 43 | * | – | Tr. | 0.0 |
| 17 | Blacksod Point | 49 | 47 | * | – | – | * |
| 18 | Malin Head | 47 | 39 | * | – | – | 4.1 |
| | Aldergrove | 46 | 38 | 33 | Tr | – | 0.1 |
| | Donaghadee | 48 | 41 | * | 0.4 | – | * |
| 19 | Birr Castle | 45 | 35 | 24 | – | Tr | 5.8 |
| 20 | Valentia Obsy.† | 48 | 46 | 42 | 2 | 0.6 | 0.0 |
| | Roches Point | 47 | 46 | * | – | Tr. | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon (24 hrs. ended 9h.) | Weather Night (24 hrs. ended 9h.) | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew | 18 | 039 | 039 om. | c3 | 41 | 38 | 35 | – | – | 0.0 | * | * | 4 |
| Croydon | 217 | cm m | cm | cm m. | 40 | 34 | 29 | – | – | 0.0 | * | * | 5 |
| Greenwich (Royal Observatory) | 149 | 0m | 0m | c | 40 | 37 | 32 | – | – | 0.0 | 81 | 82 | 5 |
| City (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Westminster (St. James' Park) | 27 | * | * | * | 42 | 34 | 38 | – | – | 0.0 | 78 | 75 | * |
| Regents Pk. (Botanic Gardens) | 166 | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Camden Square | 110 | c | o | * | 40 | 37 | 33 | – | – | * | * | 85 | * |
| Kensington | 80 | co | co | * | 40 | 37 | 32 | – | – | 0.0 | At 18h. 81 | 82 | * |
| Hampstead Observatory | 450 | 0m | 0m | 0m | 38 | 33 | 29 | – | – | 0.0 | * | 79 | * |

**Atmospheric Pollution.** Milligrams of solid impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 22nd.

| South Kensington Max. | Time. | Min. | Time. | Kew Observatory Max. | Time. | Min. | Time. |
|---|---|---|---|---|---|---|---|
| 1.1 | 12h 21st | <0.3 | 1-6h 22nd | 0.8 | 20h 21st | 0.1 | 2h 22nd |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 21st December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Th. G.M.T. 22nd December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day. mm. | Rainfall Night. mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris | 1034.3 | NNE | 4 | b | 30 | 1037.8 | NNE | 4 | o | 30 | 34 | 27 | – | – |
| Brussels | 1036.0 | NE | 4 | o | 30 | 1039.5 | E | 4 | o | 32 | 30 | 30 | – | – |
| Berlin | 1040.0 | – | 0 | o | 28 | 1040.5 | NW | 1 | o/d | 32 | 34 | 30 | Tr. | Tr. |
| Zurich | 1032.0 | S | 2 | 3 | 18 | 1035.5 | S | 1 | 3 | 21 | 19 | 18 | Tr. | – |
| Rome | | | | | | 1028.2 | NE'N | 3 | bc | 41 | | 41 | | – |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13–18 | 9 | 47–54 |
| 1 | 1–3 | 5 | 19–24 | 10 | 55–63 |
| 2 | 4–7 | 6 | 25–31 | 11 | 64–75 |
| 3 | 8–12 | 7 | 32–38 | 12 | 75 |
| | | 8 | 39–46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | | Objects not visible at |
|---|---|---|
| 0 | Dense fog | 55 yards. |
| 1 | Thick fog | 220 " |
| 2 | Fog | 550 " |
| 3 | Moderate fog | 1,100 " |
| 4 | Mist or haze | 1¼ miles. |
| 5 | Poor visibility | 2½ " |
| 6 | Moderate " | 6½ " |
| 7 | Good " | 12½ " |
| 8 | Very good " | 31 " |
| 9 | Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | | | |
|---|---|---|---|
| 0 | Calm. | 5 | Very rough. |
| 1 | Smooth. | 6 | High. |
| 2 | Slight. | 7 | Very high. |
| 3 | Moderate. | 8 | Precipitous. |
| 4 | Rough. | 9 | Confused. |

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† The observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 23rd December 1931.

No. 25598

| District | Stations. (For heights see p. 4.) | OBSERVATIONS at 13h. G.M.T. 22nd December | | | | | | | | | | | | | | OBSERVATIONS at 18h. G.M.T. 22nd December | | | | | | | | | | | | | | | PAST 24 HOURS. Weather. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Barom. at M.S.L. mb. | Change in 3 hours. | Wind. Direc. | Wind. Force 0-12 | Weather. | Temp. °F. | Humid. % | Visibility 0-9 | Cloud. Form. Low. | Cloud. Form. Med. | Cloud. Form. High. | Cloud. Amount. Low 0-10 | Cloud. Amount. Total 0-10 | Height of Base (feet) | Barom. at M.S.L. mb. | Change in 3 hours. | Wind. Direc. | Wind. Force 0-12 | Weather. | Temp. °F. | Humid. % | Visibility 0-9 | Cloud. Form. Low. | Cloud. Form. Med. | Cloud. Form. High. | Cloud. Amount. Low 0-10 | Cloud. Amount. Total 0-10 | Height of Base (feet) | State of Ground. 0-9 | Sea. 0-9 | 7h.–13h. 22nd | 13h.–18h. 22nd | 18h.–1h. 22nd–23rd | 1h.–7h. 23rd |
| | | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) | (23) | (24) | (25) | (26) | (27) | (28) | (29) | (30) | (37) | (38) | (39) | (40) |
| 1 | London (Kew) ... | 1040·3 | -4 | SE | 3 | o | 38 | 75 | 5 | 5 | - | - | 10 | 10 | 1500 | 1041·4 | +12 | E | 1 | o | 36 | 85 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | * | o3o | o3o | o3o | cmo |
| | Croydon ... | 1040·1 | -4 | SE'E | 3 | c | 37 | 75 | 6 | 5 | - | - | 10 | 10 | 1500 | 1040·9 | +8 | SE'S | 2 | c | 34 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * | cmo | cmo | cmo | cmo |
| | S. Farnborough | 1040·2 | -4 | E'N | 2 | o | 36 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1041·4 | +14 | S'W | 1 | o | 34 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * | omcmo | omo | omo | omo |
| | Winchester ... | 1040·2 | -6 | E'S | 2 | c | 36 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1041·4 | +10 | ENE | 1 | c | 34 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * | cmoc | c | c | cmo |
| | Boscombe Down | 1040·6 | -2 | ESE | 2 | c | 36 | 75 | 6 | 5 | - | - | 10 | 10 | 1500 | 1040·7 | +6 | SE | 2 | c | 32 | 85 | 6 | 5 | - | - | 9+ | 9+ | 1500 | 0 | * | cmo | cmo | cmo | cmo |
| | Calshot, S'thmtn | 1040·3 | +2 | E'S | 3 | c | 37 | 75 | 6 | 5 | - | - | 10 | 10 | 2500 | 1040·6 | +6 | NE | 3 | c | 36 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | 1 | cmo | cmo | c | c |
| | Dungeness ... | * | * | ESE | 2 | c | * | * | 6 | 5 | - | - | 10 | 10 | 1500 | * | * | ESE | 2 | c | * | * | 6 | 5 | - | * | 10 | 10 | 1500 | * | o | o | o | * | o |
| | Lympne ... | 1040·3 | -6 | E'S | 3 | o | 35 | 85 | 6 | 5 | - | - | 10 | 10 | 800 | 1040·7 | +2 | ESE | 2 | o | 33 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | * | como | omo | omo | omo |
| 2 | Shoeburyness | 1040·8 | -6 | E'S | 3 | c | 38 | 85 | 6 | 5 | - | - | 9+ | 9+ | 1500 | 1041·4 | +8 | ESE | 2 | o | 37 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 0 | * | ccmo | cmo | o | c |
| | Felixstowe ... | 1041·1 | -2 | SE'S | 2 | c | 38 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1041·4 | +6 | SE | 3 | c | 38 | 75 | 7 | 5 | - | - | 10 | 10 | 800 | 0 | 1 | cz3o | c | c | cz3o |
| | Gorleston ... | 1040·9 | -2 | SSE | 1 | c | 38 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 1041·7 | +4 | S'E | 3 | c | 38 | 85 | 7 | 4 | - | - | 10 | 10 | 2500 | 0 | 2 | c | c | c | c |
| | Cranwell ... | 1040·8 | -8 | SE'S | 2 | c | 36 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1040·9 | +8 | SSW | 3 | c | 35 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * | cmoc | ccmo | cmow | cmbx |
| 3 | Birmingham ... | 1040·3 | -2 | SSE | 2 | c | 36 | 75 | 6 | 5 | - | - | 9 | 9 | 2500 | 1040·6 | +4 | SSW | 2 | c | 34 | 75 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * | oc | c | c | cbc |
| | Upper Heyford | 1040·9 | -2 | E'S | 1 | c | 36 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1041·2 | +10 | SSE | 2 | c | 35 | 75 | 6 | 5 | - | - | 10 | 10 | 1500 | 0 | * | cmo | cmo | cbcw | cwmo |
| | Leafield ... | 1040·3 | 0 | ESE | 2 | c | 35 | 75 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1040·6 | +6 | SSE | 2 | o | 34 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * | c | co | c | c |
| 4 | Ross-on-Wye ... | 1039·6 | 0 | E | 2 | c | 37 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 1040·0 | +6 | S'E | 2 | o | 35 | 75 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * | omocmo | como | omo | omo |
| 5 | Portland Bill ... | 1038·9 | -6 | NE | 4 | c | 41 | 75 | 6 | 4 | - | - | 10 | 10 | 2500 | 1039·5 | +10 | NE | 3 | c | 41 | ~~85~~ 75 | 7 | 4 | - | - | 10 | 10 | 2500 | 0 | 3 | c,cz3o | c | c | c |
| | Plymouth ... | 1038·8 | +6 | E | 4 | b | 42 | 75 | 7 | - | - | - | 0 | 0 | - | 1039·4 | +14 | E | 3 | c | 39 | 85 | 6 | 5 | - | - | 7-8 | 7-8 | 5700 | 0 | 1 | bmo | bccmo | bcmc | cmo |
| | Falmouth ... | 1038·3 | -8 | SE'E | 4 | bc | 46 | 75 | 6 | 1 | 3 | - | 2-3 | 4-6 | 4000 | 1038·5 | +2 | SE'E | 3 | c | 45 | 65 | 6 | 5 | 2 | - | 7-8 | 10 | 4000 | 0 | 2 | bcmo | bccmo | cq | cq |
| | Scilly (St. Mary's) | 1037·2 | 0 | S | 2 | c | 47 | 75 | 7 | 7 | - | - | 7-8 | 7-8 | 4000 | 1038·0 | +8 | S'E | 3 | c | 44 | 75 | 7 | 2 | - | - | 7-8 | 7-8 | 4000 | 0 | 1 | c | c | c | c |
| | Guernsey ... | 1037·7 | -2 | SE | 3 | c | 40 | 85 | 5 | 8 | 6 | - | 4-6 | 7-8 | 2500 | 1039·1 | +14 | SE | 2 | o | 39 | 85 | 5 | 5 | - | - | 10 | 10 | 1500 | 0 | 3 | cmcz | com | cbcc | co |
| 6 | Pembroke ... | 1038·3 | 0 | SE | 3 | c | 43 | 95 | 6 | 5 | 6 | - | 7-8 | 9+ | 4000 | 1036·8 | 0 | SE | 3 | c | 44 | 95 | 7 | 5 | 6 | - | 4-6 | 7-8 | 4000 | 0 | 2 | cmo | c | c | c |
| 7 | Holyhead ... | 1038·2 | -2 | ~~SSE~~ | 4 | c | 41 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 1037·3 | +2 | SSE | 5 | m | 41 | 85 | 4 | 5 | - | - | 10 | 10 | 1500 | 1 | 2 | cmo | cmo | cmmo | cmq |
| | Chester (Sealand) | 1039·7 | -6 | S'E | 3 | bc | 37 | 75 | 6 | 5 | - | - | 4-6 | 4-6 | 2500 | 1039·2 | 0 | SE'S | 2 | m | 32 | 85 | 4 | - | - | - | 0 | 0 | - | 1 | * | cbczo | bcbmx | bmx | bmxc |
| 8 | L'pool (Bidston) | 1039·2 | -4 | SSE | 4 | b | 36 | 75 | 6 | 5 | - | - | 1 | 1 | 2500 | 1038·2 | 0 | SSE | 4 | b | 33 | 85 | 6 | - | - | - | 0 | 0 | - | 0 | * | ccb | b | b | bxb |
| 9 | Harrogate ... | 1040·0 | -6 | SSW | 1 | o | 34 | 85 | 5 | 5 | - | - | 10 | 10 | 2500 | 1039·7 | 0 | SSW | 1 | o | 34 | 85 | 5 | 5 | - | - | 10 | 10 | 2500 | 1 | * | ofoc | c | cbc | bcx |
| 10 | Spurn Head ... | 1040·2 | 0 | SSW | 3 | c | 40 | 75 | 7 | 5 | 7 | - | 7-8 | 9+ | 4000 | 1040·3 | +2 | SW | 3 | c | 36 | 85 | 7 | 5 | - | - | 9+ | 9+ | 5700 | 0 | 2 | c | bc | bc | cbcx |
| | Catterick ... | 1039·6 | -10 | SW | 4 | o | 35 | 85 | 5 | 5 | - | - | 10 | 10 | 1500 | 1038·6 | -6 | S | 3 | m | 35 | 85 | 4 | 5 | - | - | 10 | 10 | 1500 | 1 | * | fomo | ocmo | omcmo | bcxc |
| | Tynemouth ... | 1038·5 | -4 | SSW | 2 | m | 37 | 85 | 4 | 5 | - | - | 7-8 | 7-8 | 800 | 1037·6 | -6 | SW | 3 | bc | 35 | 85 | 5 | 5 | - | - | 4-6 | 4-6 | 1500 | 4 | 1 | b,ocm | o,bcm | bcmmo | bcc |
| 11 | Inchkeith ... | 1036·0 | -4 | SSW | 4 | bc | 40 | 85 | 6 | 5 | 5 | - | 2-3 | 2-3 | 1500 | 1035·0 | -4 | SW | 3 | bc | 40 | 85 | 7 | 5 | - | - | 2-3 | 2-3 | 1500 | 0 | 2 | bc | bc | bcc | cir |
| | Leuchars ... | 1035·5 | -8 | SW | 3 | b | 38 | 75 | 6 | 1 | - | - | Tr | Tr | 4000 | 1033·5 | -6 | SSW | 2 | c | 40 | 85 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * | bcbmo | bccmo | cmo | cmqr.r. |
| 12 | Renfrew ... | 1035·3 | -14 | S | 3 | c | 41 | 75 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 1033·6 | -10 | S | 3 | c | 40 | 85 | 6 | 5 | - | - | 7-8 | 7-8 | 5700 | 1 | * | cbccmo | cbccmo | cmc | corr |
| | Eskdalemuir ... | 1037·2 | -6 | S'W | 3 | c | 35 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 1036·4 | +2 | S | 4 | o | 34 | 85 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | * | oc | co | o | ocrr |
| 13A | Tiree ... | 1028·5 | -10 | S'E | 7 | c | 46 | 85 | 7 | 5 | 2 | - | 9 | 10 | 2500 | 1026·6 | -8 | S | 7 | c | 47 | 85 | 7 | 5 | 1 | - | 9+ | 10 | 2500 | 0 | 4 | bcc | c | irir | irirR |
| 13B | Stornoway ... | 1024·2 | -8 | S | 8 | d | 47 | 95 | 6 | 4 | 2 | - | 4-6 | 10 | 1500 | 1022·8 | -4 | S | 7 | ir | 47 | 95 | 6 | 9 | 7 | - | 7-8 | 10 | 1500 | 1 | 4 | cpod | cirq | orr | crrpr |
| 15 | Dalwhinnie ... | 1036·3 | 0 | SW | 3 | c | 39 | 85 | 7 | 4 | 3 | - | 4-6 | 9 | 800 | 1031·9 | 0 | S | 3 | c | 40 | 85 | 6 | 4 | 5 | - | 4-6 | 9 | 800 | 0 | * | c | c | . | r |
| | Aberdeen ... | 1033·2 | -16 | SSW | 2 | b | 40 | 85 | 6 | - | - | - | 0 | 0 | - | 1031·8 | -6 | SSW | 2 | c | 38 | 85 | 6 | 5 | . | - | 9 | 9 | 7200 | 1 | 1 | bx | bcz3o | cbcz3oc | c |
| | Wick ... | 1027·7 | -10 | SSW | 6 | bc | 46 | 85 | 8 | 5 | 1 | 8 | 2-3 | 2-3 | 4000 | 1026·4 | -14 | SSW | 6 | c | 45 | 85 | 8 | 5 | 7 | 8 | 4-6 | 10 | 2000 | 1 | 4 | bc | bcc | crorc | c |
| 16 | Lerwick ... | 1027·3 | -14 | S'W | 4 | c | 46 | 85 | 7 | 5 | - | - | 7-8 | 7-8 | 1500 | 1025·0 | -12 | S'W | 4 | c | 46 | 85 | 7 | 5 | 7 | - | 4-6 | 9 | 800 | 0 | * | bcc | c | cir | cir |
| 17 | Blacksod Point | 1028·1 | -16 | SSE | 7 | q | 50 | 95 | 7 | - | 5 | - | 0 | 10 | - | 1025·4 | -8 | SSE | 7 | r | 51 | 95 | 7 | 9 | - | - | 9+ | 9+ | <150 | 0 | 5 | c | ir | [illegible] | [illegible] |
| 18 | Malin Head ... | 1028·4 | -16 | S | 7 | c | 45 | 85 | 7 | 5 | 9 | - | 2-3 | 9 | 5700 | 1028·2 | +4 | S | 6 | c | 46 | 95 | 7 | 5 | 4 | - | 2-3 | 7-8 | 5700 | 0 | 3 | bcc | c | ce | cdrdrmo |
| | Aldergrove ... | 1034·4 | -10 | S'E | 4 | bc | 44 | 75 | 6 | - | - | 6 | 0 | 4-6 | - | 1033·3 | -2 | S | 4 | c | 43 | 85 | 6 | - | 3 | 6 | 0 | 7-8 | - | 1 | * | bmo | bccmo | cmbc | bcorr |
| | Donaghadee ... | 1035·0 | -6 | WSW | 2 | bc | 45 | 85 | 7 | 5 | 3 | - | 2-3 | 4-6 | 2500 | 1033·8 | -4 | W | 2 | c | 45 | 85 | 7 | 5 | - | - | 7-8 | 7-8 | 1500 | 0 | 2 | bbc | bcc | c | corr |
| 19 | Birr Castle ... | 1033·4 | -10 | S | 3 | c | 48 | 85 | 7 | - | - | 6 | 0 | 7-8 | - | 1031·7 | +2 | S | 2 | c | 44 | 85 | 7 | - | 4 | 6 | 0 | 7-8 | - | 1 | * | bbc | c | c | crr |
| 20 | Valentia Obsy. | 1032·0 | -6 | S'E | 5 | c | 51 | 75 | 8 | 8 | 7 | 1 | 4-6 | 7-8 | 2500 | 1031·2 | +2 | S | 5 | c | 50 | 85 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 | bcc | c | cpo | crrcr. |
| | Roches Point ... | 1035·1 | 0 | SW | 3 | bc | 50 | 75 | 8 | 5 | - | - | 2-3 | 2-3 | 2500 | 1034·3 | +4 | SW | 5 | bc | 48 | 85 | 8 | 5 | - | - | 4-6 | 4-6 | 2500 | 0 | 5 | bc | bc | bcc | c |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/so, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
so/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight: repetition of letters indicates continuity: thus R, heavy rain. ro, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ⦶, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/10 of the sky.
"9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

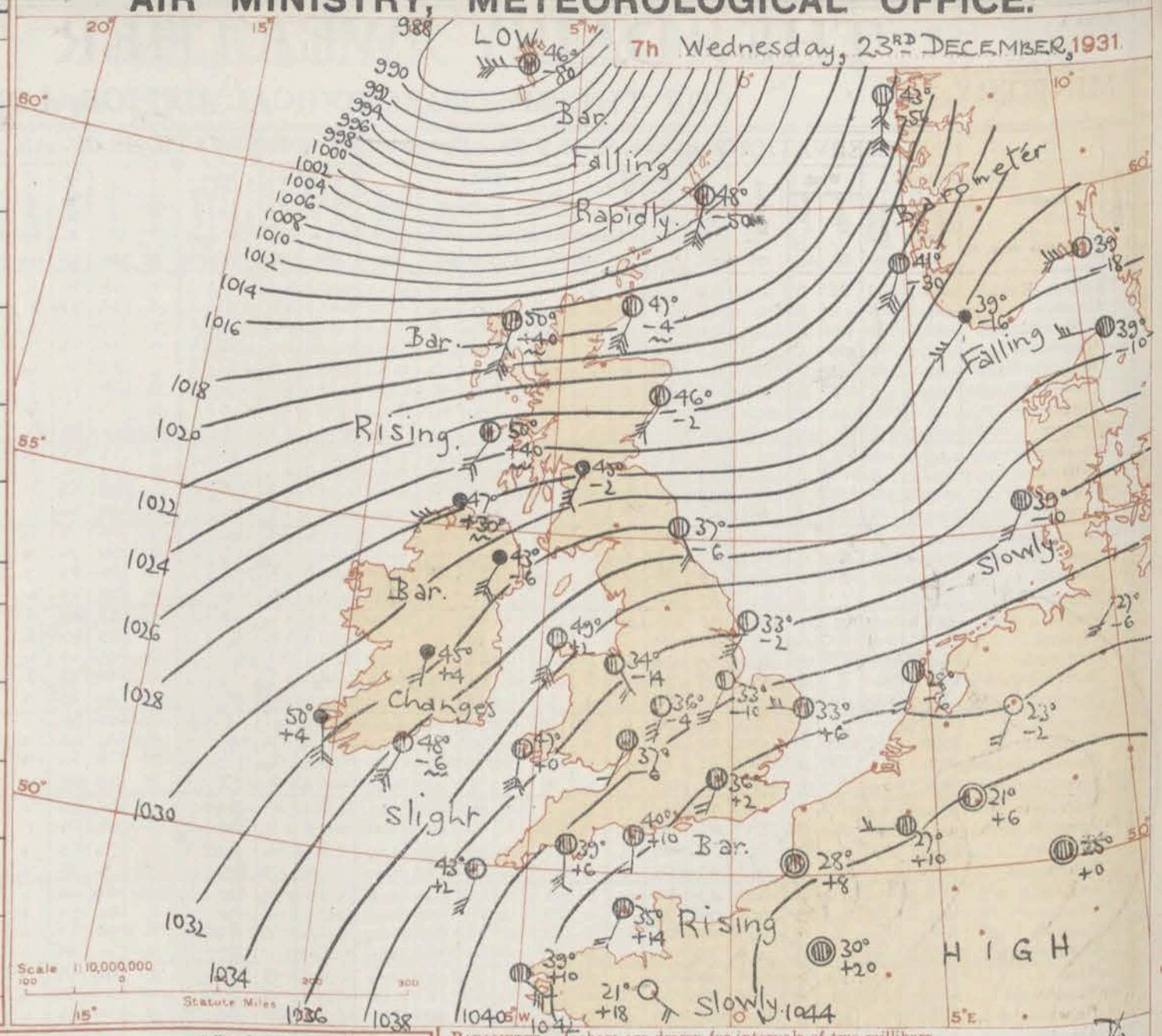
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for ...22nd December.....1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 21st. to 9h. 22nd. | Temperature. Max. 9h.—17h. ...22nd... | Rainfall. Night. 17h. 21st. to 9h. 22nd | Rainfall. Day. 9h.—17h. ...22nd.. | Sunshine. Sunrise to Sunset. ...22nd... |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | o | o | 30 | 35 | - | - | 0.0 |
| | Bournemouth | o | o | 35 | 39 | - | - | 0.0 |
| | Ventnor ... | o3 | o3 | 36 | 38 | - | - | 0.0 |
| | Southsea ... | o2 | o2 | 35 | 38 | - | - | 0.0 |
| | Bognor Regis | o | o | 32 | 37 | - | - | 0.0 |
| | Littlehampton | o | o | 30 | 37 | - | - | 0.0 |
| | Worthing ... | c | co | 32 | 36 | - | - | 0.0 |
| | Brighton ... | oc | o | 33 | 36 | - | - | 0.0 |
| | Eastbourne† | o | o | 33 | 38 | - | - | 0.0 |
| | Hastings† ... | o | o | 33 | 38 | - | - | 0.0 |
| | Folkestone ... | o | o | 34 | 37 | - | - | 0.0 |
| | Dover... ... | o | o | 35 | 37 | - | - | 0.0 |
| | Deal ... ... | o | o | 35 | 38 | - | - | 0.0 |
| | Ramsgate ... | o | oc | 35 | 38 | - | - | 0.0 |
| | Margate ... | c | c | 36 | 37 | - | - | 0.0 |
| 2 | Southend ... | o | o | 37 | 38 | - | - | 0.0 |
| | Maldon ... | o | o | 37 | 39 | - | - | 0.0 |
| | Clacton-on-Sea | c | c | 38 | 39 | - | - | 0.0 |
| | Dovercourt ... | oc | oc | 37 | 39 | - | - | 0.0 |
| | Lowestoft ... | c | c | 36 | 36 | - | - | 0.0 |
| | Skegness ... | om° | om° | 38 | 39 | Trace | - | 0.0 |
| | Mablethorpe | om° | om° | 31 | 38 | - | - | 0.0 |
| | Cleethorpes ... | om | o | 30 | 39 | Trace | - | 0.0 |
| 3 | Leamington S. | o | o | 35 | 38 | - | - | 0.0 |
| 4 | Cheltenham† | omco | ocom | 34 | 38 | - | - | 0.0 |
| 5 | Bath ... ... | c | cbcb | 36 | 38 | - | - | 0.0 |
| | Weymouth ... | c | c | 36 | 40 | - | - | 0.0 |
| | Jersey ... | c3 | c3 | 34 | 36 | - | - | 0.0 |
| | Torquay ... | cbc | c | 39 | 44 | - | - | 1.0 |
| | Penzance ... | b | bcm | 36 | 47 | - | - | 3.0 |
| | St. Ives ... | b | b | 38 | 46 | - | - | 5.7 |
| | Bude ... ... | xb | bbco | 31 | 40 | - | - | 3.0 |
| | Ilfracombe ... | b | bbc | 33 | 41 | - | - | 3.1 |
| 6 | Aberystwyth | cbcox | bcom | 31 | 38 | - | - | 4.9 |
| 7 | Llandudno ... | bbc | cbcb | 34 | 40 | - | - | 3.2 |
| | Colwyn Bay... | b | b | 32 | 41 | - | - | 4.8 |
| | Rhyl ... ... | xbbc | bcb | 30 | 40 | - | - | 3.3 |
| 8 | Wallasey ... | cbcb | b | 35 | 38 | - | - | 2.8 |
| | Southport‖ ... | o | ocbcb | 30 | 37 | - | - | 0.0 |
| | Blackpool ... | o | o | 31 | 37 | - | - | 0.0 |
| | Morecambe ... | co | co | 33 | 37 | - | - | 0.0 |
| 9 | Ilkley... ... | mc | c | 28 | 36 | - | - | 0.0 |
| 10 | Berwick-on-T. | b | bc | 31 | 37 | - | - | 2.6 |
| 11 | Dunbar ... | om° | bcx | 33 | 40 | - | - | 5.2 |
| 12 | Douglas ... | c | co | 40 | 43 | - | - | 0.0 |

† Max. Temp. for period 21h yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

# AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
◯ Clear sky. ◔ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. ⚡ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 23rd Dec., 1931. |
|---|---|
| 1. S.E. England<br>2. E. England<br>3. E. Midlands | Moderate south or southwest wind; cloudy; rather cold, temperature rising. |
| 4. W. Midlands<br>5. S.W. England<br>6. South Wales | Moderate or fresh south or southwest wind; cloudy; rather low to moderate temperature. |
| 7. North Wales<br>8. N.W. England<br>9. N. Midlands<br>10. N.E. England | Fresh south or southwest wind, perhaps strong locally at first; cloudy; perhaps occasional rain; becoming milder. |
| 11. S.E. Scotland<br>12. S.W. Scotland & Isle of Man | Fresh or strong south or southwest wind; dull or cloudy; occasional rain at first, tending to improve; rather mild. |
| 13. A. W. Scotland<br>B. N.W. Scotland.<br>14. Mid-Scotland<br>15. N.E. Scotland<br>16. Orkneys and Shetlands. | Gale or strong wind from between south and west, moderating; dull or cloudy; occasional rain; mild. |
| 17. N.W. Ireland<br>18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland | Fresh southwest or south wind, strong locally; mainly cloudy; occasional rain, followed by temporary improvement; rather mild. |

### GENERAL INFERENCE.

A large anticyclone is centred over France and Germany. An intense depression near the Faeroes will move eastwards, and other disturbances are likely to approach from the Atlantic. Weather will be mainly cloudy generally, with occasional rain in the West and North, stormy at first in the extreme North, mainly dry in the Southeast.

### FURTHER OUTLOOK.

Unsettled and mainly mild in the West and North; mainly dry in the Southeast but probably milder than of late.

Times of issue of Gale Warnings.

South Cone at 0810 on 22nd in 13B, 15, 16.
South Cone at 1405 on 22nd in 13A, 17, 20.
~~South Cone at 0850 on 23rd in 11.~~

Forecasts issued at 1000 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press Kingsway, W.C.2.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

**EXPLANATION OF CHART.**

METER. Isobars are drawn for intervals of four millibars.

Arrows fly with the wind. Number of feathers indicate Beaufort Force. Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 23rd December 1931.

No. 26598

### OBSERVATIONS at 1 hr. G.M.T. 23rd December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1041.7 | 0 | SW'W | 1 | C | 33 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot, (S'thmtn) | 8 | 1041.2 | 0 | NE | 2 | C | 37 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1041.8 | +2 | SW | 2 | 0 | 33 | 85 | 5 | 5 | - | - | 10 | 10 | 800 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1041.5 | 0 | SW'W | 2 | C | 38 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Cranwell | 240 | 1040.3 | -4 | SW'S | 4 | C | 34 | 85 | 4 | 5 | - | - | 10 | 10 | 1500 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1040.4 | +2 | SE'E | 3 | C | 43 | 75 | 7 | 4 | 2 | - | 7.8 | 10 | 2500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1038.4 | +4 | SSE | 5 | q | 43 | 75 | 7 | 5 | - | - | 7.8 | 10 | 4000 |
| | Scilly (St. Mary's) | 163 | 1038.4 | +6 | SE | 3 | C | 45 | 85 | 7 | 5 | - | - | 10 | 10 | 4000 |
| | Guernsey | 175 | 1040.9 | 0 | SSW | 2 | C | 35 | 85 | 6 | 8 | 6 | - | 4.6 | 7.8 | 2500 |
| 6 | Pembroke | 142 | 1037.7 | +4 | S | 5 | C | 46 | 95 | 7 | 4 | 6 | - | 4.6 | 9+ | 4000 |
| 7 | Holyhead | 26 | 1034.9 | -18 | SW | 5 | C | 47 | 85 | 5 | 5 | - | - | 10 | 10 | 1500 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1039.0 | 0 | SW'W | 4 | C | 35 | 85 | 7 | 5 | 2 | - | 7.8 | 10 | 5700 |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1036.9 | -6 | SW | 3 | bc | 34 | 95 | 7 | 5 | - | - | 2.3 | 2.3 | 1500 |
| 11 | Inchkeith | 190 | 1030.7 | -14 | SW | 4 | C | 42 | 85 | 7 | 5 | 2 | - | 4.6 | 10 | 1500 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1044 | -30 | S | 8 | rr | 47 | 95 | 5 | 6 | - | - | 10 | 10 | 800 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1020.5 | -36 | SSW | 6 | C | 47 | 85 | 8 | 9 | 2 | - | 7.8 | 10 | 1500 |
| 16 | Lerwick | 54 | 1019.5 | -34 | S'W | 7 | C/r | 47 | 85 | 7 | 6 | 2 | - | 7.8 | 10 | 800 |
| 17 | Blacksod Point | 18 | 1023.9 | -6 | SSW | 9 | R/R | 51 | 85 | 7 | 6 | - | - | 10 | 10 | 450 |
| 18 | Malin Head | 52 | 1023.5 | -4 | S | 7 | C | 46 | 95 | 7 | 6 | 7 | - | 1 | 9+ | 2500 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1031.1 | 0 | S | 7 | o/pr | 50 | 85 | 7 | 6 | - | - | 10 | 10 | 800 |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 23rd December

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1042.4 | +2 | SW'S | 2 | C | 37 | 85 | 6 | 5 | - | - | 10 | 10 | 1600 | 1 | * |
| | Croydon | 1042.2 | +2 | SW'W | 2 | C | 36 | 86 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | S. Farnborough | 1041.9 | +8 | S'W | 2 | 0 | 35 | 85 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Winchester | 1041.7 | +4 | S | 1 | C | 36 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Boscombe Down | 1041.6 | +4 | SW | 3 | C | 36 | 96 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Calshot, (S'thmtn) | 1042.1 | +8 | S | 3 | C | 39 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | 1 |
| | Dungeness | * | * | SSW | 2 | C | * | * | 7 | 5 | - | * | 10 | 10 | 1500 | * | 1 |
| | Lympne | 1043.4 | +10 | W | 1 | 0 | 34 | 95 | 5 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| 2 | Shoeburyness | 1042.7 | +6 | SSW | 2 | C | 36 | 96 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | * |
| | Felixstowe | 1042.7 | +8 | SW'W | 3 | C | 33 | 85 | 6 | 5 | - | - | 10 | 10 | 1600 | 0 | 3 |
| | Gorleston | 1041.2 | +6 | W | 3 | C | 33 | 85 | 6 | 6 | - | - | 10 | 10 | 2500 | 0 | 2 |
| | Cranwell | 1039.3 | -10 | SSW | 3 | bc | 33 | 85 | 6 | 5 | - | 1 | 1 | 2.3 | 2500 | 4 | * |
| 3 | Birmingham | 1039.5 | -4 | SSW | 3 | bc | 36 | 85 | 8 | 5 | - | 1 | 2.3 | 4.6 | 4000 | 1 | * |
| | Upper Heyford | 1040.6 | -2 | S | 3 | C | 36 | 85 | 6 | 5 | - | - | 9+ | 9+ | 1500 | 0 | * |
| | Leafield | 1040.3 | -6 | S | 3 | C | 34 | 85 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| 4 | Ross-on-Wye | 1039.5 | -6 | SW | 1 | 0 | 37 | 86 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 5 | Portland Bill | 1041.1 | +10 | S | 1 | C | 40 | 75 | 7 | 4 | - | - | 10 | 10 | 2500 | 0 | 2 |
| | Plymouth | 1040.6 | +6 | S | 4 | C | 39 | 86 | 6 | 5 | - | - | 10 | 10 | 1600 | 0 | 2 |
| | Falmouth | 1040.2 | +2 | SW'S | 5 | q | 41 | 75 | 7 | 6 | 2 | - | 7.8 | 10 | 4000 | 0 | 3 |
| | Scilly (St. Mary's) | 1039.4 | +2 | S'W | 3 | C | 43 | 85 | 7 | 5 | - | - | 7.8 | 7.8 | 4000 | 0 | 1 |
| | Guernsey | 1042.3 | +14 | SW | 2 | 0 | 35 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | 2 |
| 6 | Pembroke | 1036.1 | 0 | S | 5 | C | 47 | 95 | 7 | 5 | 6 | - | 4.6 | 9+ | 4000 | 0 | 3 |
| 7 | Holyhead | 1034.6 | +2 | SSW | 6 | q | 49 | 85 | 5 | 5 | - | - | 9+ | 9+ | 1500 | 1 | 3 |
| | Chester (Sealand) | 1037.2 | -12 | SSE | 2 | C | 34 | 85 | 6 | 5 | 1 | - | 4.6 | 7.8 | 4000 | 4 | * |
| 8 | L'pool (Bidston) | 1036.2 | -4 | SE'S | 3 | b | 33 | 95 | 6 | - | - | 4 | 0 | 1 | - | 4a | * |
| 9 | Harrogate | 1036.3 | -6 | SSW | 1 | bc | 34 | 85 | 7 | - | 7 | - | 0 | 4.6 | - | 4 | * |
| 10 | Spurn Head | 1037.9 | -2 | SW'W | 4 | bc | 33 | 95 | 6 | 4 | 3 | - | 2.3 | 4.6 | 2500 | 5 | 3 |
| | Catterick | 1035.9 | -2 | SSW | 4 | q | 38 | 75 | 6 | 5 | - | - | 9 | 9 | 2500 | 4 | * |
| | Tynemouth | 1032.8 | -6 | SSE | 2 | C | 37 | 85 | 6 | 2 | - | - | 7.8 | 7.8 | 2500 | 5 | 2 |
| 11 | Inchkeith | 1027.8 | -6 | SW | 4 | ir | 45 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | 3 |
| | Leuchars | 1026.1 | -8 | SW | 6 | r.r. | 45 | 85 | 7 | 6 | 1 | - | 9 | 9+ | 1500 | 1 | * |
| 12 | Renfrew | 1028.7 | -2 | SW | 4 | rr | 45 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | * |
| | Eskdalemuir | 1031.8 | 0 | SSW | 6 | rr | 41 | 95 | 5 | 6 | 2 | - | 7.8 | 10 | 1500 | 1 | * |
| 13A | Tiree | 1024.2 | +40 | SW'W | 5 | C | 60 | 75 | 7 | 7 | 7 | - | 4.6 | 10 | 2500 | 1 | 4 |
| 13B | Stornoway | 1016.6 | +40 | SSW | 8 | C | 50 | 85 | 6 | 6 | 7 | - | 4.6 | 7.8 | 1500 | 2 | 5 |
| 15 | Dalwhinnie | 1022.3 | -8 | SSW | 4 | C | 43 | 95 | 6 | 3 | 4 | - | 4.6 | 10 | 800 | 1 | * |
| | Aberdeen | 1023.7 | -2 | SW | 4 | C | 46 | 75 | 8 | 5 | - | - | 9 | 9 | 2500 | 1 | 2 |
| | Wick | 1016.9 | -4 | SSW | 6 | C | 47 | 85 | 8 | 8 | 2 | - | 7.8 | 10 | 2500 | 1 | 4 |
| 16 | Lerwick | 1010.5 | -50 | S'W | 8 | C/r | 48 | 85 | 7 | 6 | - | - | 7.8 | 7.8 | 800 | 1 | * |
| 17 | Blacksod Point | 1026.8 | +18 | — | 0 | DD | 49 | 95 | 7 | 6 | - | - | 10 | 10 | 450 | 2 | 3 |
| 18 | Malin Head | 1026.5 | +30 | WSW | 4 | dr | 47 | 95 | 5 | 6 | 1 | - | 9 | 10 | 800 | 1 | 4 |
| | Aldergrove | 1030.3 | -6 | S'W | 5 | rr | 43 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| | Donaghadee | 1030.3 | 0 | SW | 2 | rr | 44 | 95 | 7 | 6 | - | - | 10 | 10 | 800 | 1 | 1 |
| 19 | Birr Castle | 1031.2 | +4 | S | 2 | r.r. | 45 | 95 | 7 | 6 | 2 | - | 9 | 10 | 1500 | 1 | * |
| 20 | Valentia Obsy.† | 1031.7 | +4 | S'E | 5 | r.r. | 50 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | - |
| | Roches Point | 1034.6 | -6 | SW | 5 | C | 48 | 85 | 8 | 3 | - | - | 7.8 | 7.8 | 2500 | 0 | 5 |

### PAST 24 HOURS.

| District | Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F. (32) | Temperature Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 22nd. Hrs. (36) |
|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 39 | 34 | 33 | - | - | 0.0 |
| | Croydon | 38 | 33 | 31 | - | - | 0.0 |
| | S. Farnborough | 37 | 32 | 32 | - | - | 0.0 |
| | Winchester | 37 | 33 | 34 | - | - | * |
| | Boscombe Down | 36 | 31 | 27 | - | - | 0.0 |
| | Calshot, (S'thmtn) | 38 | 36 | 34 | - | - | * |
| | Dungeness | 35 | 34 | * | - | - | 0.0 |
| | Lympne | 35 | 32 | 31 | - | - | 0.0 |
| 2 | Shoeburyness | 38 | 32 | 32 | - | - | 0.0 |
| | Felixstowe | 39 | 33 | 32 | - | - | 0.0 |
| | Gorleston | 39 | 32 | 30 | - | - | 0.0 |
| | Cranwell | 37 | 30 | 26 | - | - | 0.0 |
| 3 | Birmingham | 36 | 32 | 28 | - | - | * |
| | Upper Heyford | 36 | 32 | 28 | - | - | 0.0 |
| | Leafield | 35 | 30 | 23 | - | - | 0.0 |
| 4 | Ross-on-Wye | 37 | 34 | 30 | - | - | * |
| 5 | Portland Bill | 41 | 39 | * | - | - | 5.3 |
| | Plymouth | 43 | 37 | 34 | - | - | 3.2 |
| | Falmouth | 46 | 41 | * | - | - | 0.5 |
| | Scilly (St. Mary's) | 47 | 41 | * | - | - | 0.0 |
| | Guernsey | 44 | 34 | 31 | - | - | 0.5 |
| 6 | Pembroke | 44 | 43 | * | - | - | 0.0 |
| 7 | Holyhead | 42 | 40 | 38 | - | - | 2.3 |
| | Chester (Sealand) | 37 | 29 | 25 | - | - | 2.7 |
| 8 | L'pool (Bidston) | 36 | 30 | 28 | - | - | 0.0 |
| 9 | Harrogate | 34 | 28 | 23 | - | - | 0.0 |
| 10 | Spurn Head | 40 | 33 | * | - | - | * |
| | Catterick | 36 | 28 | 22 | - | Tr. | * |
| | Tynemouth | 37 | 31 | 27 | - | - | * |
| 11 | Inchkeith | 42 | 39 | 36 | - | 0.1 | 4.5 |
| | Leuchars | 40 | 37 | 32 | - | 0.6 | 3.6 |
| 12 | Renfrew | 43 | 39 | 36 | - | 8 | 0.0 |
| | Eskdalemuir | 35 | 33 | 32 | - | 1 | 0.0 |
| 13A | Tiree | 47 | 46 | 45 | - | 12 | 0.0 |
| 13B | Stornoway | 48 | 46 | * | 1 | 9 | 0.0 |
| 15 | Dalwhinnie | 40 | 38 | 36 | - | 3 | 12.9 |
| | Aberdeen | 41 | 37 | 34 | - | - | * |
| | Wick | 46 | 44 | * | - | 0.2 | 0.0 |
| 16 | Lerwick | 47 | 46 | * | - | 4 | * |
| 17 | Blacksod Point | 51 | 39 | * | Tr | 27 | 2.5 |
| 18 | Malin Head | 46 | 45 | * | - | 3 | 5.0 |
| | Aldergrove | 44 | 42 | 39 | - | 5 | * |
| | Donaghadee | 46 | 43 | * | - | 3 | 4.6 |
| 19 | Birr Castle | 48 | 42 | 36 | - | 2 | 0.6 |
| 20 | Valentia Obsy.† | 51 | 49 | 47 | - | 9 | * |
| | Roches Point | 50 | 46 | * | - | - | |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning | Weather Afternoon | Weather Night | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. (To-day) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 24 hrs. ended 9h. | | | | | | | | | | | |
| Kew | 18 | 03. | 03. | 03. Cm. | 39 | 34 | 33 | - | - | 0.0 | * | * | 5 |
| Croydon | 217 | Cm. | Cm. | Cm. | 38 | 33 | 31 | - | - | 0.0 | * | * | 6 |
| Greenwich (Royal Observatory) | 149 | C | C | C | 38 | 33 | 32 | - | - | 0.0 | 80 | 75 | 6 |
| City (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Westminster (St. James' Park) | 27 | * | * | * | 39 | 34 | 32 | - | - | 0.0 | 73 | 74 | * |
| Regents Pk. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Camden Square | 110 | 0 | 0 | * | 40 | 33 | 34 | - | - | * | * | 83 | * |
| Kensington | 80 | * | * | * | 39 | 33 | 33 | - | - | 0.0 | At 18h. 85 | 81 | * |
| Hampstead Observatory | 450 | 0m | 0m | 0m | 36 | 29 | 28 | - | Tr. | 0.0 | * | 83 | * |

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 23rd.

| South Kensington Max. | Time. | Min. | Time. | Kew Observatory Max. | Time. | Min. | Time. |
|---|---|---|---|---|---|---|---|
| 1.0 | 9h-10h 22nd | Nil | 0-6h 23rd. | 0.4 | 15h 22nd. | 0.1 | 1-4h 23rd. |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 22nd December. Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 23rd December. Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day. mm. | Rainfall Night. mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris | 1040.5 | E.NE | 2 | C | 32 | 1044.2 | - | 0 | 0 | 30 | 34 | 25 | - | - |
| Brussels | 1041.2 | ESE | 2 | C | 28 | 1043.5 | W | 2 | 0 | 27 | 32 | 23 | - | - |
| Berlin | 1043.0 | NNW | 2 | 0 | 30 | 1041.7 | W | 3 | 0 | 25 | 34 | ? | - | - |
| Zurich | 1039.9 | S | 1 | 3 | 32 | 1043.5 | NE | 1 | 3 | 21 | ? | 19 | - | - |
| Rome | 1033.7 | NE | 3 | b | 41 | 1035.1 | E | 3 | b | 32 | 56 | 30 | - | - |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13-18 | 9 | 47-54 |
| 1 | 1-3 | 5 | 19-24 | 10 | 55-63 |
| 2 | 4-7 | 6 | 25-31 | 11 | 64-75 |
| 3 | 8-12 | 7 | 32-38 | 12 | 75 |
| | | 8 | 39-46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | Objects not visible at |
|---|---|
| 0 Dense fog | 55 yards. |
| 1 Thick fog | 220 " |
| 2 Fog | 550 " |
| 3 Moderate fog | 1,100 " |
| 4 Mist or haze | 1¼ miles. |
| 5 Poor visibility | 2½ " |
| 6 Moderate " | 6½ " |
| 7 Good " | 12½ " |
| 8 Very good " | 31 " |
| 9 Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | |
|---|---|
| 0 Calm. | 5 Very rough. |
| 1 Smooth. | 6 High. |
| 2 Slight. | 7 Very high. |
| 3 Moderate. | 8 Precipitous. |
| 4 Rough. | 9 Confused. |

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 24th December 1931.

No. 25599

### OBSERVATIONS at 13h. G.M.T. 23rd December

| District | Stations. (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind. Direc. (3) | Wind. Force 0-12 (4) | Weather. (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud. Form. Low. (9) | Cloud. Form. Med. (10) | Cloud. Form. High (11) | Cloud. Amount. Low 0-10 (12) | Cloud. Amount. Total 0-10 (13) | Height of Base. (feet) (14) | Sun-shine 22nd Hrs. (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1042.1 | -4 | SW'S | 3 | o | 38 | 75 | 5 | 5 | - | - | 10 | 10 | 1500 | 0.0 |
| | Croydon | 1042.3 | -2 | SW'W | 3 | c | 37 | 75 | 6 | 5 | - | - | 10 | 10 | 1500 | 0.0 |
| | S. Farnborough | 1041.9 | -8 | SSW | 3 | c | 38 | 85 | 6 | 5 | - | - | 9+ | 9+ | 1500 | 0.0 |
| | Winchester | 1041.9 | -8 | SW | 3 | c | 39 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 0.0 |
| | Boscombe Down | 1042.1 | -6 | SSW | 3 | c | 38 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | * |
| | Calshot, S'thmtn | 1042.5 | 0 | SW'W | 3 | c | 41 | 75 | 6 | 5 | - | - | 10 | 10 | 2500 | 0.0 |
| | Dungeness | * | * | SW | 3 | c | * | * | 7 | 5 | 2 | * | 7-8 | 10 | 2500 | * |
| | Lympne | 1043.2 | -2 | WSW | 3 | o | 37 | 85 | 6 | 5 | - | - | 10 | 10 | 800 | 0.0 |
| 2 | Shoeburyness | 1042.4 | 0 | SSW | 3 | c | 39 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 0.0 |
| | Felixstowe | 1041.9 | -10 | WSW | 3 | c | 37 | 75 | 6 | 5 | - | - | 10 | 10 | 1500 | 0.0 |
| | Gorleston | 1041.1 | -4 | W'S | 2 | c | 36 | 95 | 6 | 5 | - | - | 10 | 10 | 2500 | 0.0 |
| | Cranwell | 1039.1 | -10 | SSW | 4 | c | 39 | 75 | 6 | 5 | - | 6 | 1 | 7-8 | 2500 | 0.0 |
| 3 | Birmingham | 1039.0 | -2 | SW | 3 | bc | 39 | 75 | 6 | 1 | 1 | - | 2-3 | 4-6 | 2500 | * |
| | Upper Heyford | 1041.4 | -6 | SW | 4 | c | 38 | 85 | 6 | 5 | - | - | 10 | 10 | 800 | 0.0 |
| | Leafield | 1040.9 | -6 | SW | 4 | c | 37 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 0.0 |
| 4 | Ross-on-Wye | 1039.6 | 0 | SW | 3 | c | 39 | 75 | 6 | 5 | - | 9 | 9 | 9 | 4000 | * |
| 5 | Portland Bill | 1041.8 | 0 | SSW | 4 | c | 41 | 75 | 7 | 4 | - | - | 10 | 10 | 2500 | 5.3 |
| | Plymouth | 1041.7 | -4 | S'W | 3 | c | 42 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 3.2 |
| | Falmouth | 1040.8 | +2 | SW | 5 | q | 44 | 75 | 7 | 5 | 2 | - | 4-6 | 10 | 4000 | 0.5 |
| | Scilly (St. Mary's) | 1040.2 | -2 | SW'S | 5 | c | 45 | 85 | 6 | 5 | - | - | 9+ | 9+ | 4000 | 0.0 |
| | Guernsey | 1042.8 | -2 | SW | 3 | bc | 38 | 85 | 6 | 7 | 4 | 1 | 4-6 | 4-6 | 2500 | 0.5 |
| 6 | Pembroke | 1039.6 | +4 | SSW | 3 | c | 47 | 85 | 7 | 4 | 6 | - | 4-6 | 9+ | 4000 | 0.0 |
| 7 | Holyhead | 1034.9 | -6 | SW'S | 6 | q | 49 | 85 | 6 | 6 | 1 | - | 9+ | 10 | 1500 | 2.3 |
| | Chester (Sealand) | 1036.9 | -10 | SSW | 2 | c | 47 | 65 | 7 | 5 | 1 | 1 | 4-6 | 7-8 | 2500 | 2.7 |
| 8 | L'pool (Bidston) | 1036.2 | -6 | WSW | 3 | c | 46 | 75 | 6 | 5 | 1 | 8 | 2-3 | 9 | 1500 | 0.0 |
| 9 | Harrogate | 1035.9 | 0 | SW | 3 | m | 40 | 85 | 4 | 5 | 1 | - | 4-6 | 9+ | <150 | 0.0 |
| 10 | Spurn Head | 1037.2 | -4 | SW'W | 5 | bc | 41 | 85 | 6 | 5 | 3 | 9 | 2-3 | 4-6 | 2500 | * |
| | Catterick | 1034.3 | -14 | SW | 4 | c | 42 | 85 | 7 | 5 | 7 | 7 | 4-6 | 10 | 1500 | * |
| | Tynemouth | 1031.0 | -12 | SW | 5 | c | 46 | 75 | 6 | 2 | - | - | 7-8 | 7-8 | 1500 | 4.5 |
| 11 | Inchkeith | 1028.7 | +8 | SW | 4 | c | 47 | 95 | 7 | 5 | 2 | - | 9+ | 10 | 1500 | 3.6 |
| | Leuchars | 1028.1 | +12 | SW | 5 | c | 47 | 85 | 6 | 5 | 2 | - | 9+ | 10 | 800 | 0.0 |
| 12 | Renfrew | 1029.7 | +2 | SW | 4 | ic | 47 | 95 | 6 | 6 | - | - | 10 | 10 | 450 | 0.0 |
| | Eskdalemuir | 1032.0 | -2 | SSW | 3 | ic | 43 | 95 | 6 | 5 | - | - | 10 | 10 | 220 | 0.0 |
| 13A | Tiree | 1026.9 | -4 | S'W | 4 | c | 48 | 95 | 6 | 6 | 1 | - | 2-3 | 10 | 1500 | 0.0 |
| 13B | Stornoway | 1023.7 | +16 | SW | 3 | c | 47 | 95 | 7 | 4 | 1 | - | 4-6 | 10 | 1500 | 0.0 |
| 15 | Dalwhinnie | 1029.9 | +4 | SW | 3X | bc | 45 | 65 | 8 | 4 | 5 | 2 | 2-3 | 4-6 | 2500 | 18.0 |
| | Aberdeen | 1027.3 | +20 | WSW | 2 | c | 47 | 85 | 6 | 1 | 7 | 8 | 1 | 7-8 | 2500 | * |
| | Wick | 1023.2 | +38 | SW | 4 | bc | 47 | 75 | 8 | 8 | 8 | 3 | 2-3 | 4-6 | 2500 | 0.0 |
| 16 | Lerwick | 1017.2 | +42 | SW | 8 | c/p | 49 | 75 | 7 | 8 | - | - | 7-8 | 7-8 | 1500 | * |
| 17 | Blacksod Point | 1026.2 | -10 | S | 6 | DD | 51 | 95 | 7 | 6 | - | - | 10 | 10 | <150 | 2.5 |
| 18 | Malin Head | 1027.5 | -6 | SW'W | 4 | c/d | 49 | 95 | 6 | 6 | 1 | - | 9 | 10 | 1500 | 5.0 |
| | Aldergrove | 1031.6 | +2 | S | 4 | rr | 45 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | * |
| | Donaghadee | 1031.2 | +2 | SW | 1 | rr | 46 | 95 | 7 | 6 | - | - | 10 | 10 | 800 | 4.6 |
| 19 | Birr Castle | 1031.9 | -6 | S | 3 | rr | 48 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 | 0.6 |
| 20 | Valentia Obsy. | 1031.8 | 0 | S'E | 6 | ir | 51 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | * |
| | Roches Point | 1035.1 | -2 | SW | 5 | c | 50 | 75 | 8 | 3 | - | - | 7-8 | 7-8 | 1500 | |

### OBSERVATIONS at 18h. G.M.T. 23rd December

| District | Stations. | Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind. Direc. (17) | Wind. Force 0-12 (18) | Weather. (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud. Form. Low. (23) | Cloud. Form. Med. (24) | Cloud. Form. High. (25) | Cloud. Amount. Low. 0-10 (26) | Cloud. Amount. Total 0-10 (27) | Height of Base (feet) (28) | State of Ground. 0-9 (29) | Sea. 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1042.0 | 0 | SW | 3 | c | 39 | 85 | 5 | 5 | 1 | - | 9+ | 10 | 2500 | 1 | * |
| | Croydon | 1042.1 | +2 | WSW | 3 | c | 39 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | S. Farnborough | 1042.1 | +2 | SWW | 3 | c | 39 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Winchester | 1042.1 | +8 | SW'S | 3 | c | 38 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Boscombe Down | 1041.6 | 0 | SW | 3 | c | 38 | 85 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 0 | * |
| | Calshot, S'thmtn | 1042.3 | +2 | W | 2 | c | 41 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | 0 |
| | Dungeness | * | * | WSW | 3 | c | * | * | 7 | 8 | 2 | * | 7-8 | 9+ | 1500 | * | 2 |
| | Lympne | 1042.0 | -10 | WSW | 3 | c | 37 | 85 | 5 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| 2 | Shoeburyness | 1041.5 | -6 | SW | 3 | c | 38 | 85 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 0 | * |
| | Felixstowe | 1041.9 | +2 | WSW | 3 | c | 37 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 0 | 2 |
| | Gorleston | 1040.2 | -2 | W'S | 2 | c | 36 | 85 | 6 | 5 | - | - | 10 | 10 | 2500 | 0 | 2 |
| | Cranwell | 1038.0 | -6 | SW'S | 4 | c | 36 | 95 | 5 | 5 | 7 | - | 4-6 | 9 | 5700 | 1 | * |
| 3 | Birmingham | 1038.9 | 0 | SSW | 3 | b | 34 | 95 | 6 | - | 3 | - | 0 | 1 | - | 1 | * |
| | Upper Heyford | 1041.4 | +2 | SW'W | 4 | c | 35 | 85 | 6 | 5 | - | - | 9+ | 9+ | 800 | * | * |
| | Leafield | 1041.0 | 0 | SW'W | 3 | c | 34 | 85 | 6 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| 4 | Ross-on-Wye | 1039.4 | -4 | SW'W | 3 | c | 39 | 85 | 6 | 5 | 9 | - | 1 | 7-8 | 2500 | 1 | * |
| 5 | Portland Bill | 1041.9 | +6 | SW'W | 3 | c | 43 | 75 | 7 | 4 | - | - | 10 | 10 | 2500 | 0 | 3 |
| | Plymouth | 1041.1 | +6 | S | 4 | c | 46 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 2 |
| | Falmouth | 1040.2 | -2 | SW | 4 | q | 46 | 75 | 6 | 5 | 2 | - | 7-8 | 10 | 4000 | 0 | 2 |
| | Scilly (St. Mary's) | 1039.9 | +2 | SW | 5 | c | 48 | 85 | 7 | 8 | 6 | - | 7-8 | 9 | 4000 | 0 | 3 |
| | Guernsey | 1042.4 | +4 | - | 0 | o | 39 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 | 0 | 2 |
| 6 | Pembroke | 1038.0 | 0 | SW | 5 | c | 48 | 95 | 7 | 4 | 6 | - | 4-6 | 9+ | 4000 | 0 | 3 |
| 7 | Holyhead | 1034.0 | -8 | SW'S | 6 | ic | 49 | 85 | 6 | 6 | 1 | - | 7-8 | 10 | 1500 | 1 | 3 |
| | Chester (Sealand) | 1036.4 | -4 | SE'E | 3 | rr | 41 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | * |
| 8 | L'pool (Bidston) | 1035.5 | -4 | SE'S | 2 | rr | 42 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 9 | Harrogate | 1035.2 | 0 | SW'S | 2 | c | 40 | 85 | 5 | 5 | 2 | - | 7-8 | 10 | 2500 | 1 | * |
| 10 | Spurn Head | 1035.9 | -2 | SW'W | 5 | c | 40 | 85 | 6 | 5 | 2 | - | 4-6 | 9+ | 1500 | 0 | 4 |
| | Catterick | 1033.9 | -6 | SSW | 3 | c | 43 | 85 | 7 | 5 | 2 | - | 7-8 | 10 | 1500 | 0 | * |
| | Tynemouth | 1031.9 | -8 | SW | 4 | o/c | 46 | 85 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | 2 |
| 11 | Inchkeith | 1028.2 | -6 | SW | 3 | ic | 48 | 95 | 8 | 5 | 2 | - | 4-6 | 10 | 1500 | 0 | 2 |
| | Leuchars | 1027.4 | -12 | SSW | 3 | ic | 47 | 85 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| 12 | Renfrew | 1027.4 | -16 | SSW | 3 | rr | 47 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| | Eskdalemuir | 1030.1 | -14 | SSW | 4 | rr | 44 | 95 | 6 | 6 | - | - | 10 | 10 | 220 | 1 | * |
| 13A | Tiree | 1021.1 | -40 | S | 5 | rr | 49 | 95 | 6 | 6 | 2 | - | 7-8 | 10 | 800 | 1 | 4 |
| 13B | Stornoway | 1020.7 | -10 | SW | 4 | c | 49 | 95 | 7 | 4 | 2 | - | 2-3 | 10 | 2500 | 1 | 1 |
| 15 | Dalwhinnie | 1025.9 | -10 | S | 2 | r | 44 | 95 | 6 | 3 | 5 | - | 4-6 | 10 | 800 | 1 | * |
| | Aberdeen | 1026.2 | -14 | S'W | 2 | ic | 47 | 85 | 6 | 6 | 7 | - | 4-6 | 9+ | 1500 | 1 | 1 |
| | Wick | 1024.0 | 0 | WSW | 3 | c | 44 | 95 | 8 | 5 | 7 | 8 | 4-6 | 10 | 2500 | 1 | 3 |
| 16 | Lerwick | 1021.7 | +24 | SW | 2 | c/r | 45 | 85 | 7 | 8 | - | - | 7-8 | 7-8 | 1500 | 1 | * |
| 17 | Blacksod Point | 1022.7 | -18 | S | 7 | DD | 52 | 95 | 7 | 6 | - | - | 10 | 10 | <150 | 2 | 6 |
| 18 | Malin Head | 1021.8 | -28 | S | 5 | dr | 49 | 95 | 6 | 6 | 1 | - | 4-6 | 10 | 1500 | 1 | 4 |
| | Aldergrove | 1027.7 | -22 | S'W | 5 | r | 46 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| | Donaghadee | 1020.8 | -14 | SW | 2 | RR | 47 | 95 | 7 | 6 | - | - | 10 | 10 | 800 | 1 | 1 |
| 19 | Birr Castle | 1029.9 | -6 | S | 3 | rr | 48 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | * |
| 20 | Valentia Obsy. | 1031.4 | +6 | S'E | 6 | c/r | 51 | 95 | 7 | 6 | - | - | 10 | 10 | 800 | 1 | 4 |
| | Roches Point | 1035.3 | +2 | WSW | 4 | c | 50 | 75 | 8 | 5 | - | - | 9+ | 9+ | 1500 | 0 | 4 |

### PAST 24 HOURS.

| Stations. | Weather 7h.–13h. 23rd (37) | Weather 13h.–18h. 23rd (38) | Weather 18h. 23rd to 1h. 24th (39) | Weather 1h.–7h. 24th (40) |
|---|---|---|---|---|
| London (Kew) | c o j₀ | o c m₀ | c m₀ | or |
| Croydon | c m₀ | c m₀ | c m₀ | c m₀ w d₀ |
| S. Farnborough | o c m₀ | c m₀ | c m₀ | c c r |
| Winchester | c o m₀ | c o m₀ | c m₀ c | c b c c r₀ |
| Boscombe Down | c m₀ | c m₀ c | c | c r₀ |
| Calshot, S'thmtn | c m₀ | c m₀ | c m₀ c | c |
| Dungeness | c | c | * | o |
| Lympne | o m₀ | o m₀ | o m₀ | o c m₀ |
| Shoeburyness | c m₀ | c m₀ c | c | c |
| Felixstowe | c o c j₀ | c j₀ | c b c j₀ | b e c j₀ |
| Gorleston | c m₀ | c m₀ | c m₀ m₀ | c o r |
| Cranwell | h, c m₀ | b c c m₀ | c m₀ r₀ | c r r m₀ |
| Birmingham | b c | b c b | b o r r | o r r r₀ |
| Upper Heyford | o c m₀ | c m₀ | c m₀ | c o r r |
| Leafield | c | c | c | o i r₀ |
| Ross-on-Wye | i m₀ c | c b c c | c o | o r r |
| Portland Bill | c | c | c | c |
| Plymouth | c m₀ | c m₀ | c m₀ | c |
| Falmouth | c q | c m₀ q | c b c q | b c 3 |
| Scilly (St. Mary's) | c | c | c | c |
| Guernsey | o c b c | b c c o m | o c | c o |
| Pembroke | c | c | c i r | d d o i r₀ |
| Holyhead | c, r₀ d₀ q m₀ | i r₀ q | r r r r q | d b r₀ c q |
| Chester (Sealand) | c m₀ j | c i r₀ | r r₀ m₀ | o m c |
| L'pool (Bidston) | + b b c c | c o p r r | o r r c | c q c |
| Harrogate | b c c m | c | c q i r₀ | c q |
| Spurn Head | b c | b c q c | c o q r r | o r r o |
| Catterick | c m₀ c | c | c | c |
| Tynemouth | c | c, o i r₀ m | o q | o q |
| Inchkeith | i r c | c | c i r₀ | c i r₀ |
| Leuchars | c r₀ r₀ c q | c q d₀ r₀ | o r m c | c q |
| Renfrew | o r c i r₀ | o r₀ d r r | o r r c | c q |
| Eskdalemuir | o r r r₀ | o r₀ o r r | o d d o r r | c d₀ d₀ |
| Tiree | c | r r r | d r d r m | i d r₀ |
| Stornoway | c i d₀ | c | c d₀ d₀ | c d₀ d₀ |
| Dalwhinnie | b c | b c | * | c |
| Aberdeen | c q b c | b c r₀ | r r₀ c | c b c |
| Wick | c b c | b c c | c r₀ r c | c |
| Lerwick | c i r ||| c i r | c p r | c p r₀ r₀ |
| Blacksod Point | d d | d d q | d d q | o q |
| Malin Head | c d d m m₀ | c d r d r m m₀ | c i d m m₀ | c |
| Aldergrove | o r r m₀ | o r r m₀ | c i r₀ | c |
| Donaghadee | o r r | o R R | o R R | c |
| Birr Castle | r₀ r₀ o r r | o r r | o r r c | c |
| Valentia Obsy. | c r r₀ i r | c r r c | r r c | c o i r₀ |
| Roches Point | c p₀ c | c | c i r | c r o i d₀ |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus, R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ◐, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than 1/10 of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

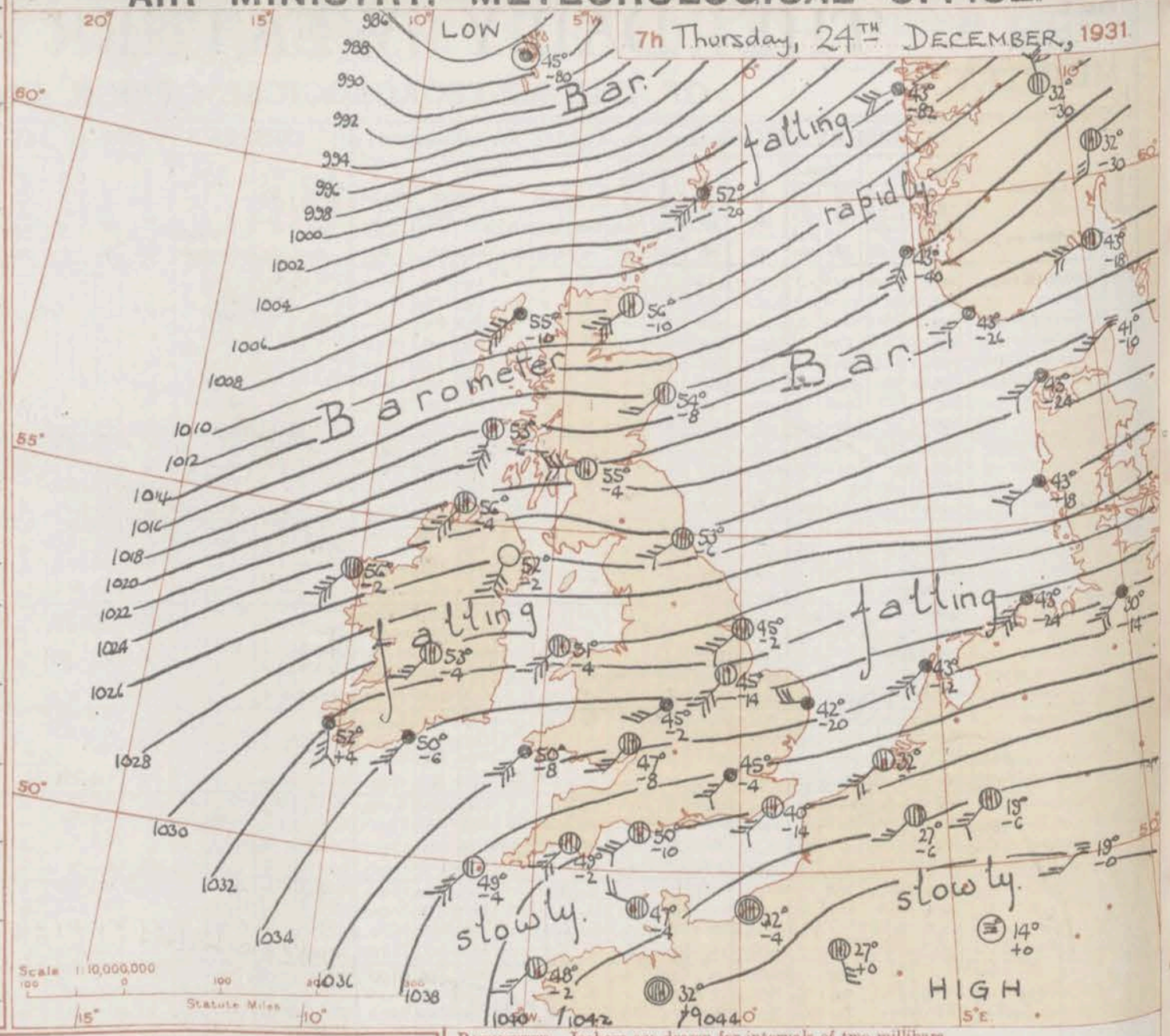
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for 23rd December 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 22nd to 9h. 23rd | Temperature. Max. 9h.—17h. 23rd | Rainfall. Night. 17h. 22nd to 9h. 23rd | Rainfall. Day. 9h.—17h. 23rd | Sunshine. Sunrise to Sunset. 23rd |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | o | o | 32 | 38 | – | – | 0.0 |
| | Bournemouth | o | o | 35 | 41 | – | – | 0.0 |
| | Ventnor ... | o3 | ow3 | 35 | 41 | – | – | 0.0 |
| | Southsea ... | o | o | 35 | 41 | – | – | 0.0 |
| | Bognor Regis | c | co | 34 | 41 | – | – | 0.0 |
| | Littlehampton | c | c | 34 | 41 | – | – | 0.0 |
| | Worthing ... | o | o | 34 | 42 | – | – | 0.0 |
| | Brighton ... | c | coc | 35 | 42 | – | – | 0.0 |
| | Eastbourne† | oco | o | 35 | 42 | – | – | 0.0 |
| | Hastings† ... | oco | o | 34 | 40 | – | – | 0.0 |
| | Folkestone ... | o | o | 32 | 39 | – | – | 0.0 |
| | Dover... ... | oc | co | 33 | 40 | – | – | 0.0 |
| | Deal ... ... | o | o | 33 | 39 | – | – | 0.0 |
| | Ramsgate ... | o | o | 32 | 39 | – | – | 0.0 |
| | Margate ... | c | c | 32 | 39 | – | – | 0.0 |
| 2 | Southend ... | o | co | 33 | 38 | – | – | 0.0 |
| | Maldon ... | o | o | 33 | 39 | – | – | 0.0 |
| | Clacton-on-Sea | c | c | 33 | 38 | – | – | 0.0 |
| | Dovercourt ... | oc | oc | 32 | 38 | – | – | 0.0 |
| | Lowestoft ... | c | c | 30 | 34 | – | – | 0.0 |
| | Skegness ... | om | obcmm | 33 | 39 | – | – | 0.3 |
| | Mablethorpe | cbc | bcem | 31 | 39 | – | – | 1.8 |
| | Cleethorpes ... | c | c | 31 | 41 | – | – | 2.1 |
| 3 | Leamington S. | o | o | 33 | 39 | – | – | 0.0 |
| 4 | Cheltenham† | acm | cm | 32 | 39 | – | – | 0.0 |
| 5 | Bath ... ... | c | c | 28 | 40 | – | – | 0.0 |
| | Weymouth ... | c | c | 37 | 42 | – | – | 0.0 |
| | Jersey ... | cbc | bc | 31 | 39 | – | – | 4.0 |
| | Torquay ... | o3o | o3 | 38 | 44 | – | – | 0.0 |
| | Penzance ... | c | c | 41 | 47 | – | – | 0.3 |
| | St. Ives ... | c | c | 39 | 46 | – | – | 0.3 |
| | Bude ... ... | o | o | 33 | 44 | – | – | 0.0 |
| | Ilfracombe ... | o | o | 37 | 44 | – | – | 0.0 |
| 6 | Aberystwyth | bcmc | c | 31 | 45 | – | – | 0.5 |
| 7 | Llandudno ... | c | c | 33 | 47 | – | – | 0.2 |
| | Colwyn Bay... | bcebc | bcc | 33 | 46 | – | – | 0.2 |
| | Rhyl ... ... | b3 | bcc3o | 29 | 47 | – | – | 0.1 |
| 8 | Wallasey ... | fobcc | cor | 31 | 47 | – | 0.5 | 0.4 |
| | Southport‖ ... | fobcco | omore | 31 | 44 | – | 0.5 | 0.0 |
| | Blackpool ... | od | o | 31 | 45 | – | 0.1 | 0.0 |
| | Morecambe ... | c | rdo | 32 | 42 | – | 3 | 0.0 |
| 9 | Ilkley... ... | c | c | 27 | 42 | – | – | 0.0 |
| 10 | Berwick-on-T. | bco | o | 33 | 48 | – | – | 0.0 |
| 11 | Dunbar ... | ~~bor~~c | cbc | 34 | 50 | 0.5 | – | 0.0 |
| 12 | Douglas ... | omorom | RR | 40 | 47 | 3 | 6 | 0.0 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

# AIR MINISTRY. METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊤ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 24th, Dec. 1931. |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands | Moderate or fresh southwesterly wind; mainly cloudy; milder. |
| 4. W. Midlands<br>5. S.W. England | Moderate or fresh southwesterly wind, strong locally; cloudy; local drizzle or occasional slight rain; mild. |
| 6. South Wales<br>7. North Wales | Moderate or fresh southwesterly wind; cloudy, but some brighter intervals; rather mild. |
| 8. N.W. England<br>9. N. Midlands | Strong or fresh southwesterly wind; cloudy; local drizzle or slight rain; mild. |
| 10. N.E. England<br>11. S.E. Scotland | Strong or fresh southwesterly wind; cloudy; perhaps local drizzle; mild. |
| 12. S.W. Scotland & Isle of Man<br>13. A. W. Scotland<br>B. N.W. Scotland<br>14. Mid-Scotland<br>15. N.E. Scotland<br>16. Orkneys and Shetlands<br>17. N.W. Ireland<br>18. N.E. Ireland | Strong southwesterly wind, a gale at first in exposed places; dull or cloudy; drizzle; perhaps further rain or showers later; very mild today, perhaps somewhat colder later. |
| 19. S.E. Ireland<br>20. S.W. Ireland | As 6 - 9. |

### GENERAL INFERENCE.

A large anticyclone covers France and Germany and extends well westwards. A vigorous secondary to a large depression north of Iceland is moving east-north-east off North Scotland and another secondary or trough will probably approach our western districts. Winds will be from southwest generally and of gale force at first at exposed places in the North. Weather will be mild, especially so in the North, and mainly cloudy with some local drizzle or occasional rain.

### FURTHER OUTLOOK.

Times of issue of Gale Warnings.

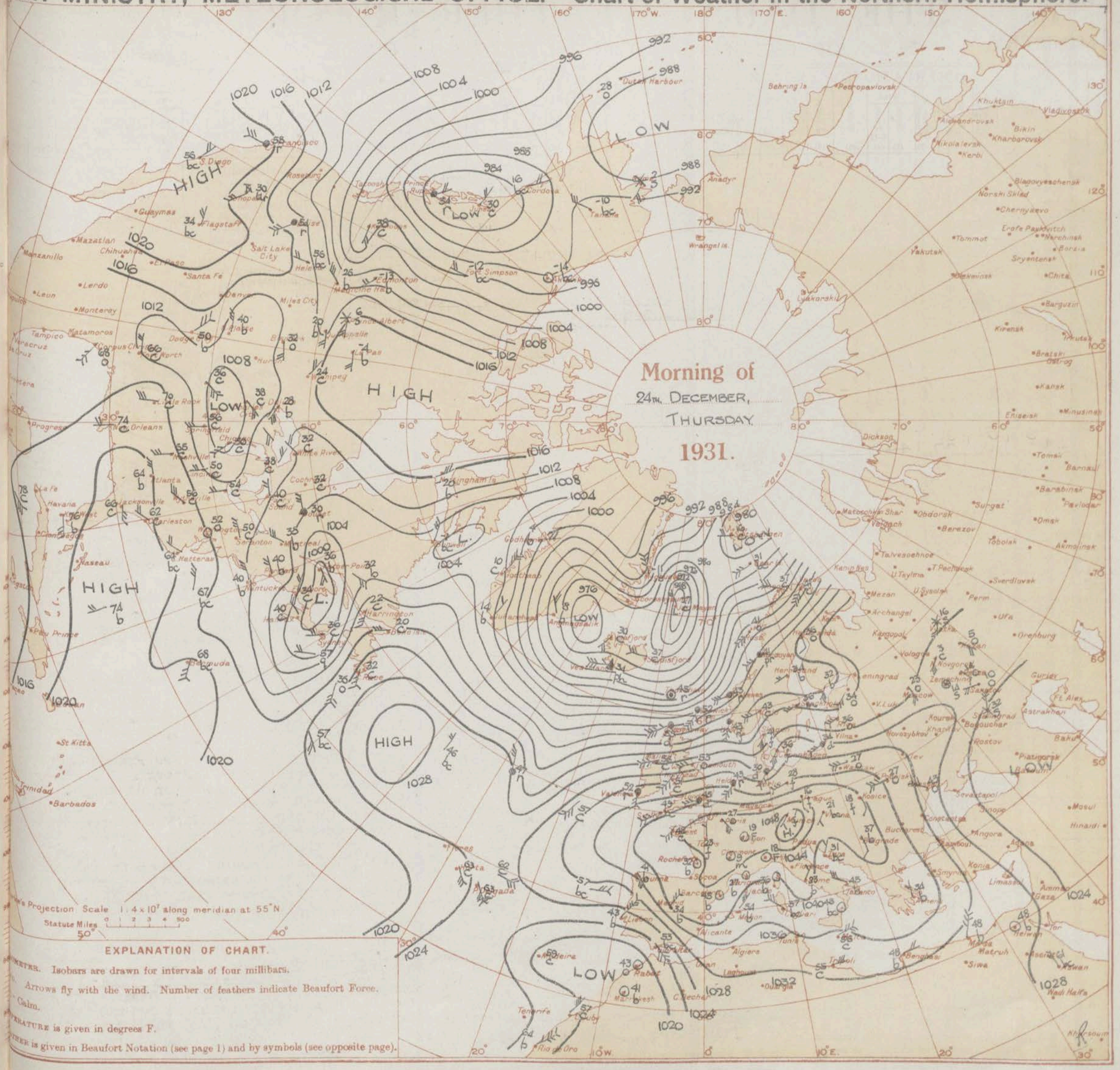
V South Cone at 0810 on 22nd. in Districts 13B, 15, 16.
V South Cone at 1405 on 22nd. in Districts 13A, 17, 20.
V South Cone at 0850 on 23rd in District 11.

Forecasts issued at 1015 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 24th December 1931.

No. 25592

### OBSERVATIONS at 1 hr. G.M.T. 24th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1040.6 | -10 | SW | 3 | c | 40 | 85 | 7 | 5 | - | - | 9+ | 9+ | 800 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot, (S'thmtn) | 8 | 1040.9 | -10 | NSW | 2 | c | 45 | 85 | 7 | 5 | - | - | 9+ | 9+ | 2500 |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1041.6 | -2 | SW'W | 4 | o | 39 | 85 | 6 | 5 | - | - | 10 | 10 | 800 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1038.2 | -12 | WSW | 4 | c | 36 | 85 | 6 | 5 | - | - | 7·8 | 7·8 | 2500 |
| | Cranwell | 240 | 1034.6 | -12 | SW'W | 5 | ir. | 40 | 85 | 6 | 3 | 2 | - | 7·8 | 10 | 1500 |
| 3 | Birmingham | 535 | * | -16 | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1040.5 | -10 | WSW | 4 | c | 50 | 75 | 7 | 4 | 2 | - | 7·8 | 10 | 2500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1040.1 | -10 | SW | 6 | q | 48 | 85 | 7 | 1 | 3 | - | 2·3 | 7·8 | 4000 |
| | Scilly (St. Mary's) | 163 | 1039.8 | +2 | SW | 5 | c | 49 | 85 | 7 | 8 | - | - | 9 | 9 | 4000 |
| | Guernsey | 175 | 1042.6 | 0 | WSW | 1 | c | 46 | 85 | 7 | 8 | 3 | - | 7·8 | 10 | 2500 |
| 6 | Pembroke | 142 | 1036.3 | -4 | SW | 5 | r | 50 | 95 | 6 | 6 | 2 | - | 9 | 10 | 800 |
| 7 | Holyhead | 26 | 1032.2 | -6 | SW | 6 | dd | 49 | 95 | 5 | 6 | 2 | - | 9+ | 10 | 1500 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1033.3 | -8 | SW'W | 5 | rr | 39 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1026.3 | -24 | WSW | 6 | o | 49 | 85 | 7 | 6 | - | - | 10 | 10 | 1500 |
| 11 | Inchkeith | 190 | 1022.5 | -24 | SW | 4 | c | 50 | 95 | 8 | 5 | 2 | - | 4·6 | 10 | 1500 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1011.9 | -32 | NSW | 6 | c | 52 | 95 | 7 | 9 | 2 | - | 9 | 9+ | 1500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1012.9 | -46 | SSW | 4 | c | 47 | 95 | 8 | 8 | 1 | - | 7·8 | 10 | 2500 |
| 16 | Lerwick | 54 | 1015.4 | -44 | S | 2 | pr. | 47 | 95 | 6 | 5 | - | - | 9+ | 9+ | 1500 |
| 17 | Blacksod Point | 18 | 1025.2 | +10 | SWW | 8 | D | 54 | 95 | 7 | 6 | - | - | 10 | 10 | 4150 |
| 18 | Malin Head | 52 | 1021.6 | +6 | SW | 5 | id. | 54 | 95 | 6 | 5 | 1 | - | 9 | 10 | 800 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1031.8 | 0 | SW | 6 | dd | 52 | 95 | 6 | (6) | - | - | 10 | 10 | 800 |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 24th December

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1037.8 | -6 | SW | 3 | rr | 44 | 96 | 7 | 6 | - | - | 10 | 10 | 2500 | 1 | * |
| | Croydon | 1038.1 | -4 | WSW | 4 | id. | 45 | 86 | 6 | 5 | 2 | - | 7·8 | 10 | 800 | 1 | * |
| | S. Farnborough | 1038.4 | -6 | SWW | 3 | ir. | 44 | 86 | 6 | 6 | 2 | - | 7·8 | 10 | 1600 | 1 | * |
| | Winchester | 1038.6 | -10 | SW | 3 | c/r | 44 | 96 | 7 | 6 | 2 | - | 4·6 | 7·8 | 800 | 1 | * |
| | Boscombe Down | 1038.7 | -6 | WSW | 3 | r.r. | 44 | 85 | 7 | 5 | 1 | - | 9 | 9+ | 1500 | 1 | * |
| | Calshot, (S'thmtn) | 1039.2 | -8 | WSW | 3 | c | 46 | 85 | 7 | 5 | 4 | - | 4·6 | 9+ | 4000 | 0 | 1 |
| | Dungeness | * | * | SW | 4 | c | * | * | 7 | 8 | 2 | * | 7·8 | 9+ | 1500 | * | 2 |
| | Lympne | 1039.7 | -14 | SW | 4 | c | 40 | 96 | 6 | - | - | 8 | 0 | 9+ | - | 0 | * |
| 2 | Shoeburyness | 1037.4 | -8 | SWS | 3 | c | 44 | 96 | 7 | 6 | 3 | - | 7·8 | 10 | 4000 | 0 | * |
| | Felixstowe | 1036.9 | -8 | WSW | 3 | c | 42 | 86 | 6 | 5 | 1 | 8 | 4·6 | 9+ | 1500 | 0 | 2 |
| | Gorleston | 1034.2 | -20 | W | 3 | rr | 42 | 96 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | 2 |
| | Cranwell | 1031.9 | -14 | SWW | 6 | c | 45 | 96 | 6 | 5 | 7 | 6 | 2·3 | 7·8 | 2500 | 1 | * |
| 3 | Birmingham | 1034.9 | -2 | WSW | 3 | ir. | 45 | 96 | 8 | 6 | 2 | - | 7·8 | 10 | 1500 | 1 | * |
| | Upper Heyford | 1036.8 | -6 | SW | 4 | o/r | 42 | 95 | 7 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| | Leafield | 1036.4 | -6 | SW | 4 | ir. | 42 | 96 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| 4 | Ross-on-Wye | 1035.7 | -8 | SW | 3 | c/r | 47 | 96 | 6 | 6 | 2 | - | 2·3 | 10 | 2500 | 1 | * |
| 5 | Portland Bill | 1038.9 | -10 | WSW | 4 | c | 50 | 75 | 8 | 4 | 1 | - | 7·8 | 10 | 2500 | 0 | 3 |
| | Plymouth | 1040.0 | -2 | SW | 5 | c | 49 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 0 | 2 |
| | Falmouth | 1039.0 | -4 | SWW | 5 | q | 48 | 85 | 7 | 7 | 3 | - | 4·6 | 4·6 | 4000 | 0 | 3 |
| | Scilly (St. Mary's) | 1039.2 | -4 | SWW | 5 | bc | 49 | 96 | 7 | 4 | 1 | - | 4·6 | 4·6 | 4000 | 0 | 4 |
| | Guernsey | 1041.3 | -4 | WNW | 2 | o | 47 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 0 | 1 |
| 6 | Pembroke | 1035.6 | -8 | SW | 6 | ir. | 50 | 96 | 6 | 3 | 6 | - | 6 | 10 | 800 | 1 | 3 |
| 7 | Holyhead | 1031.1 | -4 | SW | 6 | q | 51 | 96 | 5 | 5 | - | - | 9+ | 9+ | 450 | 1 | 3 |
| | Chester (Sealand) | 1031.9 | +4 | SWW | 5 | c | 52 | 75 | 7 | 5 | 3 | - | 7·8 | 9+ | 2500 | 1 | * |
| 8 | L'pool (Bidston) | 1031.7 | 0 | WSW | 4 | c | 50 | 86 | 8 | 5 | - | - | 7·8 | 7·8 | 2500 | 0 | * |
| 9 | Harrogate | 1029.4 | -10 | SW | 6 | q | 48 | 96 | 7 | 6 | 2 | - | 7·8 | 10 | 2500 | 1 | * |
| 10 | Spurn Head | 1030.4 | -2 | WSW | 4 | o | 45 | 96 | 6 | 6 | - | - | 10 | 10 | 2500 | 1 | 3 |
| | Catterick | 1026.7 | -8 | WSW | 6 | c | 51 | 95 | 7 | 5 | 7 | - | 4·6 | 9+ | 1500 | 0 | * |
| | Tynemouth | 1024.0 | -6 | WSW | 4 | o | 53 | 85 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | 2 |
| 11 | Inchkeith | 1020.8 | -8 | SW | 6 | c | 53 | 96 | 8 | 5 | 2 | - | 4·6 | 10 | 2500 | 0 | 3 |
| | Leuchars | 1019.3 | -2 | WSW | 5 | c | 54 | 85 | 7 | 5 | 4 | - | 7·8 | 7·8 | 1500 | 1 | * |
| 12 | Renfrew | 1022.2 | -4 | W | 5 | q | 55 | 85 | 7 | 8 | 3 | - | 4·6 | 9 | 2500 | 1 | * |
| | Eskdalemuir | 1023.4 | -10 | SW | 7 | d.d. | 49 | 96 | 5 | 6 | - | - | 10 | 10 | 450 | 1 | * |
| 13A | Tiree | 1018.1 | -6 | SWS | 7 | c | 53 | 96 | 6 | 6 | 2 | - | 9+ | 10 | 1500 | 1 | 4 |
| 13B | Stornoway | 1009.1 | -10 | WSW | 7 | d.d. | 55 | 96 | 6 | 3 | 2 | - | 7·8 | 10 | 1500 | 1 | 4 |
| 15 | Dalwhinnie | 1017.8 | -4 | SW | 6 | c | 54 | 85 | 7 | 4 | 2 | - | 4·6 | 10 | 800 | 0 | * |
| | Aberdeen | 1016.0 | -8 | SW | 2 | bc | 54 | 85 | 7 | - | 7 | - | 0 | 4·6 | - | 1 | 1 |
| | Wick | 1008.9 | -10 | WSW | 6 | c | 56 | 75 | 8 | 9 | 8 | - | 4·6 | 7·8 | 1500 | 1 | 3 |
| 16 | Lerwick | 1003.8 | -20 | SW | 8 | r.r. | 52 | 95 | 5 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| 17 | Blacksod Point | 1026.0 | -2 | SWW | 7 | q | 56 | 86 | 7 | 3 | - | - | 10 | 10 | 4150 | 0 | 5 |
| 18 | Malin Head | 1021.1 | -4 | SWW | 6 | c | 56 | 95 | 7 | 5 | 5 | 9 | 2·3 | 9 | 2500 | 0 | 4 |
| | Aldergrove | 1026.4 | -2 | SWS | 6 | o | 52 | 95 | 7 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| | Donaghadee | 1025.7 | +2 | SW | 3 | c | 56 | 85 | 7 | 5 | - | - | 7·8 | 7·8 | 1500 | 1 | 1 |
| 19 | Birr Castle | 1030.4 | -4 | SW | 3 | c | 53 | 95 | 7 | - | 2 | - | 0 | 10 | - | 1 | * |
| 20 | Valentia Obsy.† | 1032.7 | +4 | S | 4 | ir. | 52 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | * |
| | Roches Point | 1034.6 | -6 | SW | 4 | id. | 50 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 6 |

### PAST 24 HOURS.

| District | Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F. (32) | Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 24th Hrs. (36) |
|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 40 | 37 | 36 | - | 0·3 | 0·0 |
| | Croydon | 39 | 39 | 37 | - | Tr. | 0·0 |
| | S. Farnborough | 40 | 38 | 35 | - | 0·3 | 0·0 |
| | Winchester | 39 | 38 | 35 | - | 0·1 | 0·0 |
| | Boscombe Down | 38 | 36 | 30 | - | 0·5 | * |
| | Calshot, (S'thmtn) | 42 | 40 | 39 | - | - | 0·0 |
| | Dungeness | 41 | 40 | * | - | - | * |
| | Lympne | 37 | 36 | 35 | - | - | 0·0 |
| 2 | Shoeburyness | 39 | 37 | 36 | - | - | 0·0 |
| | Felixstowe | 38 | 36 | 33 | - | - | 0·0 |
| | Gorleston | 37 | 35 | 33 | - | 2 | 0·0 |
| | Cranwell | 40 | 35 | 34 | - | 3 | 1·4 |
| 3 | Birmingham | 39 | 34 | 31 | - | 6 | 1·4 |
| | Upper Heyford | 38 | 35 | 33 | | 2 | * |
| | Leafield | 37 | 34 | 32 | - | 2 | 0·0 |
| 4 | Ross-on-Wye | 39 | 38 | 34 | - | 7 | 0·3 |
| 5 | Portland Bill | 45 | 38 | * | - | - | * |
| | Plymouth | 46 | 39 | 45 | - | - | 0·0 |
| | Falmouth | 46 | 46 | * | - | - | 0·6 |
| | Scilly (St. Mary's) | 48 | 47 | * | - | - | 0·6 |
| | Guernsey | 39 | 39 | 38 | - | - | 4·5 |
| 6 | Pembroke | 48 | 47 | * | - | 1 | 0·0 |
| 7 | Holyhead | 50 | 48 | 46 | 0·2 | 11 | 0·0 |
| | Chester (Sealand) | 47 | 40 | 39 | 2 | 5 | 1·7 |
| 8 | L'pool (Bidston) | 46 | 41 | 39 | 1 | 4 | 1·3 |
| 9 | Harrogate | 41 | 40 | 38 | - | 0·1 | 0·0 |
| 10 | Spurn Head | 41 | 37 | * | - | 4 | 1·8 |
| | Catterick | 45 | 42 | 40 | - | - | * |
| | Tynemouth | 47 | 46 | 42 | 1 | - | |
| 11 | Inchkeith | 49 | 45 | 45 | 0·1 | 0·1 | 0·0 |
| | Leuchars | 48 | 47 | 45 | 0·2 | 0·1 | 0·0 |
| 12 | Renfrew | 47 | 47 | 45 | 2 | 6 | 0·0 |
| | Eskdalemuir | 45 | 43 | 43 | 14 | 13 | 0·0 |
| 13A | Tiree | 50 | 49 | 47 | 3 | 2 | 0·0 |
| 13B | Stornoway | 50 | 48 | * | Tr | 1 | 0·0 |
| 15 | Dalwhinnie | 45 | 43 | 42 | Tr | - | 0·1 |
| | Aberdeen | 47 | 47 | 46 | Tr | 3 | 0·0 |
| | Wick | 50 | 44 | * | - | 0·4 | * |
| 16 | Lerwick | 50 | 45 | * | 1 | 5 | 0·0 |
| 17 | Blacksod Point | 53 | 51 | * | 13 | 0·2 | * |
| 18 | Malin Head | 49 | 47 | * | 4 | 0·2 | 0·0 |
| | Aldergrove | 46 | 45 | 45 | 10 | 0·2 | 0·0 |
| | Donaghadee | 47 | 46 | * | 18 | 2 | * |
| 19 | Birr Castle | 48 | 48 | 46 | 7 | 2 | 0·0 |
| 20 | Valentia Obsy.† | 51 | 51 | 49 | 17 | 7 | 0·0 |
| | Roches Point | 50 | 49 | * | Tr | 4 | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon | Weather Night | Temperature Day Max. °F. | Temperature Night Min. °F. | Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. (Yesterday.) | Humidity 15h G.M.T. % (Yesterday.) | Humidity 9h. G.M.T. % (To-day.) | Visibility 9h. (To-day.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew | 18 | co3o | 0cm. | cm.or | 40 | 37 | 36 | - | 0·3 | 0·0 | * | * | 5 |
| Croydon | 217 | cm. | cm. | cm.wd. | 39 | 39 | 37 | - | Tr. | 0·0 | * | * | 6 |
| Greenwich (Royal Observatory) | 149 | c | c | co r. | 39 | 39 | 32 | - | Tr. | 0·0 | 75 | 83 | 6 |
| City (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0·0 | * | * | * |
| Westminster (St. James' Park) | 27 | * | * | * | (40) | 41 | 36 | 0·3 | | 0·0 | 77 | 85 | * |
| Regents Pk. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | 0·0 | * | * | * |
| Camden Square | 110 | c | c | * | 38 | 38 | 34 | - | Tr. | * | * | 86 | * |
| Kensington | 80 | co | co | * | 40 | 39 | 34 | - | 0·3 | 0·0 | At 18h. 77 | 91 | * |
| Hampstead Observatory | 450 | 0m | 0m | 0mr | 36 | 34 | 32 | Tr. | 0·5 | 0·0 | * | 93 | * |

**Atmospheric Pollution.** Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 24th

| South Kensington Max. | Time. | Min. | Time. | Kew Observatory Max. | Time. | Min. | Time. |
|---|---|---|---|---|---|---|---|
| 0·6 | 16h 23rd | Nil | 1-6h 24th | 0·3 | 19h 23rd | 0·1 | 4h 24th |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 23rd December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 24th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris | 1045.3 | SE | 2 | 0 | 28 | 1044.6 | SE | 3 | 0 | 27 | 30 | 27 | - | Tr. |
| Brussels | 1044.0 | WSW | 2 | 0 | 27 | 1041.7 | SSW | 3 | 0 | 27 | ? | 25 | - | Tr. |
| Berlin | 1040.9 | WSW | 3 | 3 | 25 | 1036.9 | WSW | 4 | 0f+ | 28 | 30 | 23 | - | - |
| Zürich | 1043.6 | NE | 1 | 0 | 21 | | | | | | 25 | | - | |
| Rome | | | | | | 1040.7 | NE | 1 | b | 23 | | 21 | | - |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13-18 | 9 | 47-54 |
| 1 | 1-3 | 5 | 19-24 | 10 | 55-63 |
| 2 | 4-7 | 6 | 25-31 | 11 | 64-75 |
| 3 | 8-12 | 7 | 32-38 | 12 | 75 |
| | | 8 | 39-46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | | Objects not visible at |
|---|---|---|
| 0 | Dense fog | 55 yards. |
| 1 | Thick fog | 220 " |
| 2 | Fog | 550 " |
| 3 | Moderate fog | 1,100 " |
| 4 | Mist or haze | 1¼ miles. |
| 5 | Poor visibility | 2½ " |
| 6 | Moderate " | 6½ " |
| 7 | Good " | 12½ " |
| 8 | Very good " | 31 " |
| 9 | Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | | | |
|---|---|---|---|
| 0 | Calm. | 5 | Very rough. |
| 1 | Smooth. | 6 | High. |
| 2 | Slight. | 7 | Very high. |
| 3 | Moderate. | 8 | Precipitous. |
| 4 | Rough. | 9 | Confused. |

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 25th December 1931.

No. 25600

| District | Stations (For heights see p. 4.) | Obs. 13h. G.M.T. 24th December: Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) | Obs. 18h. G.M.T. 24th December: Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) | Sunshine 23rd Hrs. (36) | Past 24 Hours Weather 7h.–13h. 24th (37) | 13h.–18h. 24th (38) | 18h. 24th to 1h. 25th (39) | 1h.–7h. 25th (40) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1037.0 | -16 | WSW | 4 | c | 49 | 85 | 6 | - | 7 | - | 0 | 9+ | - | 1036.1 | -6 | SW | 3 | c | 47 | 85 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * | 0.0 | cm. | c3. | c3. | cm. |
| | Croydon | 1037.4 | -8 | W'S | 4 | c | 49 | 75 | 6 | 5 | 7 | - | 2.3 | 9+ | 5700 | 1036.6 | 0 | W'S | 3 | c | 47 | 85 | 6 | 5 | 3 | - | 4-6 | 9+ | 2500 | 1 | * | 0.0 | cm.d. | cm. | | cod. |
| | S. Farnborough | 1037.3 | -10 | WSW | 3 | c | 49 | 85 | 7 | 5 | 3 | - | 7-8 | 9+ | 4000 | 1036.4 | -6 | WSW | 3 | c | 47 | 85 | 6 | 5 | 4- | - | 9+ | 9+ | 5700 | 1 | * | 0.0 | c r.c | c | cm. | o m. |
| | Winchester | 1037.6 | -16 | WSW | 3 | c | 49 | 85 | 7 | 5 | 7 | - | 7-8 | 7-8 | 5700 | 1037.3 | 0 | WSW | 2 | c | 46 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * | 0.0 | c r.c | c | c | c r. m. |
| | Boscombe Down | 1038.4 | -6 | WNW | 4 | c | 47 | 85 | 7 | 5 | 1 | - | 2.3 | 9+ | 2500 | 1037.4 | -2 | W | 3 | c | 44 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * | 0.0 | c ir.c | c | c c m. | c m. d. |
| | Calshot, S'thmtn | 1038.4 | -14 | WSW | 4 | c | 50 | 85 | 6 | 5 | 7 | - | 7-8 | 9+ | 4000 | 1037.9 | 0 | WSW | 3 | c | 46 | 85 | 7 | 5 | 3 | - | 7-8 | 9 | 4000 | 0 | 1 | * | c o ir | c m. | | c |
| | Dungeness | * | * | SW | 4 | c | * | * | 7 | 5 | 1 | * | 7-8 | 9+ | 2500 | * | * | SW | 4 | c | * | * | 6 | 5 | 3 | * | 7-8 | 9+ | 4000 | * | 2 | 0.0 | c | c | * | 0 |
| | Lympne | 1037.7 | -16 | WSW | 4 | o | 48 | 85 | 7 | 5 | - | - | 10 | 10 | 4000 | 1036.8 | +4 | WSW | 3 | c | 46 | 95 | 6 | 5 | 2 | - | 9 | 10 | 4000 | 1 | * | 0.0 | c m. c r. | c p r. c m. | | b c o d. |
| 2 | Shoeburyness | 1036.1 | -12 | SW'W | 4 | c | 49 | 85 | 6 | 5 | 7 | - | 7-8 | 9 | 4000 | 1035.0 | -4 | SW'W | 4 | c | 48 | 95 | 6 | 5 | 3 | - | 9 | 10 | 4000 | 0 | * | 0.0 | c r. r. m. c m. | c m. | c m. | c o m. |
| | Felixstowe | 1036.2 | -10 | W | 2 | c | 48 | 85 | 6 | 5 | 7 | 9 | 4-6 | 7-8 | 2500 | 1034.7 | -2 | W | 4 | c | 47 | 85 | 6 | 5 | 3 | - | 4-6 | 7-8 | 4000 | 2 | 2 | 0.0 | o m d. d. c 3. | c 3. | c 3. | c p r. c m. |
| | Gorleston | 1033.3 | -10 | W'N | 3 | c | 48 | 95 | 6 | - | 3 | - | 0 | 9+ | - | 1032.3 | 0 | W | 3 | c | 48 | 95 | 6 | 5 | 7 | - | 4-6 | 10 | 2500 | 0 | 2 | 0.0 | o r. c | c | c | c |
| | Cranwell | 1032.0 | -14 | WSW | 6 | c | 51 | 85 | 6 | 5 | 3 | 8 | 4-6 | 9+ | 800 | 1031.4 | -2 | WSW | 5 | c | 49 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * | 1.4 | c m. | c m. o | | c i d. |
| 3 | Birmingham | 1034.7 | -4 | WSW | 4 | c | 48 | 95 | 6 | 6 | 2 | - | 4-6 | 9 | 800 | 1033.7 | 0 | SW | 3 | c | 47 | 95 | 8 | 6 | - | - | 9+ | 9+ | 800 | 1 | * | * | c r. o | c | c | c |
| | Upper Heyford | 1036.3 | -10 | SW'W | 3 | o | 47 | 95 | 6 | 5 | - | - | 10 | 10 | 220 | 1035.1 | -4 | WSW | 3 | bc | 45 | 85 | 8 | 5 | 3 | - | 2.3 | 4-6 | 450 | 1 | * | 0.0 | o c r. | o c b c | b c c | c b c w |
| | Leafield | 1035.9 | -6 | WSW | 4 | o | 47 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | 1035.2 | -8 | WSW | 4 | c | 45 | 85 | 7 | - | 4 | 6 | 0 | 7-8 | - | 1 | * | 0.3 | o i r. | c | c | c |
| 4 | Ross-on-Wye | 1035.7 | -6 | SW | 2 | c | 50 | 85 | 7 | 5 | 7 | - | 9 | 9+ | 2500 | 1034.5 | -4 | SW | 3 | c | 48 | 85 | 6 | 5 | 4 | - | 2.3 | 7-8 | 4000 | 1 | * | * | c | c b c c | c c p. | b c c |
| 5 | Portland Bill | 1036.7 | -4 | W'S | 5 | c | 50 | 75 | 8 | 4 | 2 | - | 7-8 | 10 | 2500 | 1037.7 | -4 | W | 4 | bc | 49 | 75 | 8 | 4 | 7 | - | 4-6 | 7-8 | 2500 | 0 | 3 | 0.0 | c | c, b c | c | c |
| | Plymouth | 1039.9 | -6 | WSW | 5 | c | 50 | 85 | 7 | 5 | - | 6 | 7-8 | 9 | 1500 | 1039.0 | -2 | WNW | 4 | c | 49 | 85 | 6 | 5 | - | - | 9+ | (9+) | 1500 | 0 | 2 | 0.6 | c | c b c m. | c m. | o m. d. |
| | Falmouth | 1039.6 | -4 | WSW | 5 | q | 50 | 85 | 8 | 7 | - | - | 4-6 | 4-6 | 4000 | 1038.7 | 0 | W'S | 2 | c | 48 | 85 | 8 | 7 | - | - | 7-8 | 7-8 | 4000 | 0 | 2 | 0.6 | b c q | b c q | b c c | o d. m. |
| | Scilly (St. Mary's) | 1039.7 | -4 | WSW | 5 | c | 51 | 95 | 7 | 8 | - | 1 | 7-8 | 9 | 4000 | 1039.0 | 0 | W'S | 5 | c | 48 | 95 | 8 | 2 | - | - | 7-8 | 7-8 | 4000 | 0 | 4 | 4.5 | b c c | c | c | c |
| | Guernsey | 1040.7 | -8 | WNW | 3 | c | 50 | 85 | 7 | 8 | 2 | - | 4-6 | 10 | 2500 | 1039.4 | 0 | NW | 3 | c | 49 | 85 | 7 | 8 | 1 | - | 4-6 | 7-8 | 2500 | 0 | 2 | 0.0 | o c b e c | c | c | c o |
| 6 | Pembroke | 1035.8 | -2 | SSW | 3 | c | 50 | 95 | 6 | 3 | 6 | - | 7-8 | 10 | 1500 | 1034.8 | 0 | W'S | 4 | c | 51 | 95 | 6 | 3 | 6 | - | 7-8 | 10 | 1500 | 0 | 3 | 0.0 | c | c m. | c m. | c m. |
| 7 | Holyhead | 1031.3 | -6 | SW | 5 | q | 51 | 95 | 8 | 6 | - | - | 9+ | 9+ | 450 | 1031.0 | 0 | SW'W | 5 | c | 51 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 2 | 1.7 | c o d. q | c m. c | c m. d. | d d m. c c |
| | Chester (Sealand) | 1032.1 | -10 | SW'W | 4 | c | 54 | 75 | 8 | 5 | 2 | - | 7-8 | 9+ | 1500 | 1030.7 | -8 | SW'W | 5 | q | 51 | 85 | 7 | 5 | 1 | - | 7-8 | 9+ | 1500 | 1 | * | 1.3 | c q v | c q | c | o r. d. |
| 8 | L'pool (Bidston) | 1030.8 | -6 | W'S | 5 | c | 53 | 75 | 9 | 5 | 1 | - | 9 | 10 | 2500 | 1030.4 | 0 | WSW | 5 | q | 51 | 85 | 8 | 5 | - | - | 9 | 9 | 1500 | 0 | * | 0.0 | c q v | v c q c | c c q (00) | r r o o |
| 9 | Harrogate | 1028.5 | -6 | WSW | 7 | q | 51 | 95 | 6 | 6 | 2 | 8 | 1 | 9+ | 2500 | 1028.0 | 0 | SW'W | 6 | q | 52 | 85 | 6 | 6 | 2 | - | 9 | 10 | 2500 | 1 | * | 1.8 | c Q | c q i d. | c d d | c b c |
| 10 | Spurn Head | 1029.6 | 0 | SW | 4 | c | 50 | 95 | 6 | 5 | 3 | - | 4-6 | 9+ | 2500 | 1028.3 | -2 | WSW | 5 | c | 50 | 85 | 7 | 4 | 2 | - | 4-6 | 9+ | 4000 | 0 | 3 | * | b c | b e c | c | c p r c |
| | Catterick | 1027.2 | -10 | WSW | 5 | c | 53 | 85 | 8 | 5 | 7 | 2 | 2.3 | 9 | 1500 | 1026.2 | -10 | WSW | 5 | i d. | 54 | 85 | 6 | 5 | 2 | - | 7-8 | 9+ | 1500 | 1 | * | * | c q | c i d. m. | c i d. | b c w |
| | Tynemouth | 1023.0 | -6 | W | 4 | c | 55 | 85 | 7 | 2 | - | - | 7-8 | 7-8 | 2500 ~~4000~~ | 1023.6 | -2 | WSW | 4 | o | 56 | 85 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | 2 | 0.0 | o c q | c b c q | r | c b c |
| 11 | Inchkeith | 1018.3 | -18 | SW | 6 | bc | 56 | 85 | 8 | 5 | 8 | - | 4-6 | 4-6 | 4000 | 1018.3 | +24 | SW | 6 | i r. | 51 | 95 | 8 | 8 | - | - | 9 | 9 | 2500 | 0 | 3 | 0.0 | c b c | b e c | b c | b c |
| | Leuchars | 1017.8 | -14 | SW | 7 | i d. | 56 | 85 | 7 | 5 | - | 6 | 4-6 | 7-8 | 1500 | 1018.2 | +18 | W | 7 | q | 51 | 75 | 7 | 5 | 5 | 1 | 2.3 | 2.3 | 1500 | 1 | * | 0.0 | c i d. m. q | b c i d. r. q | b c b q | b q w |
| 12 | Renfrew | 1022.2 | -8 | SW'S | 6 | c l p r. | 54 | 85 | 7 | 6 | 3 | - | 9+ | 9+ | 800 | 1023.2 | +20 | WSW | 4 | r. r. | 48 | 95 | 7 | 6 | - | - | 10 | 10 | 800 | 1 | * | 0.0 | c p r. q | c q r. r r | o r. r. b o | b c q |
| | Eskdalemuir | 1024.6 | -12 | SW | 7 | d. d. | 50 | 95 | 3 | 5 | - | - | 10 | 10 | <1150 | 1023.0 | -6 | SW | 6 | r. r. | 51 | 95 | 5 | 5 | - | - | 10 | 10 | 220 | 1 | * | 0.0 | o d. d. f | o d. o r. | o r. c | c |
| 13A | Tiree | 1018.4 | -10 | WSW | 6 | o/R | 50 | 95 | 6 | 6 | 2 | - | 4-6 | 10 | 1500 | 1022.2 | +26 | W | 5 | c | 47 | 75 | 7 | 5 | 3 | - | 4-6 | 9 | 2500 | 1 | 4 | 0.0 | c i R d | c p r. | c p r. | p r. |
| 13B | Stornoway | 1011.1 | +20 | W | 6 | c | 47 | 95 | 8 | 6 | 2 | - | 7-8 | 9+ | 1500 | 1016.5 | +40 | W | 4 | c | 42 | 95 | 8 | 6 | 7 | - | 4-6 | 7-8 | 2500 | 1 | 2 | * | c p r, c q | c P R q | c p r q | c p r o q |
| 15 | Dalwhinnie | 1015.7 | 12 | SW | 6 | i r. | 52 | 85 | 8 | 4 | 3 | 2 | 4-6 | 7-8 | 1500 | 1022.8 | +20 | W | 3 | r | 43 | 85 | 6 | 3 | 4 | - | 4-6 | 10 | 800 | 1 | * | * | i r | r | | i r |
| | Aberdeen | 1013.4 | -18 | SW | 4 | b c | 61 | 55 | 8 | 1 | - | 9 | 2.3 | 4-6 | 2500 | 1017.5 | +40 | WNW | 4 | b c | 51 | 65 | 8 | 7 | 4 | 9 | T r | 2.3 | 2500 | 1 | 1 | 0.0 | c b c | c p r. b | b | b |
| | Wick | 1008.6 | -6 | WSW | 7 | c l p r | 53 | 95 | 8 | 9 | 1 | - | 4-6 | 7-8 | 1500 | 1013.5 | +20 | WSW | 4 | c | 43 | 75 | 8 | 8 | 1 | - | ~~7-8~~ 4-6 | 9+ | 1500 | 1 | 3 | * | c p r | c p r c | c p r. b c | b c |
| 16 | Lerwick | 1002.1 | -2 | WSW | 7 | i r | 50 | 85 | 6 | 6 | 2 | - | 7-8 | 10 | 800 | 1004.1 | +38 | WSW | 8 | p r | 44 | 75 | 7 | 9 | 1 | - | 7-8 | 7-8 | 1500 | 2 | * | 0.0 | o r. r. i r | o r c p r | c b c c p r | c p r o i r |
| 17 | Blacksod Point | 1026.2 | +10 | SW'W | 7 | q | 54 | 95 | 6 | 6 | - | - | 10 | 10 | <1150 | 1028.5 | +20 | W | 4 | d d | 54 | 95 | 6 | 6 | - | - | 10 | 10 | <1150 | 1 | 3 | 0.0 | o q | i d | i d | p r |
| 18 | Malin Head | 1020.8 | -8 | SW'W | 7 | c | 56 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1025.2 | +22 | W | 6 | d r | 48 | 95 | 7 | 6 | 2 | - | 9 | 10 | 1500 | 1 | 4 | 0.0 | c é | c i d r | c d r c b c | b c c |
| | Aldergrove | 1026.2 | -2 | SSW | 5 | c | 54 | 85 | 6 | 6 | 7 | - | 9 | 10 | 450 | 1027.0 | +14 | WSW | 4 | d o d. | 51 | 95 | 6 | 6 | - | - | 10 | 10 | 450 | 1 | * | * | c m. | c i d. K Q r | o r. c | c o |
| | Donaghadee | 1025.4 | -8 | SW | 6 | q | 56 | 85 | 8 | 8 | 3 | 2 | 2.3 | 4-6 | 2500 | 1025.6 | +4 | SW | 4 | c | 55 | 95 | 7 | 5 | - | - | 7-8 | 7-8 | 2500 | 0 | 2 | 0.0 | c b c q | b c c | c i r. | c i r. c |
| 19 | Birr Castle | 1031.1 | 0 | SW | 3 | c | 54 | 95 | 7 | 5 | 2 | - | 9 | 10 | 1500 | 1030.3 | +2 | SW | 3 | i r. | 53 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * | 0.0 | c | c o i r. | o i r. | o i r. |
| 20 | Valentia Obsy. | 1034.1 | -2 | S'W | 5 | o | 52 | 95 | 7 | 5 | - | - | 10 | 10 | 800 | 1034.1 | +6 | SW'S | 5 | i d. | 53 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 4 | 0.0 | o r. r. o | o i d. | i d. | i r r. r. o |
| | Roches Point | 1035.6 | +8 | SW | 3 | i d. | 51 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1035.1 | 0 | SW | 3 | i d. | 51 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 | 0.0 | o i d. | o i d. | o i d. | o d c i r c |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s$_o$, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s$_o$/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus.
R, heavy rain. r$_o$, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ☾, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"t r" signifies a small amount of cloud (trace) covering less than 1/10 of the sky.
"9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

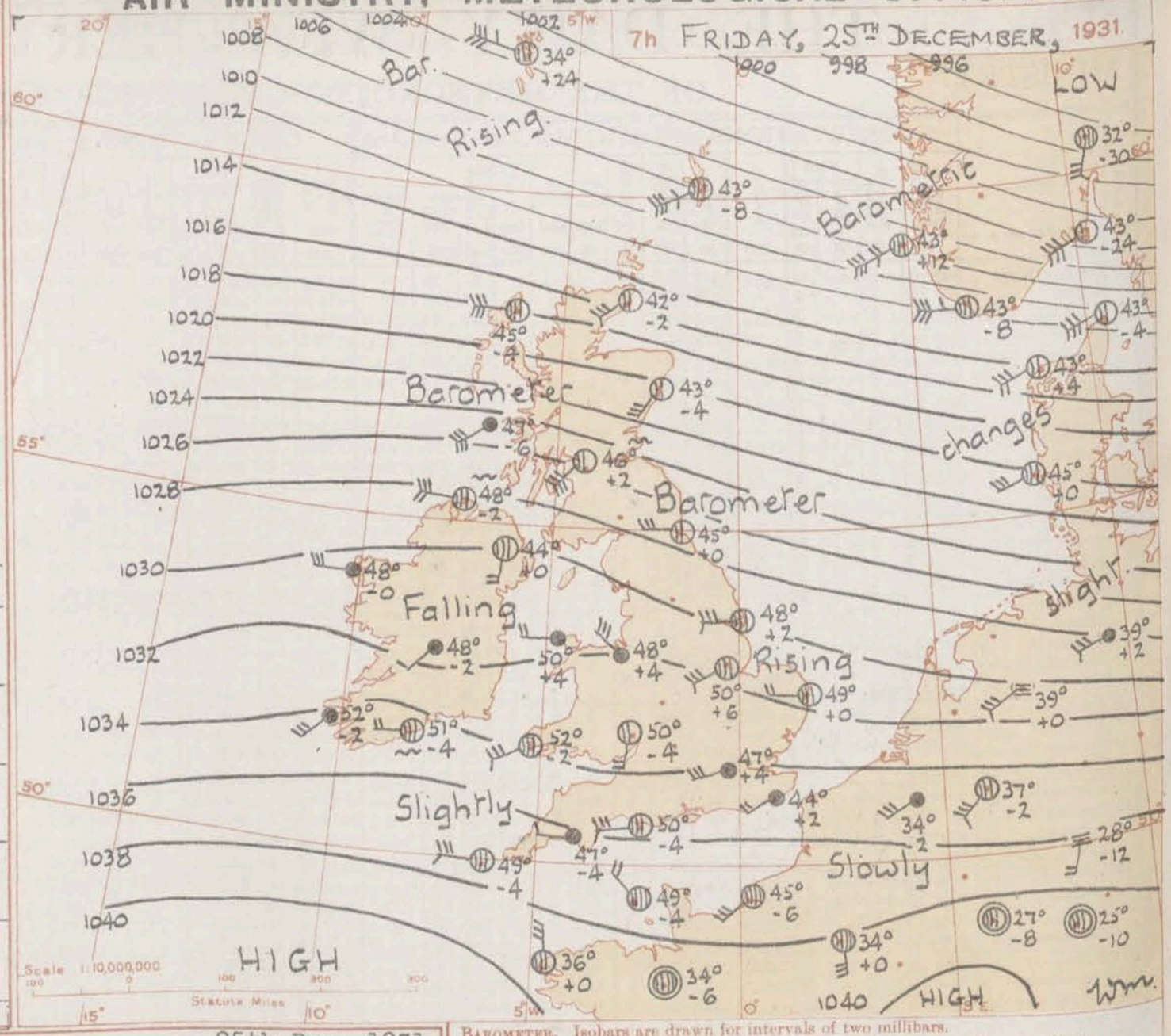
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for ...24th December.....1931.

| Districts. | Stations. | Weather. Fore-noon. | Weather. After-noon. | Temperature. Min. 9h. 23rd to 9h. 24th | Temperature. Max. 9h.—17h. ..24th.... | Rainfall. Night. 17h. 23rd to 9h. 24th | Rainfall. Day. 9h.—17h. ..24th.... | Sunshine. Sunrise to Sunset. ...24th... |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | o | oc | 36 | 49 | 0·3 | – | 0·0 |
| | Bournemouth | o | o | 39 | 50 | – | – | 0·0 |
| | Ventnor ... | oudo | ouc | 38 | 50 | Trace | Trace | 0·0 |
| | Southsea ... | om | cm | 37 | 49 | 0·2 | – | 0·0 |
| | Bognor Regis | co | ro | 37 | 49 | Trace | 1 | 0·0 |
| | Littlehampton | cr.c | c | 37 | 49 | Trace | 0·4 | 0·0 |
| | Worthing ... | cod. | oc | 38 | 50 | Trace | 0·5 | 0·0 |
| | Brighton ... | cdc | oc | 39 | 48 | Trace | Trace | 0·0 |
| | Eastbourne† | oir.o | or.o | 40 | 50 | – | 0·1 | 0·0 |
| | Hastings† ... | co | oc | 40 | 51 | – | – | 0·0 |
| | Folkestone ... | coid. | od.m. | 37 | 49 | – | Trace | 0·0 |
| | Dover... ... | ir.c | co | 38 | 49 | Trace | Trace | 0·0 |
| | Deal ... ... | o | co | 36 | 50 | – | – | 0·0 |
| | Ramsgate ... | od.c | c | 36 | 50 | – | Trace | 0·0 |
| | Margate ... | cd | c | 35 | 50 | Trace | Trace | 0·0 |
| 2 | Southend ... | oec | c | 36 | 48 | 0·2 | – | 0·0 |
| | Maldon ... | rodc | c | 35 | 50 | 0·3 | Trace | 0·0 |
| | Clacton-on-Sea | corc | c | 35 | 48 | – | 1 | 0·0 |
| | Dovercourt ... | roc | robcc | 35 | 49 | 1 | 1 | 0·2 |
| | Lowestoft ... | c | cbc | 32 | 47 | 3 | – | 0·0 |
| | Skegness ... | obcm. | om. | 35 | 52 | 3 | – | 0·7 |
| | Mablethorpe | c | c | 36 | 51 | 3 | – | 0·0 |
| | Cleethorpes ... | bc | c | 34 | 51 | 2 | – | 0·0 |
| 3 | Leamington S. | o | o | 34 | 50 | 2 | – | 0·0 |
| 4 | Cheltenham† | oc | cbcm. | 35 | 49 | 5 | – | 0·0 |
| 5 | Bath ... ... | c | c | 38 | 51 | 2 | – | 0·0 |
| | Weymouth ... | c | c | 40 | 51 | – | – | 0·0 |
| | Jersey ... | cbc | bcc | 34 | 50 | – | – | 0·7 |
| | Torquay ... | cbc | c | 38 | 53 | – | – | 2·2 |
| | Penzance ... | cb | bc | 44 | 53 | – | – | 3·7 |
| | St. Ives ... | c | c | 41 | 51 | – | – | 2·4 |
| | Bude ... ... | c | c | 43 | 51 | – | – | 0·0 |
| | Ilfracombe ... | b | o | 38 | 51 | – | – | 0·0 |
| 6 | Aberystwyth | crrod | oidoe | 42 | 49 | 16 | 2 | 0·0 |
| 7 | Llandudno ... | c | c | 45 | 52 | 0·1 | – | 0·0 |
| | Colwyn Bay... | c | c | 45 | 56 | – | – | 0·0 |
| | Rhyl ... ... | c | c | 44 | 54 | – | – | 0·0 |
| 8 | Wallasey ... | c | c | 38 | 54 | 4 | – | 0·0 |
| | Southport‖ ... | odo | odo | 41 | 51 | 7 | 0·1 | 0·0 |
| | Blackpool ... | o | op | 37 | 50 | 11 | 0·5 | 0·0 |
| | Morecambe ... | rpco | dpco | 37 | 50 | 26 | Trace | 0·0 |
| 9 | Ilkley... ... | oc | c.c | 37 | 52 | Trace | Trace | 0·0 |
| 10 | Berwick-on-T. | obc | c | 45 | 54 | Trace | – | 0·0 |
| 11 | Dunbar ... | bc | bc | 47 | 59 | 0·3 | – | 2·3 |
| 12 | Douglas ... | om. | om.id | 45 | 53 | 9 | Trace | 0·0 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

## AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/8 clouded. ◑ Sky 1/8 to 4/8 clouded. ◕ Sky 5/8 to 7/8 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ⚌ Mist. T Thunder. K Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 25th Dec., 1931. |
|---|---|
| 1. S.E. England<br>2. E. England<br>3. E. Midlands<br>4. W. Midlands | Wind mainly westerly, moderate; mainly cloudy, occasional slight drizzle locally; mild. |
| 5. S.W. England<br>6. South Wales<br>7. North Wales<br>8. N.W. England | Wind west or southwest, moderate, mainly cloudy; occasional slight drizzle locally; mild. |
| 9. N. Midlands<br>10. N.E. England<br>11. S.E. Scotland | Wind between southwest and west, moderate or fresh; bright periods, showers; cooler but still rather mild. |
| 12. S.W. Scotland & Isle of Man<br>13. A. W. Scotld. B. N.W. Scotland<br>14. Mid-Scotland<br>15. N.E. Scotland | Wind between southwest and west, fresh, strong at times locally; variable cloud, some showers; cooler but still rather mild. |
| 16. Orkneys and Shetlands. | ▼ Wind westerly, strong to a gale, moderating; variable sky, some showers; moderate temperature. |
| 17. N.W. Ireland<br>18. N.E. Ireland | Wind between west and southwest, moderate or fresh, variable sky, some showers; cooler but still rather mild. |
| 19. S.E. Ireland<br>20. S.W. Ireland | Wind west or southwest, moderate; mainly cloudy, some slight rain; rather mild. |

### GENERAL INFERENCE.

Pressure is high to the south and low to the northeast of the British Isles. Winds will be mainly westerly, strong to a gale at first in the extreme north and in the northern half of North Sea and weather rather unsettled.

Time of issue of Gale Warning.
▼ South Cone at 0810 on 22nd in district 16.

### FURTHER OUTLOOK.

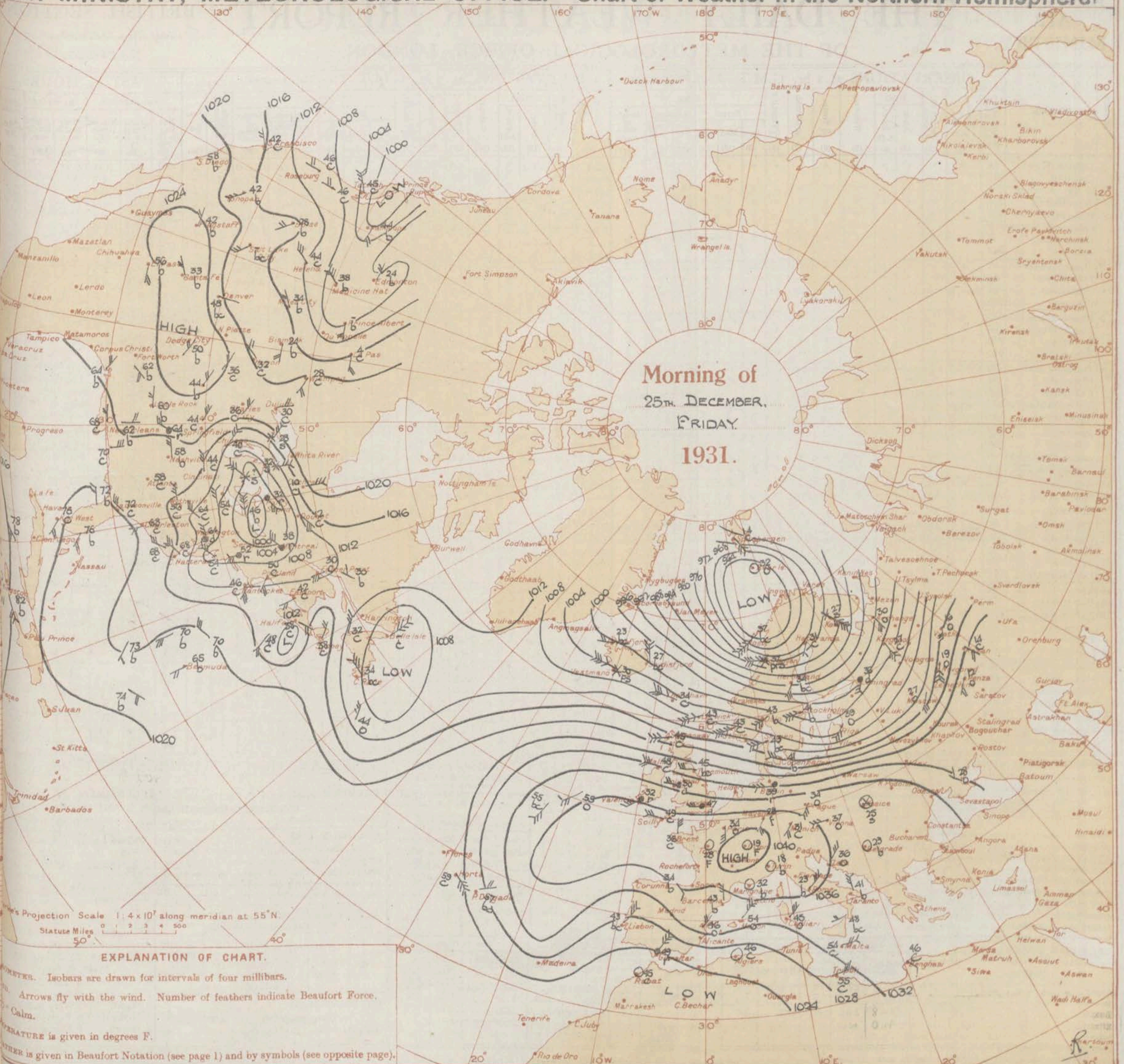
None issued.

Forecasts issued at 1130 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.




EXPLANATION OF CHART.

...METERS. Isobars are drawn for intervals of four millibars.

... Arrows fly with the wind. Number of feathers indicate Beaufort Force.

... = Calm.

...PERATURE is given in degrees F.

...THER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 25th December 1931.

No. 25600

### OBSERVATIONS at 1 hr. G.M.T. 25th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | | | | | | | | | | | | | | |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot, (S'thmtn) | 8 | | | | | | | | | | | | | | |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | | | | | | | | | | | | | | |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1031·6 | -4 | W | 2 | c | 47 | 95 | 7 | - | 3 | - | 0 | 9 | - |
| | Cranwell | 240 | | | | | | | | | | | | | | |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1036·9 | -6 | W | 4 | c | 49 | 85 | 8 | 4 | 7 | - | 4-6 | 10 | 2500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1038·4 | 0 | W'N | 3 | c | 47 | 85 | 7 | 5 | - | - | 9 | 9 | 4000 |
| | Scilly (St. Mary's) | 163 | 1038·7 | 0 | W | 4 | c | 48 | 95 | 8 | 7 | 4 | - | 9 | 9 | 4000 |
| | Guernsey | 175 | 1038·0 | -8 | NW | 4 | c | 49 | 85 | 7 | 8 | 2 | - | 7-8 | 10 | 2500 |
| 6 | Pembroke | 142 | 1034·2 | 0 | WSW | 5 | c | 52 | 95 | 6 | 5 | 6 | - | 7-8 | 9+ | 4000 |
| 7 | Holyhead | 26 | | | | | | | | | | | | | | |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1028·5 | 0 | W'S | 4 | c | 49 | 95 | 7 | - | 7 | 9 | 0 | 9 | - |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1027·0 | +20 | WNW | 2 | c | 48 | 85 | 7 | 5 | - | - | 7-8 | 7-8 | 1500 |
| 11 | Inchkeith | 190 | 1024·5 | +10 | WSW | 5 | bc | 46 | 95 | 7 | 5 | - | - | 2-3 | 2-3 | 1500 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1018·9 | +6 | W | 6 | c | 45 | 85 | 8 | 3 | 6 | - | 4-6 | 7-8 | 2500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1017·2 | +8 | WSW | 4 | bc | 42 | 65 | 8 | 5 | - | - | 2-3 | 2-3 | 2500 |
| 16 | Lerwick | 54 | 1007·5 | +4 | WSW | 8 | pr | 44 | 65 | 7 | 8 | - | - | 7-8 | 7-8 | 1500 |
| 17 | Blacksod Point | 18 | 1031·2 | +8 | W | 2 | bc | 48 | 85 | 7 | 5 | - | - | 4-6 | 4-6 | 450 |
| 18 | Malin Head | 52 | 1028·5 | +6 | W | 5 | bc | 47 | 85 | 7 | 2 | - | - | 2-3 | 2-3 | 4000 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | | | | | | | | | | | | | | |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 25th December

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1034·5 | 0 | WSW | 3 | c | 49 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Croydon | 1034·6 | +4 | W | 3 | id₀ | 47 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| S. Farnborough | 1034·7 | -2 | W'S | 2 | id₀ | 48 | 95 | 6 | 5 | - | - | 10 | 10 | ~~800~~ 450 | 1 | * |
| Winchester | 1035·3 | -2 | W'N | 3 | i₀ | 48 | 95 | 6 | 6 | 2 | - | 7-8 | 10 | 1500 | 1 | * |
| Boscombe Down | 1035·5 | +2 | W | 3 | id₀ | 48 | 95 | 5 | 5 | - | - | 10 | 10 | 450 | 1 | * |
| Calshot, (S'thmtn) | 1035·8 | -6 | W'S | 3 | c | 48 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | 1 |
| Dungeness | * | * | WSW | 1 | 0 | * | * | 6 | 5 | - | * | 10 | 10 | 1500 | * | 1 |
| Lympne | 1035·0 | +2 | WSW | 2 | id₀ | 44 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Shoeburyness | 1033·9 | +4 | W | 2 | 0 | 48 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 | 0 | * |
| Felixstowe | 1033·4 | 0 | W'S | 3 | c | 50 | 95 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | 2 |
| Gorleston | 1031·4 | 0 | W'N | 2 | c | 49 | 95 | 6 | - | 5 | - | 0 | 7-8 | - | 0 | 2 |
| Cranwell | 1031·3 | +6 | W'S | 4 | c\|d₀ | 50 | 95 | 6 | 6 | - | - | 9+ | 9+ | 1500 | 1 | * |
| Birmingham | 1033·0 | +2 | SW | 2 | c | 49 | 95 | 8 | 6 | - | - | 9+ | 9+ | 800 | 1 | * |
| Upper Heyford | 1033·7 | +4 | W | 1 | bc | 47 | 95 | 6 | 5 | 7 | 1 | 2-3 | 4-6 | 800 | 1 | * |
| Leafield | 1033·7 | 0 | WSW | 2 | c | 47 | 95 | 7 | 5 | - | - | 7-8 | 7-8 | 2500 | 1 | * |
| Ross-on-Wye | 1033·4 | -4 | SSW | 2 | c | 50 | 85 | 8 | 4 | 8 | 2 | 2-3 | 7-8 | 4000 | 1 | * |
| Portland Bill | 1035·7 | -4 | W'S | 4 | c | 49 | 95 | 8 | 4 | 7 | - | 4-6 | 10 | 2500 | 0 | 3 |
| Plymouth | 1036·6 | -4 | W | 1 | id₀ | 47 | 95 | 5 | 5 | - | - | 10 | 10 | 450 | 0 | 1 |
| Falmouth | 1037·0 | -2 | - | 0 | id₀ | 48 | 95 | 6 | 5 | 2 | - | 4-6 | 10 | 4000 | 1 | 0 |
| Scilly (St. Mary's) | 1037·5 | -4 | W'N | 4 | c | 49 | 95 | 8 | 5 | - | - | 7-8 | 7-8 | 4000 | 0 | 2 |
| Guernsey | 1036·9 | -4 | NW | 2 | 0 | 49 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | 2 |
| Pembroke | 1033·5 | -2 | W | 4 | c | 52 | 95 | 6 | 5 | - | - | 10 | 10 | 4000 | 0 | 3 |
| Holyhead | 1031·9 | +4 | W'N | 2 | id₀ | 50 | 95 | 6 | 6 | - | - | 10 | 10 | 450 | 1 | 0 |
| Chester (Sealand) | 1032·2 | +4 | NW'N | 3 | d₀d₀ | 48 | 95 | 6 | 5 | 1 | - | 7-8 | 9+ | 1500 | 1 | * |
| L'pool (Bidston) | 1031·7 | +6 | W'N | 3 | 0 | 47 | 95 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Harrogate | 1029·8 | 0 | WSW | 2 | bc | 44 | 85 | 7 | - | - | 4 | 0 | 4-6 | - | 1 | * |
| Spurn Head | 1030·0 | +2 | W'N | 4 | c | 48 | 95 | 7 | 3 | 7 | - | 4-6 | 7-8 | 2500 | 1 | 3 |
| Catterick | 1029·5 | +6 | NNW | 3 | c | 44 | 75 | 8 | 5 | - | 2 | 1 | 7-8 | 4000 | 1 | * |
| Tynemouth | 1027·1 | 0 | W | 3 | bc | 45 | 75 | 7 | 2 | - | 2 | 2-3 | 4-6 | 2500 | 1 | 2 |
| Inchkeith | 1023·8 | -2 | SW | 6 | bc | 46 | 75 | 8 | 5 | 8 | - | 4-6 | 4-6 | 4000 | 0 | 4 |
| Leuchars | 1023·0 | 0 | W | 5 | bc | 44 | 75 | 8 | 4 | - | - | 2-3 | 2-3 | 2500 | 0 | * |
| Renfrew | 1025·4 | +2 | W | 6 | 4 | 46 | 95 | 7 | 8 | - | - | 2-3 | 2-3 | 2500 | 1 | * |
| Eskdalemuir | 1028·0 | +4 | S | 3 | c | 41 | 85 | 8 | 5 | - | - | 9 | 9 | 2500 | 1 | * |
| Tiree | 1025·5 | -6 | W'S | 6 | pr₀ | 47 | 75 | 7 | 8 | - | 3 | 7-8 | 9 | 1500 | 1 | 3 |
| Stornoway | 1018·5 | -4 | W | 6 | c\|pr | 45 | 95 | 8 | 9 | 2 | - | 4-6 | 9+ | 2500 | 1 | 3 |
| Dalwhinnie | 1023·5 | 0 | NW | 5 | c | 40 | 85 | 8 | 4 | 5 | - | 4-6 | 7-8 | 800 | 1 | * |
| Aberdeen | 1020·8 | -4 | SW | 3 | bc | 43 | 65 | 7 | 5 | - | 9 | 1 | 4-6 | 2500 | 1 | 1 |
| Wick | 1015·8 | -2 | WSW | 4 | bc | 42 | 85 | 8 | 8 | - | - | 2-3 | 2-3 | 2500 | 1 | 3 |
| Lerwick | 1007·1 | -8 | WSW | 8 | c\|r | 43 | 85 | 7 | 6 | 2 | - | 4-6 | 10 | 1500 | 2 | * |
| Blacksod Point | 1031·1 | 0 | W | 3 | pr | 48 | 95 | 8 | 3 | - | - | 4-6 | 4-6 | 1500 | 1 | 3 |
| Malin Head | 1028·3 | -2 | W'N | 5 | c | 48 | 75 | 7 | 5 | - | - | 9+ | 9+ | 4000 | 0 | 4 |
| Aldergrove | 1030·6 | 0 | SSW | 2 | c | 44 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| Donaghadee | 1030·2 | +2 | WSW | 2 | c | 46 | 85 | 7 | 8 | - | - | 7-8 | 7-8 | 2500 | 0 | 1 |
| Birr Castle | 1031·0 | -2 | SW | 1 | ~~c~~ | 48 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | * |
| Valentia Obsy.† | 1034·2 | -2 | SW | 3 | r₀r₀ | 52 | 95 | 7 | 6 | - | - | 10 | 10 | 800 | 1 | - |
| Roches Point | 1034·7 | -4 | W | 2 | c | 51 | 95 | 8 | 3 | - | - | 9 | 9 | 2500 | 1 | 4 |

### PAST 24 HOURS.

| Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F (32) | Temperature Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 24 hrs. (36) |
|---|---|---|---|---|---|---|
| London (Kew) | 49 | 46 | 44 | 0·4 | - | 0·0 |
| Croydon | 49 | 45 | 43 | Tr | Tr | 0·0 |
| S. Farnborough | 49 | 45 | 41 | Tr | Tr | 0·1 |
| Winchester | 49 | 44 | 44 | 0·2 | Tr | 0·0 |
| Boscombe Down | 47 | 43 | 42 | 0·2 | Tr | * |
| Calshot, (S'thmtn) | 50 | 43 | 38 | 0·4 | - | 0·0 |
| Dungeness | 49 | 44 | * | - | - | * |
| Lympne | 48 | 41 | 39 | 0·1 | Tr | 0·0 |
| Shoeburyness | 49 | 44 | 43 | 0·1 | - | 0·1 |
| Felixstowe | 49 | 44 | 42 | 1 | Tr | 0·0 |
| Gorleston | 50 | 47 | 45 | 0·2 | - | 0·0 |
| Cranwell | 51 | 48 | 47 | - | Tr | 0·1 |
| Birmingham | 49 | 47 | 45 | 0·1 | - | 0·0 |
| Upper Heyford | 48 | 42 | 34 | 0·3 | - | * |
| Leafield | 48 | 43 | 38 | 1 | - | 0·0 |
| Ross-on-Wye | 51 | 48 | 45 | - | 0·1 | 0·4 |
| Portland Bill | 50 | 48 | * | - | - | * |
| Plymouth | 51 | 47 | 46 | - | Tr | 1·1 |
| Falmouth | 52 | 47 | * | - | Tr | 4·9 |
| Scilly (St. Mary's) | 52 | 47 | * | - | - | 2·9 |
| Guernsey | 51 | 48 | 43 | - | - | 0·4 |
| Pembroke | 51 | 50 | * | - | - | 0·0 |
| Holyhead | 52 | 50 | 48 | Tr | 0·6 | 0·0 |
| Chester (Sealand) | 54 | 48 | 47 | - | 2 | 0·2 |
| L'pool (Bidston) | 53 | 47 | 46 | - | 1 | 0·0 |
| Harrogate | 52 | 44 | 38 | Tr | 1 | 0·0 |
| Spurn Head | 50 | 48 | * | - | 2 | 0·0 |
| Catterick | 54 | 44 | 37 | Tr | 0·3 | * |
| Tynemouth | 57 | 45 | 38 | - | 0·3 | * |
| Inchkeith | 57 | 41 | 42 | Tr | - | 1·1 |
| Leuchars | 57 | 41 | 36 | 0·2 | - | 0·7 |
| Renfrew | 56 | 44 | 39 | 3 | 1 | 0·0 |
| Eskdalemuir | 51 | 41 | 39 | 2 | 1 | 0·0 |
| Tiree | 54 | 45 | 40 | 1 | Tr | 0·0 |
| Stornoway | 54 | 41 | * | 2 | 1 | 0·0 |
| Dalwhinnie | 54 | 38 | 30 | 11 | 2 | 0·0 |
| Aberdeen | 61 | 37 | 27 | Tr | - | 3·3 |
| Wick | 57 | 38 | * | 0·2 | Tr | * |
| Lerwick | 52 | 40 | * | 4 | 6 | 0·0 |
| Blacksod Point | 56 | 47 | * | 1 | 1 | * |
| Malin Head | 56 | 46 | * | 2 | 1 | 0·0 |
| Aldergrove | 54 | 43 | 38 | 0·3 | 0·2 | 0·0 |
| Donaghadee | 57 | 42 | * | - | 2 | * |
| Birr Castle | 54 | 48 | 48 | 0·1 | 1 | 0·0 |
| Valentia Obsy.† | 53 | 52 | 51 | 1 | 3 | 0·0 |
| Roches Point | 51 | 50 | * | 2 | 6 | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon (24 hrs. ended 9h.) | Weather Night (24 hrs. ended 9h.) | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew | 18 | cm₀ | c3₀ | c3₀cm₀ | 49 | 46 | 44 | 0·4 | - | 0·0 | * | * | |
| Croydon | 217 | cm₀d₀ | cm₀ | cod₀ | 49 | 45 | 43 | Tr | Tr | 0·0 | * | * | 4 |
| Greenwich (Royal Observatory) | 149 | c | c | cd₀fc | 50 | 46 | 41 | - | Tr | 0·0 | 80 | 97 | 3 |
| City (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0·0 | * | * | * |
| Westminster (St. James' Park) | 27 | * | * | * | | | | | | 0·0 | | * | * |
| Regents Pk. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | | * | * | * |
| Camden Square | 110 | c | c | * | 49 | 46 | 45 | - | - | * | * | 96 | * |
| Kensington | 80 | co | bcc | * | 49 | 47 | 43 | - | - | 0·0 | At 18h. 91 | 94 | * |
| Hampstead Observatory | 450 | om | omd | om | 47 | 43 | 41 | Tr | 0·3 | 0·0 | * | 97 | * |

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 25th

| South Kensington Max. | Time. | Min. | Time. |
|---|---|---|---|
| 0·6 | 17-18h 24th | N/7 | 3-6h 25th |

| Kew Observatory Max. | Time. | Min. | Time. |
|---|---|---|---|
| 0·2 | 11h 24th | <0·1 | 2h 25th |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 24th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 25th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris | 1041·9 | SSW | 3 | f | 30 | 1038·3 | S | 3 | m | 34 | 32 | 30 | - | - |
| Brussels | 1037·5 | SW | 4 | o | 32 | 1035·5 | WSW | 3 | df | 34 | 32 | 32 | Tr | 1 |
| Berlin | 1031·8 | SW | 3 | DD | 30 | | | | | | 30 | | 1 | |
| Zurich | 1041·0 | NW | 1 | m | 25 | 1039·5 | S | 1 | m | 25 | 25 | 23 | - | - |
| Rome | | | | | | 1036·6 | ENE | 3 | b | 23 | | 21 | | - |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13-18 | 9 | 47-54 |
| 1 | 1-3 | 5 | 19-24 | 10 | 55-63 |
| 2 | 4-7 | 6 | 25-31 | 11 | 64-75 |
| 3 | 8-12 | 7 | 32-38 | 12 | 75 |
| | | 8 | 39-46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | Objects not visible at |
|---|---|
| 0 Dense fog | 55 yards. |
| 1 Thick fog | 220 " |
| 2 Fog | 550 " |
| 3 Moderate fog | 1,100 " |
| 4 Mist or haze | 1¼ miles. |
| 5 Poor visibility | 2½ " |
| 6 Moderate " | 6½ " |
| 7 Good " | 12½ " |
| 8 Very good " | 31 " |
| 9 Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | |
|---|---|
| 0 Calm. | 5 Very rough. |
| 1 Smooth. | 6 High. |
| 2 Slight. | 7 Very high. |
| 3 Moderate. | 8 Precipitous. |
| 4 Rough. | 9 Confused. |

TERMS OF SUBSCRIPTION. { Single Copies, 1d. each; by post 1½d. 2/6 per month; 6/6 per quarter; 25/- per year.

METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY, LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

Page 1.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 26th December 1931.

No. 25 001

### OBSERVATIONS at 13h. G.M.T. 25th December

| District | Stations (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Amount Low 0-10 (12) | Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew)... | 1033.4 | -10 | SW | 2 | o | 51 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 |
| | Croydon ... | 1033.8 | -10 | W | 3 | d₀d₀ | 50 | 95 | 4 | 5 | - | - | 10 | 10 | 220 |
| | S. Farnborough | 1033.5 | -14 | W'S | 2 | id₀ | 50 | 95 | 5 | 5 | - | - | 10 | 10 | 220 |
| | Winchester ... | 1034.1 | -12 | W'N | 4 | id₀ | 50 | 95 | 6 | 5 | - | - | 10 | 10 | 450 |
| | Boscombe Down | 1034.4 | -10 | WNW | 3 | id₀ | 50 | 95 | 5 | 5 | - | - | 10 | 10 | 800 |
| | Calshot, S'thmtn | 1035.0 | -2 | W'S | 2 | c | 51 | 95 | 6 | 5 | - | - | 10 | 10 | 2500 |
| | Dungeness ... | * | * | WSW | 2 | o | * | * | 4 | 5 | - | * | 10 | 10 | 800 |
| | Lympne ... | 1034.0 | -14 | WSW | 2 | F | 47 | 95 | 1 | 5 | - | - | 10 | 10 | <150 |
| 2 | Shoeburyness | 1033.0 | -4 | W'S | 3 | o | 50 | 95 | 4 | 5 | - | - | 10 | 10 | 800 |
| | Felixstowe ... | 1032.5 | -18 | WSW | 2 | c | 48 | 95 | 6 | 5 | - | - | 9 | 9 | 2500 |
| | Gorleston ... | 1031.0 | -6 | W | 2 | c | 51 | 95 | 6 | 6 | 2 | - | 7.8 | 10 | 2600 |
| | Cranwell ... | 1030.8 | -6 | WSW | 3 | c | 50 | 85 | 6 | 5 | - | - | (7.8) | (7.8) | 1500 |
| 3 | Birmingham ... | 1032.2 | -8 | W | 3 | c | 51 | 95 | 7 | 6 | 2 | - | 4.6 | 9+ | 800 |
| | Upper Heyford | 1032.8 | -14 | SW | 3 | c | 50 | 95 | 6 | 5 | - | - | 9+ | 9+ | 450 |
| | Leafield ... | 1032.6 | -8 | SW'W | 3 | o | 49 | 95 | 4 | 5 | - | - | 10 | 10 | 220 |
| 4 | Ross-on-Wye ... | 1032.3 | +6 | W'N | 2 | c | 56 | 85 | 8 | 8 | 6 | 1 | 7.8 | 9 | 4000 |
| 5 | Portland Bill... | 1034.0 | -10 | WNW | 3 | c | 51 | 95 | 6 | 4 | 7 | - | 4.6 | 10 | 2500 |
| | Plymouth ... | 1036.2 | -6 | W | 2 | o | 51 | 95 | 6 | 5 | - | - | 10 | 10 | 450 |
| | Falmouth ... | 1036.2 | -2 | NW'W | 3 | d₀d₀ | 50 | 95 | 6 | 5 | - | - | 10 | 10 | 2500 |
| | Scilly (St. Mary's) | 1036.7 | -12 | WNW | 4 | c | 50 | 85 | 8 | 5 | - | - | 9+ | 9+ | 4000 |
| | Guernsey ... | 1035.9 | -10 | NW | 2 | o | 51 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 |
| 6 | Pembroke ... | 1035.0 | -4 | W | 3 | c | 51 | 95 | 6 | 5 | - | - | 10 | 10 | 4000 |
| 7 | Holyhead ... | 1031.9 | -10 | W | 2 | dd | 50 | 95 | 4 | 6 | - | - | 10 | 10 | 220 |
| | Chester (Sealand) | 1032.2 | -10 | NW'W | 3 | dd | 48 | 95 | 5 | 5 | - | - | 10 | 10 | 800 |
| 8 | L'pool (Bidston) | 1032.0 | 0 | WNW | 4 | c | 47 | 95 | 6 | 5 | - | - | 9 | 9 | 1500 |
| 9 | Harrogate ... | 1030.5 | 0 | WSW | 2 | bc | 46 | 85 | 8 | 3 | - | 9 | 4.6 | 4.6 | 2500 |
| 10 | Spurn Head ... | 1028.8 | -2 | WNW | 4 | c | 48 | 55 | 6 | 4 | 3 | - | 4.6 | 9+ | 1500 |
| | Catterick ... | 1028.6 | -14 | W | 4 | c | 46 | 65 | 8 | 4 | 7 | 9 | Tr | 9+ | 4000 |
| | Tynemouth ... | 1026.4 | -8 | W | 4 | c | 47 | 75 | 7 | 4 | - | - | 7.8 | 7.8 | 4000 |
| 11 | Inchkeith ... | 1034.7 | -6 | WSW | 6 | c | 47 | 75 | 7 | 8 | 8 | - | 4.6 | 7.8 | 2500 |
| | Leuchars ... | 1024.1 | +6 | WSW | 3 | c | 47 | 75 | 8 | 4 | 3 | 0 | 2.3 | 9 | 2500 |
| 12 | Renfrew ... | 1027.2 | -4 | WSW | 4 | c | 48 | 65 | 7 | 8 | - | - | 9 | 9 | 2500 |
| | Eskdalemuir ... | 1028.5 | -4 | WSW | 3 | c | 44 | 65 | 8 | 5 | - | - | 9 | 9 | 2500 |
| 13A | Tiree ... | 1026.8 | 0 | W'N | 6 | pr | 47 | 85 | 7 | 9 | 7 | - | 9 | 9+ | 1500 |
| 13B | Stornoway ... | 1021.4 | +14 | WNW | 4 | c | 46 | 95 | 7 | 8 | 2 | - | 4.6 | 9+ | 2500 |
| 15 | Dalwhinnie ... | 1025.9 | -4 | NW | 5 | c | 42 | 85 | 8 | 4 | 2 | /m | 4.6 | 7.8 | 800 |
| | Aberdeen ... | 1021.7 | +4 | W'S | 2 | c | 48 | 65 | 8 | 8 | - | 8 | 7 | 9+ | 2500 |
| | Wick ... | 1018.0 | +8 | W | 3 | c/pr | 44 | 85 | 8 | 8 | 8 | 8 | 4.6 | 7.8 | 1500 |
| 16 | Lerwick ... | 1010.0 | +20 | W'N | 7 | c/r | 43 | 75 | 7 | 6 | 2 | - | 4.6 | 10 | 1500 |
| 17 | Blacksod Point | 1031.8 | +6 | W | 2 | c | 50 | 95 | 8 | 5 | - | - | 7.8 | 7.8 | 450 |
| 18 | Malin Head ... | 1029.2 | 0 | W | 5 | c | 48 | 85 | 7 | 5 | - | - | 9+ | 9+ | 2500 |
| | Aldergrove ... | 1030.9 | -2 | SW | 3 | c | 46 | 95 | 8 | 5 | - | - | 10 | 10 | 1500 |
| | Donaghadee ... | 1030.0 | -2 | SW | 3 | o | 48 | 85 | 7 | 8 | - | - | 7.8 | 7.8 | 2500 |
| 19 | Birr Castle ... | 1032.4 | -2 | SW | 2 | id₀ | 53 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 |
| 20 | Valentia Obsy. | 1035.1 | -2 | SW'W | 4 | d₀d₀ | 53 | 95 | 6 | 5 | - | - | 10 | 10 | 450 |
| | Roches Point... | 1035.6 | +4 | NW | 3 | c | 53 | 95 | 8 | 3 | - | - | 7.8 | 7.8 | 1500 |

### OBSERVATIONS at 18h. G.M.T. 25th December

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Amount Low 0-10 (26) | Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1032.9 | 0 | SW'W | 1 | o | 51 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Croydon | 1033.0 | 0 | W | 2 | o/d₀ | 51 | 95 | 5 | 5 | - | - | 10 | 10 | 450 | 1 | * |
| S. Farnborough | 1032.6 | -4 | W'S | 2 | c | 51 | 95 | 6 | 5 | - | - | 9+ | 9+ | 800 | 1 | * |
| Winchester | 1033.3 | -2 | WSW | 3 | o | 50 | 95 | 6 | 5 | - | - | 10 | 10 | 450 | 1 | * |
| Boscombe Down | 1033.6 | -2 | W | 3 | c | 50 | 95 | 6 | 5 | 2 | - | 9+ | 10 | 1500 | 1 | * |
| Calshot, S'thmtn | 1033.9 | -2 | SW | 2 | c | 49 | 95 | 6 | 5 | - | - | 10 | 10 | 2500 | 0 | 0 |
| Dungeness | * | * | SWW | 2 | F | * | * | 1 | 5 | - | * | 10 | 10 | 800 | * | 1 |
| Lympne | 1033.3 | -4 | W'S | 2 | F | 47 | 95 | 1 | 5 | - | - | 10 | 10 | <150 | | * |
| Shoeburyness | 1032.5 | 0 | WSW | 2 | dd | 50 | 95 | 3 | 5 | - | - | 10 | 10 | 450 | 1 | * |
| Felixstowe | 1031.9 | 0 | WSW | 2 | c | 49 | 95 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | 2 |
| Gorleston | 1030.2 | +4 | NW | 2 | c | 51 | 95 | 6 | 4 | - | - | 9 | 9 | 2500 | 0 | 2 |
| Cranwell | 1030.7 | +2 | W S | 3 | c | 47 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Birmingham | 1031.3 | 0 | WSW | 1 | c | 51 | 95 | 8 | 5 | - | - | 9 | 9 | 2500 | 1 | * |
| Upper Heyford | 1032.2 | +4 | SW'S | 2 | o | 49 | 95 | 4 | 5 | - | - | 10 | 10 | <150 | 1 | * |
| Leafield | 1032.2 | 0 | WSW | 2 | f | 48 | 95 | 3 | 5 | - | - | 10 | 10 | 220 | 1 | * |
| Ross-on-Wye | 1031.7 | 0 | SW | 2 | c | 52 | 85 | 8 | 4 | - | - | 7.8 | 7.8 | 4000 | 1 | * |
| Portland Bill | 1033.8 | -6 | W | 3 | c | 51 | 95 | 8 | 4 | 7 | - | 4.6 | 7.8 | 2500 | 0 | 3 |
| Plymouth | 1034.8 | -6 | W | 2 | o | 51 | 95 | 6 | 5 | - | - | 10 | 10 | 450 | 0 | 1 |
| Falmouth | [illegible] | -2 | W | [illegible] | c | 48 | 95 | 7 | 5 | 2 | - | 7.8 | 10 | 4000 | 0 | 0 |
| Scilly (St. Mary's) | 1036.0 | +2 | NNW | 2 | c | 49 | 85 | 8 | 5 | - | - | 9 | 9 | 4000 | 0 | 1 |
| Guernsey | 1034.7 | -2 | NNW | 3 | c | 51 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | 2 |
| Pembroke | 1032.3 | -6 | SW | 1 | c | 52 | 95 | 6 | 5 | 6 | - | 7.8 | 9+ | 4000 | 0 | 2 |
| Holyhead | 1031.5 | -2 | WSW | 2 | id₀ | 50 | 95 | 4 | 6 | - | - | 10 | 10 | 800 | 1 | 0 |
| Chester (Sealand) | 1031.8 | 0 | NW | 3 | dd | 47 | 95 | 4 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| L'pool (Bidston) | 1030.9 | 0 | WNW | 4 | o | 46 | 95 | 4 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| Harrogate | 1029.8 | -6 | SW | 2 | c | 45 | 75 | 7 | 5 | - | 8 | 7.8 | 9+ | 4000 | 1 | * |
| Spurn Head | 1029.4 | - | WNW | 3 | bc | 44 | 95 | 6 | 5 | - | 9 | 2.3 | 4.6 | 1500 | 0 | 2 |
| Catterick | 1028.2 | -2 | SSE | 2 | c | 45 | 65 | 8 | 4 | 7 | 9 | Tr | 9 | 4000 | 1 | * |
| Tynemouth | 1026.7 | +6 | W | 3 | bc | 45 | 75 | 7 | 2 | - | - | 4.6 | 4.6 | 2500 | 0 | *2 |
| Inchkeith | 1025.7 | +6 | W | 6 | c | 45 | 85 | 7 | 5 | 5 | - | 4.6 | 7.8 | 2500 | 0 | 3 |
| Leuchars | 1024.3 | +2 | SW | 4 | be | 43 | 75 | 8 | 4 | 4 | 2 | 1 | 4.6 | 4000 | 1 | * |
| Renfrew | 1027.2 | +2 | W | 3 | bc/pr₀ | 45 | 85 | 7 | 8 | - | - | 4-6 | 4-6 | 2500 | 1 | * |
| Eskdalemuir | 1028.6 | +2 | W S | 4 | c | 43 | 75 | 8 | 5 | - | - | 9 | 9 | 2500 | 1 | * |
| Tiree | 1026.5 | +2 | W'S | 5 | id₀ | 48 | 75 | 7 | 5 | 7 | - | 9 | 9+ | 2500 | 1 | 4 |
| Stornoway | 1021.8 | +6 | W | 4 | c | 46 | 95 | 7 | 8 | 7 | - | 4.6 | 7.8 | 2500 | 1 | 2 |
| Dalwhinnie | 1024.4 | +10 | NW | 3 | c | 41 | 85 | 7 | 4 | 4 | - | 4.6 | 9 | 800 | 1 | 1 |
| Aberdeen | 1022.9 | +6 | SW | 2 | ir₀ | 45 | 75 | 7 | 6 | 1 | - | 4.6 | 7.8 | 1500 | 1 | 1 |
| Wick | 1019.6 | +10 | W | 3 | c | 43 | 85 | 8 | 8 | 1 | 8 | 4.6 | 7.8 | 1500 | 1 | 2 |
| Lerwick | 1012.1 | +14 | WNW | 6 | bc/pr | 42 | 65 | 7 | 8 | - | - | 4.6 | 4.6 | 1500 | 1 | * |
| Blacksod Point | 1030.0 | -8 | W | 2 | dd | 52 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | 3 |
| Malin Head | 1028.8 | -2 | W | 4 | c/d | 48 | 95 | 6 | 5 | 1 | - | 7.8 | 9+ | 1500 | 0 | 4 |
| Aldergrove | 1030.5 | -2 | SSW | 1 | c | 45 | 95 | 8 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| Donaghadee | 1029.9 | 0 | WSW | 2 | c | 46 | 85 | 7 | 5 | 2 | - | 4-6 | 7-8 | 2500 | 0 | 1 |
| Birr Castle | 1031.9 | 0 | SW | 1 | dd | 52 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Valentia Obsy. | 1034.2 | 0 | SW'W | 3 | bc | 51 | 95 | 8 | 5 | 3 | - | 2.3 | 4.6 | 800 | 1 | 3 |
| Roches Point | 1033.7 | -2 | NW | 2 | c | 52 | 85 | 8 | 3 | - | - | 7.8 | 7.8 | 2500 | 1 | 3 |

### PAST 24 HOURS. WEATHER.

| Stations | 7h.—13h. 25th (37) | 13h.—18h. 25th (38) | 18h. 25th to 1h. 26th (39) | 1h.—7h. 26th (40) |
|---|---|---|---|---|
| London (Kew) | od₀om₀ | om₀ | bcmwcmw | cm₀w |
| Croydon | omd₀ | omd₀ | | cd₀m₀ |
| S. Farnborough | oid₀ | oid₀ | cm₀bc | bcwc |
| Winchester | cid₀m₀ | oid₀m₀ | ocm₀ | cm₀d₀o |
| Boscombe Down | offd₀ | od₀m₀ | cm₀ | cm, off |
| Calshot, S'thmtn | com₀c | cm₀ | | c |
| Dungeness | o | f | * | bc |
| Lympne | od₀ofe | ofe | | ofo |
| Shoeburyness | od₀d₀mcm | omoffdd | offdd | od, od₀m |
| Felixstowe | cd₀m₀ | cd₀m₀ | cpd₀f₀m | cm₀ |
| Gorleston | cm₀ | cm₀pr₀ | c | cbc |
| Cranwell | cbcm₀ | cmbc | | w, cm₀ |
| Birmingham | c | c | cpr₀ | c |
| Upper Heyford | c ocm₀ | com₀m | omfcm | cbcm, w |
| Leafield | m₀c | off | ffcc | cc |
| Ross-on-Wye | bcbbc | cbcc | bccid, bc | c |
| Portland Bill | c | c | c | c |
| Plymouth | d₀om₀ | om₀ | om₀ | om₀d₀ |
| Falmouth | cod₀m₀ | od₀m₀c | cm₀ | cm₀d₀ |
| Scilly (St. Mary's) | c | c | comd | omido |
| Guernsey | od₀co | od₀om | oid₀c | com |
| Pembroke | cm | cm₀ | cm₀pr | pr, bc |
| Holyhead | did₀m | dmc | dcm, f, d | dcm₀ |
| Chester (Sealand) | r₀dm₀ | d₀mdd | oid₀m | od, m₀ |
| L'pool (Bidston) | iOfd₀omc | id₀om | cbcc | cid, d |
| Harrogate | bc | bcc | c | od₀ |
| Spurn Head | bc | cbc | bc | bccw |
| Catterick | c | c | cbcw | bcc |
| Tynemouth | bc-cq | cbcq | bc | bcc |
| Inchkeith | bcc | c | cbc | [illegible] |
| Leuchars | bquc | cqbcw | bccw | cw |
| Renfrew | bcqc | cpr₀bc | cpr₀c | cm₀ |
| Eskdalemuir | c | cp₀c | cbcc | cd, d₀ |
| Tiree | c | c | cid | idr |
| Stornoway | cprq | cpr | cbcpr | cpr |
| Dalwhinnie | ir | c | | c |
| Aberdeen | bcc | ccir₀ | ir₀bc | bxcc |
| Wick | pr₀c | | cir₀⊕ | c |
| Lerwick | oirq | cbcprq | cprc | bccpr |
| Blacksod Point | prc | cu | dd | id |
| Malin Head | c | c | comcdm | cid, m, m |
| Aldergrove | c | cpr | cdr₀ | cr₀c |
| Donaghadee | c | c | c | cir₀c |
| Birr Castle | oid₀ | oid₀ | oid₀ | oid₀ |
| Valentia Obsy. | r₀r₀d₀d₀ | od₀d₀r₀bc | bccoid | id |
| Roches Point | oir₀c | bc | c | cofoc |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220-1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

b(r), "hail" or "rain and hail."

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus. R, heavy rain. r₀, slight rain. rr, continuous rain.

<, less than (for cloud height).

⊕, Solar halo. ⏀, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.

"tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky.

"9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

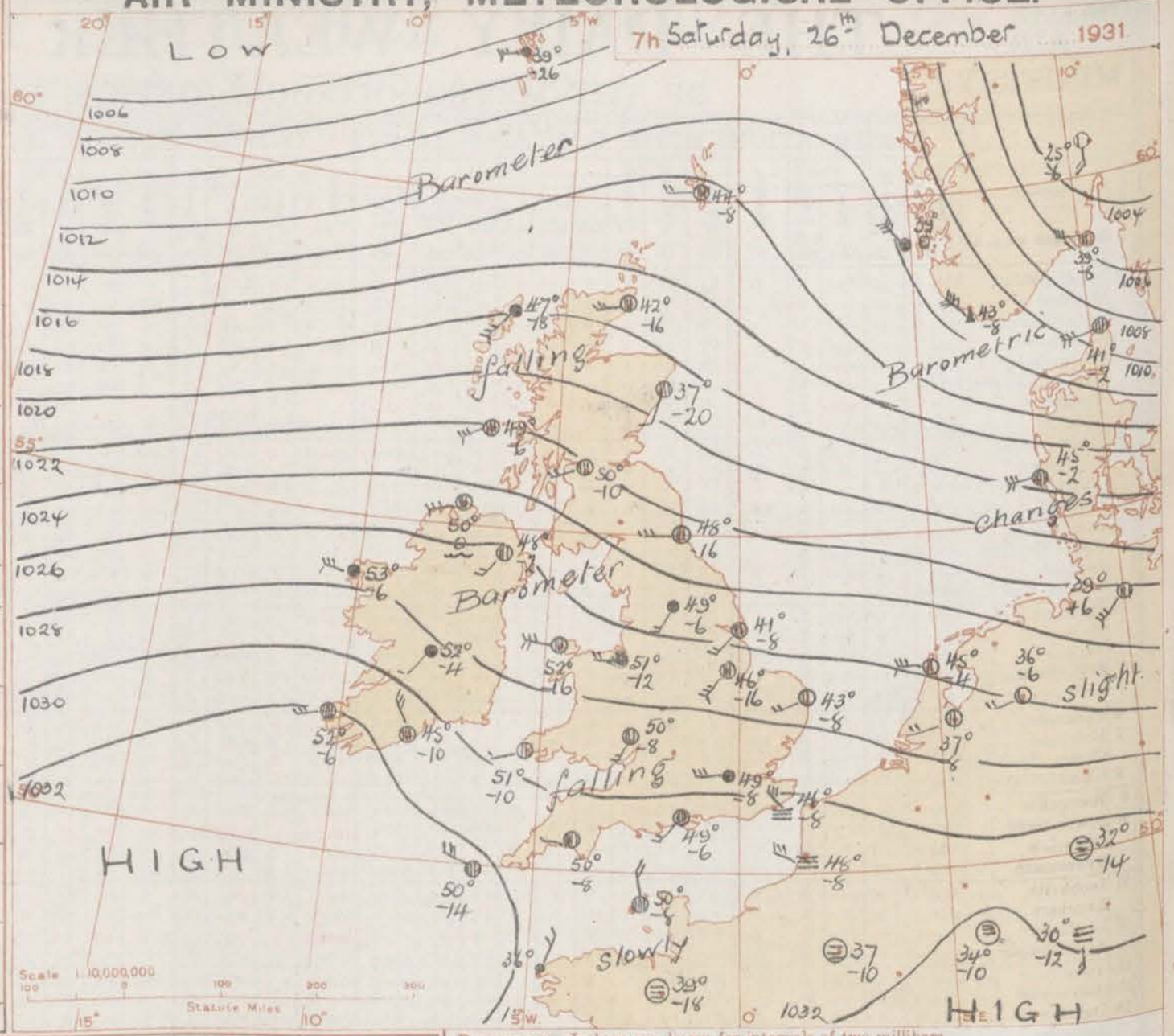
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for 25th December 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 24th to 9h. 25th | Temperature. Max. 9h.—17h. 25th | Rainfall. Night. 17h. 24th to 9h. 25th | Rainfall. Day. 9h.—17h. 25th | Sunshine. Sunrise to Sunset. |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | o | o | 44 | 50 | – | – | 0.0 |
| | Bournemouth | o | om | 43 | 53 | – | – | 0.0 |
| | Ventnor ... | o | om | 45 | 50 | Trace | – | 0.0 |
| | Southsea ... | om | om | 45 | 51 | – | – | 0.0 |
| | Bognor Regis | co | o | 45 | 50 | – | – | 0.0 |
| | Littlehampton | o | o | 44 | 50 | Trace | – | 0.0 |
| | Worthing ... | co | o | 45 | 50 | Trace | – | 0.0 |
| | Brighton ... | oc | co | 44 | 48 | – | – | 0.0 |
| | Eastbourne† | oem | ofe | 45 | 49 | – | – | 0.0 |
| | Hastings† ... | ofm | omff | 43 | 49 | 0.2 | 0.1 | 0.0 |
| | Folkestone ... | oef | oef | 43 | 49 | Trace | Trace | 0.0 |
| | Dover... ... | ofe | ofd | 44 | 48 | Trace | Trace | 0.0 |
| | Deal ... ... | for | mo | 44 | 50 | 0.8 | – | 0.0 |
| | Ramsgate ... | of | om | 43 | 49 | Trace | Trace | 0.0 |
| | Margate ... | cf | cm | 44 | 51 | – | – | 0.0 |
| 2 | Southend ... | d | d | 44 | 49 | Trace | Trace | 0.0 |
| | Maldon ... | oc | co | 46 | 52 | – | – | 0.0 |
| | Clacton-on-Sea | cogmc | cbc | 43 | 50 | – | – | 0.0 |
| | Dovercourt ... | moc | ocbcc | 44 | 53 | – | – | 0.3 |
| | Lowestoft ... | coid | coid | 43 | 50 | 0.1 | Trace | 0.0 |
| | Skegness ... | ocbc | bcc | 44 | 53 | – | – | 2.7 |
| | Mablethorpe | c | cm | 47 | 52 | – | – | 2.7 |
| | Cleethorpes ... | c | bvc | 42 | 50 | – | – | 2.2 |
| 3 | Leamington S. | o | o | 44 | 55 | – | – | 0.0 |
| 4 | Cheltenham† | omc | bccom | 46 | 52 | Trace | – | 0.9 |
| 5 | Bath ... ... | cdm | cdm | 46 | (54) | Trace | Trace | 0.0 |
| | Weymouth ... | c | c | 42 | 52 | – | – | 0.0 |
| | Jersey ... | c | cdm | 46 | 51 | – | Trace | 0.0 |
| | Torquay ... | bcj | wbcc | 41 | 58 | – | – | 3.5 |
| | Penzance ... | o | o | 48 | 51 | 0.5 | – | 0.0 |
| | St. Ives ... | d | o | 41 | 51 | 0.3 | – | 0.0 |
| | Bude ... ... | oed | oed | 49 | 51 | 0.3 | 2 | 0.0 |
| | Ilfracombe ... | od | odm | 49 | 52 | 0.6 | 0.5 | 0.0 |
| 6 | Aberystwyth | oefe | ofefe | 47 | 49 | 0.3 | 0.3 | 0.0 |
| 7 | Llandudno. ... | oid | do | 48 | 50 | 2 | 1 | 0.0 |
| | Colwyn Bay... | dmodd | oddo | 48 | 50 | 4 | 2 | 0.0 |
| | Rhyl ... ... | od | do | 48 | 50 | 2 | 2 | 0.0 |
| 8 | Wallasey ... | cid | cid | 47 | 48 | – | 0.3 | 0.0 |
| | Southport‖ ... | oco | ococ | 47 | 48 | 3 | – | 0.0 |
| | Blackpool ... | orc | c | 46 | 48 | 2 | – | 0.0 |
| | Morecambe ... | c | c | 45 | 48 | 4 | – | 0.0 |
| 9 | Ilkley ... ... | bc | bc | 44 | 48 | – | – | 3.2 |
| 10 | Berwick-on-T. | bc | bc | 44 | 48 | Trace | – | 0.1 |
| 11 | Dunbar ... | cbc | bc | 43 | 47 | – | – | 0.0 |
| 12 | Douglas ... | cb | cdcb | 44 | 49 | 0.5 | – | 0.4 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

# AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS:—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ⁼ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 26th Dece. 1931. |
|---|---|
| 1. S.E. England<br>2. E. England<br>3. E. Midlands<br>4. W. Midlands | Wind westerly, moderate; cloudy, local drizzle; mild. |
| 5. S.W. England<br>6. South Wales | Light or moderate westerly wind; cloudy, local drizzle and mist; mild. |
| 7. North Wales<br>8. N.W. England<br>9. N. Midlands<br>10. N.E. England<br>11. S.E. Scotland<br>12. S.W. Scotland & Isle of Man<br>13. A. W. Scotld. B. N.W. Scotland<br>14. Mid-Scotland<br>15. N.E. Scotland<br>16. Orknays and Shetlands.<br>17. N.W. Ireland<br>18. N.E. Ireland | Wind west to southwest, moderate or fresh, strong at times locally; cloudy occasional rain or drizzle; mild. |
| 19. S.E. Ireland<br>20. S.W. Ireland | Wind W. to S.W., moderate; cloudy, occasional drizzle and mist; mild. |

### GENERAL INFERENCE.

An anticyclone is situated off our southwest coasts. A depression near Iceland is moving east or northeast and secondary depressions are crossing the British Isles. Winds will be from between west and southwest, fresh or strong on the north and northwest coasts and weather rather unsettled.

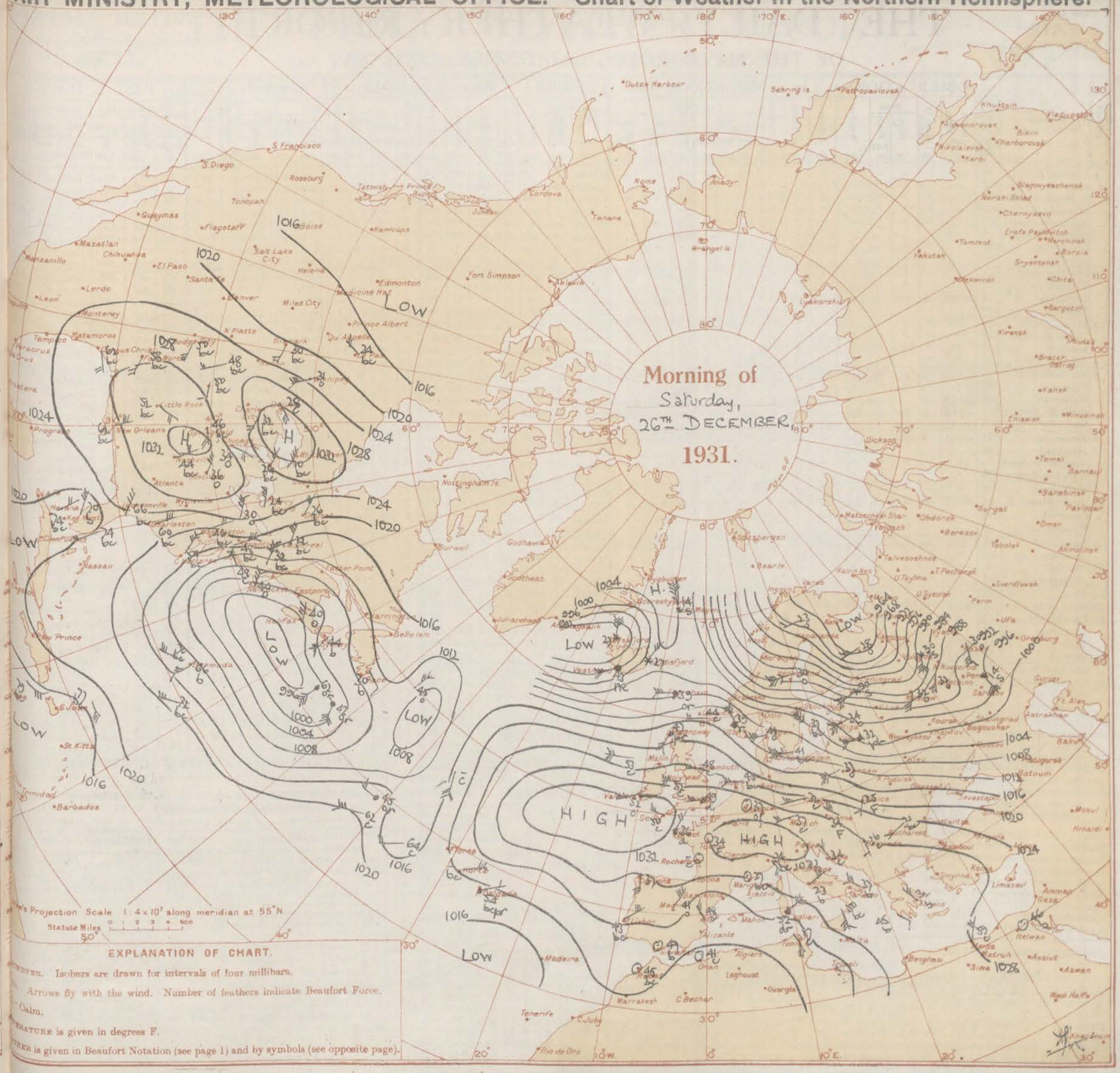
### FURTHER OUTLOOK.

Possibly becoming cooler in Scotland.

Forecasts issued at 1200 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.




## EXPLANATION OF CHART.

PRESSURE. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 26th December 1931.

No. 25601

### OBSERVATIONS at 1 hr. G.M.T. 26th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | | | | | | | | | | | | | | |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot (S'thmtn) | 8 | | | | | | | | | | | | | | |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | | | | | | | | | | | | | | |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1029.6 | -6 | WN | 1 | c | 46 | 95 | 6 | - | 3 | - | 0 | 7.8 | - |
| | Cranwell | 240 | | | | | | | | | | | | | | |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1032.5 | -6 | W | 2 | c | 51 | 95 | 8 | 4 | 6 | - | 4.6 | 10 | 2500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1034.3 | -2 | - | 0 | c | 50 | 95 | 6 | 5 | 2 | - | 7.8 | 10 | 4000 |
| | Scilly (St. Mary's) | 163 | 1034.8 | -6 | NW | 2 | id. | 50 | 95 | 5 | 5 | - | - | 10 | 10 | 4000 |
| | Guernsey | 175 | 1033.3 | -10 | NW | 1 | c | 51 | 95 | 7 | 8 | 1 | - | 7.8 | 9 | 2500 |
| 6 | Pembroke | 142 | 1032.2 | -8 | WSW | 1 | pr | 51 | 95 | 6 | 3 | 6 | - | 7.8 | 9+ | 1500 |
| 7 | Holyhead | 26 | | | | | | | | | | | | | | |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1027.7 | -2 | WN | 3 | bc | 42 | 95 | 7 | - | 7 | 9 | 0 | 4.6 | - |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | | | | | | | | | | | | | | |
| 11 | Inchkeith | 190 | 1024.4 | -16 | WSW | 4 | bc | 45 | 85 | 8 | 5 | 3 | - | 2.3 | 4.6 | 4000 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1020.2 | -6 | WSW | 3 | bc/pr | 43 | 96 | 8 | 9 | 9 | - | 4.6 | 4.6 | 2500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1019.3 | -14 | W | 3 | c | 42 | 95 | 8 | 8 | 1 | - | 4.6 | 7.8 | 1500 |
| 16 | Lerwick | 54 | 1013.1 | -2 | WN | 4 | pr | 41 | 85 | 7 | 9 | - | - | 7.8 | 7.8 | 1500 |
| 17 | Blacksod Point | 18 | 1028.7 | -4 | W | 2 | dd | 53 | 95 | 7 | 6 | - | - | 10 | 10 | 4150 |
| 18 | Malin Head | 52 | 1025.3 | -16 | WSW | 3 | id. | 51 | 95 | 5 | 5 | 1 | - | 9+ | 10 | 4500 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | | | | | | | | | | | | | | |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 26th December

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1029.6 | -6 | SW | 2 | c | 48 | 95 | 6 | 5 | 1 | - | 9 | 10 | 2500 | 1 | * |
| | Croydon | 1029.9 | -8 | W | 3 | id. | 49 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | S. Farnborough | 1029.9 | -8 | W | 1 | c | 49 | 95 | 7 | 5 | - | - | 9+ | 9+ | 4000 | 1 | * |
| | Winchester | 1030.2 | -8 | W | 2 | o | 50 | 96 | 7 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| | Boscombe Down | 1030.5 | -4 | - | 0 | rs | 49 | 96 | 2 | 5 | - | - | 10 | 10 | 4150 | 1 | * |
| | Calshot (S'thmtn) | 1031.3 | -6 | SWW | 2 | c | 49 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | 1 |
| | Dungeness | * | * | WSW | 1 | c | * | * | 6 | 5 | 6 | * | 4.6 | 7.8 | 2500 | * | 1 |
| | Lympne | 1030.1 | -8 | NW | 3 | o5 | 46 | 95 | 2 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| 2 | Shoeburyness | 1029.4 | -10 | SWW | 2 | dd | 49 | 95 | 4 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| | Felixstowe | 1029.1 | -8 | SW | 2 | c | 45 | 95 | 5 | 5 | - | - | 9 | 9 | 2500 | 1 | 2 |
| | Gorleston | 1027.7 | -8 | W | 2 | bc | 43 | 95 | 6 | - | 7 | - | 0 | 4.6 | - | 0 | 2 |
| | Cranwell | 1027.1 | -16 | SWW | 4 | c | 46 | 95 | 6 | 5 | - | - | 10 | 10 | 800 | 1 | * |
| 3 | Birmingham | 1028.8 | -16 | WSW | 2 | c | 49 | 95 | 8 | 5 | - | - | 9 | 9 | 1500 | 1 | * |
| | Upper Heyford | 1029.1 | -10 | SW | 2 | c | 48 | 95 | 6 | 5 | 3 | - | 4.6 | 7.8 | 450 | 1 | * |
| | Leafield | 1029.2 | -10 | SWW | 2 | o | 48 | 95 | 7 | 5 | - | - | 10 | 10 | 220 | 1 | * |
| 4 | Ross-on-Wye | 1029.3 | -8 | SW | 2 | c | 50 | 95 | 8 | 5 | - | - | 9+ | 9+ | 4000 | 1 | * |
| 5 | Portland Bill | 1031.1 | -14 | W | 3 | c | 51 | 95 | 8 | 4 | 2 | - | 4.6 | 10 | 2500 | 0 | 2 |
| | Plymouth | 1031.6 | -8 | W | 1 | o | 50 | 95 | 6 | 5 | - | - | 10 | 10 | 450 | 0 | 1 |
| | Falmouth | 1031.9 | -6 | - | 0 | id. | 50 | 95 | 6 | 5 | 2 | - | 4.6 | 10 | 4000 | 1 | 0 |
| | Scilly (St. Mary's) | 1032.6 | -14 | NWW | 3 | c | 50 | 95 | 7 | 5 | - | - | 9+ | 9+ | 4000 | 1 | 2 |
| | Guernsey | 1031.3 | -8 | N | 2 | o | 50 | 95 | 5 | 5 | - | - | 10 | 10 | 800 | 1 | 1 |
| 6 | Pembroke | 1029.7 | -10 | WSW | 1 | bc | 51 | 95 | 7 | 3 | 6 | - | 2.3 | 4.6 | 1500 | 1 | 1 |
| 7 | Holyhead | 1027.4 | -16 | WN | 5 | c/d | 52 | 95 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | 3 |
| | Chester (Sealand) | 1027.7 | -12 | W | 2 | id. | 51 | 95 | 6 | 5 | 2 | - | 7.8 | 9+ | 1500 | 1 | * |
| 8 | L'pool (Bidston) | 1026.9 | -14 | WNW | 5 | d.d. | 50 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 9 | Harrogate | 1025.1 | -6 | SW | 2 | d.d. | 49 | 95 | 7 | 6 | - | - | 9+ | 9+ | 2500 | 1 | * |
| 10 | Spurn Head | 1025.1 | -8 | SWS | 2 | c | 41 | 95 | 7 | 4 | 7 | 9 | 4.6 | 7.8 | 2500 | 1 | 2 |
| | Catterick | 1024.5 | -14 | SW | 2 | c | 47 | 95 | 8 | 5 | 1 | - | 7.8 | 9+ | 2500 | 1 | * |
| | Tynemouth | 1022.5 | -16 | W | 3 | c | 48 | 95 | 6 | 6 | - | - | 7.8 | 7.8 | 1500 | 0 | 2 |
| 11 | Inchkeith | 1020.7 | -18 | W | 5 | c | 47 | 95 | 7 | 5 | 2 | - | 4.6 | 9+ | 1500 | 0 | 3 |
| | Leuchars | 1019.6 | -20 | SW | 1 | c | 42 | 95 | 8 | - | 7 | 2 | 0 | 9 | - | 1 | * |
| 12 | Renfrew | 1022.3 | -10 | WSW | 2 | c | 50 | 95 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| | Eskdalemuir | 1022.9 | -12 | WSW | 4 | d.d. | 47 | 95 | 6 | 5 | 2 | - | 9 | 10 | 800 | 1 | * |
| 13A | Tiree | 1022.3 | -6 | WSW | 4 | c | 49 | 95 | 7 | 5 | 7 | - | 4.6 | 10 | 1500 | 1 | 3 |
| 13B | Stornoway | 1017.0 | -18 | SW | 4 | pr | 47 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | 2 |
| 15 | Dalwhinnie | 1021.2 | -20 | WNW | 4 | c | 45 | 85 | 8 | 4 | 8 | - | 4.6 | 7.8 | 800 | 0 | * |
| | Aberdeen | 1020 | -20 | SSW | 1 | c | 37 | 95 | 7 | 5 | - | - | 9 | 9 | 4000 | 1 | 0 |
| | Wick | 1016.7 | -16 | W | 3 | c | 42 | 95 | 8 | 8 | 2 | - | 4.6 | 7.8 | 1500 | 1 | 2 |
| 16 | Lerwick | 1014.1 | -8 | W | 2 | c | 44 | 85 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| 17 | Blacksod Point | 1027.8 | -6 | W | 4 | id | 53 | 95 | 7 | 5 | - | - | 10 | 10 | 4150 | 1 | 3 |
| 18 | Malin Head | 1024.4 | 0 | WSW | 4 | c/d | 50 | 95 | 5 | 5 | 1 | - | 9 | 10 | 800 | 1 | 4 |
| | Aldergrove | 1026.3 | -2 | SWS | 2 | c | 48 | 96 | 8 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| | Donaghadee | 1025.3 | -6 | W | 3 | c | 51 | 85 | 7 | 8 | - | - | 7.8 | 7.8 | 1500 | 1 | 1 |
| 19 | Birr Castle | 1028.9 | -4 | SW | 1 | id. | 52 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 20 | Valentia Obsy.† | 1032.0 | -6 | WSW | 3 | o | 52 | 95 | 6 | 5 | - | - | 10 | 10 | 450 | 1 | - |
| | Roches Point | 1031.7 | -10 | N | 3 | c | 45 | 95 | 8 | 5 | - | - | 7.8 | 7.8 | 2500 | 1 | 2 |

### PAST 24 HOURS.

| District | Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F. (32) | Temperature Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 25th Brs. (36) |
|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 51 | 47 | 41 | Tr | 0.1 | 0.0 |
| | Croydon | 51 | 48 | 45 | 0.1 | Tr. | 0.0 |
| | S. Farnborough | 51 | 44 | 31 | Tr | Tr. | 0.0 |
| | Winchester | 51 | 48 | 46 | Tr | Tr. | 0.0 |
| | Boscombe Down | 50 | 48 | 47 | Tr | 0.4 | * |
| | Calshot (S'thmtn) | 52 | 47 | 43 | - | Tr. | 0.0 |
| | Dungeness | 49 | 42 | * | Tr | Tr. | * |
| | Lympne | 47 | 46 | 44 | 0.1 | 0.1 | 0.0 |
| 2 | Shoeburyness | 50 | 47 | 45 | Tr | 0.1 | 0.0 |
| | Felixstowe | 52 | 45 | 39 | Tr | 0.1 | 0.0 |
| | Gorleston | 52 | 41 | 38 | 0.1 | - | 0.0 |
| | Cranwell | 50 | 42 | 38 | - | - | 0.4 |
| 3 | Birmingham | 52 | 47 | 43 | - | Tr. | 0.1 |
| | Upper Heyford | 50 | 47 | 45 | - | - | * |
| | Leafield | 49 | 46 | 44 | - | 0.1 | 0.0 |
| 4 | Ross-on-Wye | 58 | 49 | 42 | - | Tr. | 3.7 |
| 5 | Portland Bill | 52 | 50 | * | - | - | * |
| | Plymouth | 52 | 49 | 46 | Tr | Tr. | 0.0 |
| | Falmouth | 50 | 49 | * | Tr | 0.1 | 0.0 |
| | Scilly (St. Mary's) | 50 | 48 | * | - | 0.5 | 0.0 |
| | Guernsey | 51 | 50 | 48 | Tr | Tr. | 0.0 |
| 6 | Pembroke | 52 | 50 | * | - | 0.5 | 0.0 |
| 7 | Holyhead | 50 | 49 | 48 | 1 | 0.3 | 0.0 |
| | Chester (Sealand) | 50 | 47 | 45 | 1 | Tr. | 0.0 |
| 8 | L'pool (Bidston) | 47 | 45 | 45 | 0.3 | Tr. | 0.0 |
| 9 | Harrogate | 47 | 40 | 34 | - | Tr. | 1.9 |
| 10 | Spurn Head | 49 | 41 | * | - | Tr. | 3.2 |
| | Catterick | 47 | 40 | 31 | - | - | * |
| | Tynemouth | 48 | 42 | 34 | - | - | * |
| 11 | Inchkeith | 48 | 44 | 42 | - | Tr. | 0.1 |
| | Leuchars | 47 | 39 | 32 | - | - | 0.3 |
| 12 | Renfrew | 48 | 44 | 40 | 0.1 | Tr. | 0.1 |
| | Eskdalemuir | 48 | 40 | 37 | Tr | 1 | 0.0 |
| 13A | Tiree | 48 | 46 | 43 | Tr | 1 | 0.0 |
| 13B | Stornoway | 47 | 43 | * | 1 | 0.4 | 0.0 |
| 15 | Dalwhinnie | 43 | 39 | 36 | 1 | - | 0.0 |
| | Aberdeen | 48 | 37 | 29 | 0.1 | Tr. | 0.0 |
| | Wick | 45 | 41 | * | 2 | 0.2 | * |
| 16 | Lerwick | 44 | 41 | * | 2 | 1 | 0.0 |
| 17 | Blacksod Point | 53 | 51 | * | Tr | 2 | * |
| 18 | Malin Head | 48 | 46 | * | Tr | 2 | 0.0 |
| | Aldergrove | 46 | 45 | 42 | 0.2 | 0.5 | 0.3 |
| | Donaghadee | 48 | 45 | * | - | 1 | * |
| 19 | Birr Castle | 53 | 51 | 50 | 0.4 | 1 | 0.0 |
| 20 | Valentia Obsy.† | 53 | 49 | 43 | 2 | 0.4 | 0.0 |
| | Roches Point | 54 | 43 | * | 2 | Tr. | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon (24 hrs. ended 9h.) | Weather Night (24 hrs. ended 9h.) | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. (To-day) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew | 18 | od.om. | om. | bcm W. | 51 | 47 | 41 | Tr. | 0.1 | 0.0 | * | * | 5 |
| Croydon | 217 | omd. | omd. | cdm. | 51 | 48 | 45 | 0.1 | Tr. | 0.0 | * | * | |
| Greenwich (Royal Observatory) | 149 | ocd. f | ocd. f | oid. f cid. | 51 | 48 | 39 | Tr. | Tr. | 0.0 | 95 | 96 | 4 |
| City (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0.0 | * | * | * |
| Westminster (St. James' Park) | 27 | * | * | * | 49 | 46 | 43 | — | | 0.0 | 65 | 92 | * |
| Regents Pk. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | | * | * | * |
| Camden Square | 110 | o | o | * | 51 | 48 | 44 | Tr. | Tr. | * | * | 96 | * |
| Kensington | 80 | om | om | * | 52 | 48 | 42 | - | 0.1 | 0.0 | At 18h. 94 | 95 | * |
| Hampstead Observatory | 450 | of b | of | of | 50 | 44 | 42 | 0.3 | 0.3 | 0.0 | * | 97 | * |

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 26th

| South Kensington Max. | Time. | Min. | Time. |
|---|---|---|---|
| 0.8 | 10-11h 25th | Nil | 4-6h 27th |

| Kew Observatory Max. | Time. | Min. | Time. |
|---|---|---|---|
| Defective record. | | | |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 25th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 26th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris | 1035.9 | - | 0 | df | 37 | 1031.5 | - | 0 | 5 | 37 | 37 | 36 | Tr. | 1 |
| Brussels | | | | | | | | | | | | | | |
| Berlin | 1024.3 | WSW | 5 | o | 41 | 1021.9 | WSW | 6 | c | 41 | 41 | 41 | 1 | 0.2 |
| Zurich | | | | | | 1032.6 | WSW | 1 | 5 | 28 | | 25 | | - |
| Rome | | | | | | 1030.5 | ENE | 3 | b | 28 | | 19 | | - |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13–18 | 9 | 47–54 |
| 1 | 1–3 | 5 | 19–24 | 10 | 55–63 |
| 2 | 4–7 | 6 | 25–31 | 11 | 64–75 |
| 3 | 8–12 | 7 | 32–38 | 12 | 75 |
| | | 8 | 39–46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | | Objects not visible at |
|---|---|---|
| 0 | Dense fog | 55 yards. |
| 1 | Thick fog | 220 " |
| 2 | Fog | 550 " |
| 3 | Moderate fog | 1,100 " |
| 4 | Mist or haze | 1¼ miles. |
| 5 | Poor visibility | 2½ " |
| 6 | Moderate " | 6½ " |
| 7 | Good " | 12½ " |
| 8 | Very good " | 31 " |
| 9 | Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | | | |
|---|---|---|---|
| 0 | Calm. | 5 | Very rough. |
| 1 | Smooth. | 6 | High. |
| 2 | Slight. | 7 | Very high. |
| 3 | Moderate. | 8 | Precipitous. |
| 4 | Rough. | 9 | Confused. |

TERMS OF SUBSCRIPTION. { Single Copies, 1d. each; by post 1½d. { 2/6 per month; 6/6 per quarter; 25/- per year.

METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

Page 1.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 27th December 1931.

No. 25602

### OBSERVATIONS at 13h. G.M.T. 26th December

| District | Stations (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1027.0 | -24 | W | 3 | c | 53 | 85 | 5 | 5 | 7 | - | 7-8 | 9 | 2500 |
| | Croydon | 1027.2 | -26 | W | 3 | c | 52 | 85 | 5 | 5 | 3 | - | 9+ | 9+ | 1500 |
| | S. Farnborough | 1027.6 | -18 | W'S | 2 | bc | 55 | 85 | 7 | 8 | 4 | - | 2-3 | 4-6 | 2500 |
| | Winchester | 1027.9 | -22 | W | 3 | bc | 55 | 85 | 7 | 7 | - | - | 4-6 | 4-6 | 2500 |
| | Boscombe Down | 1028.8 | -16 | WNW | 3 | b | 53 | 75 | 8 | [illegible] | 7 | - | 1 | 1 | 1500 |
| | Calshot, S'thmtn | 1029.0 | -22 | W'S | 3 | bc | 54 | 85 | 7 | 5 | 4 | - | 4-6 | 4-6 | 1500 |
| | Dungeness | * | * | SW | 2 | o/f | * | * | 4 | 5 | - | - | 10 | 10 | 1500 |
| | Lympne | 1027.9 | -20 | WSW | 2 | o | 49 | 95 | 5 | 5 | - | - | 10 | 10 | 800 |
| 2 | Shoeburyness | 1026.6 | -24 | SW | 2 | c | 54 | 95 | 4 | 5 | - | - | 9+ | 9+ | 1500 |
| | Felixstowe | 1026.3 | -22 | W | 2 | c | 51 | 85 | 6 | 5 | - | 1 | 4-6 | 7-8 | 5700 |
| | Gorleston | 1024.9 | -20 | WNW | 2 | c | 51 | 95 | 6 | 8 | 7 | - | 7-8 | 7-8 | 2500 |
| | Cranwell | 1024.7 | -22 | W'S | 4 | c | 50 | 85 | 6 | 5 | - | 2 | 1 | 7-8 | 2500 |
| 3 | Birmingham | 1026.4 | -14 | WNW | 4 | c | 52 | 85 | 8 | 6 | - | 1 | 4-6 | 7-8 | 1500 |
| | Upper Heyford | 1027.0 | -20 | W'N | 4 | c | 55 | 85 | 8 | 5 | - | 1 | 4-6 | 7-8 | 1500 |
| | Leafield | 1027.2 | -12 | NW'W | 4 | c | 52 | 85 | 8 | 5 | - | 4 | 4-6 | 7-8 | 2500 |
| 4 | Ross-on-Wye | 1026.9 | -12 | WNW | 3 | c | 53 | 75 | 9 | 8 | - | - | 9 | 9 | 4000 |
| 5 | Portland Bill | 1029.2 | -12 | W | 3 | c | 52 | 95 | 8 | 4 | 6 | - | 7-8 | 9 | 2500 |
| | Plymouth | 1030.5 | -14 | W | 2 | bc | 54 | 85 | 7 | 8 | - | - | 4-6 | 4-6 | 1500 |
| | Falmouth | 1030.9 | -16 | NW'W | 2 | bc | 53 | 85 | 8 | 8 | - | - | 4-6 | 4-6 | 4000 |
| | Scilly (St. Mary's) | 1031.7 | -10 | NNW | 3 | c | 52 | 95 | 7 | 5 | - | - | 9 | 9 | 4000 |
| | Guernsey | 1029.8 | -18 | WNW | 2 | o | 52 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 |
| 6 | Pembroke | 1029.3 | -2 | W | 2 | df | 51 | 95 | 3 | 3 | 6 | - | 7-8 | 10 | 2500 |
| 7 | Holyhead | 1026.7 | -10 | W'N | 4 | $d_o d_o$ | 52 | 95 | 8 | 6 | - | - | 10 | 10 | 220 |
| | Chester (Sealand) | 1026.7 | -10 | WNW | 3 | c | 53 | 75 | 8 | 8 | - | 8 | 4-6 | 7-8 | 2500 |
| 8 | L'pool (Bidston) | 1025.9 | -6 | W'N | 5 | cjp | 50 | 85 | 7 | 5 | 1 | - | 7-8 | 10 | 1500 |
| 9 | Harrogate | 1023.5 | -26 | WSW | 4 | c | 50 | 85 | 9 | 6 | 4 | 1 | 7-8 | 7-8 | 2500 |
| 10 | Spurn Head | 1022.4 | -6 | W'N | 4 | c | 48 | 95 | 6 | 4 | 4 | 9 | 4-6 | 7-8 | 1500 |
| | Catterick | 1022.4 | -10 | W | 4 | c | 52 | 75 | 8 | 4 | 4 | 2 | 2-3 | 9 | 1500 |
| | Tynemouth | 1020.4 | -16 | W | 4 | bc | 52 | 85 | 6 | 2 | - | - | 4-6 | 4-6 | 2500 |
| 11 | Inchkeith | 1019.1 | -14 | W | 4 | c | 50 | 95 | 7 | 5 | 7 | - | 2-3 | 7-8 | 1500 |
| | Leuchars | 1016.9 | -26 | W | 4 | c | 51 | 85 | 8 | 4 | 9 | 9 | Tr | 7-8 | 1500 |
| 12 | Renfrew | 1020.9 | -12 | WSW | 4 | $ir_o$ | 52 | 85 | 7 | 6 | 2 | - | 9 | 10 | 1500 |
| | Eskdalemuir | 1022.1 | -10 | S | 3 | $id_o$ | 48 | 95 | 7 | 5 | - | - | 10 | 10 | 1500 |
| 13A | Tiree | 1020.7 | -8 | W'S | 5 | c | 52 | 95 | 6 | 5 | 7 | - | Tr | 10 | 2500 |
| 13B | Stornoway | 1013.1 | -18 | SW | 6 | id | 51 | 95 | 6 | 6 | 2 | - | 7-8 | 10 | 800 |
| 15 | Dalwhinnie | 1017.0 | -12 | SW | 4 | d | 49 | 95 | 6 | 4 | 2 | - | 7-8 | 10 | 800 |
| | Aberdeen | 1014.1 | -32 | SW | 2 | c | 48 | 75 | 7 | 5 | 9 | - | 2-3 | 7-8 | 4000 |
| | Wick | 1009.7 | -38 | SW | 4 | c | 52 | 85 | 8 | 9 | 2 | - | 7-8 | 7-8 | 1500 |
| 16 | Lerwick | 1008.3 | -40 | W'S | 1 | $r_o r_o$ | 45 | 85 | 6 | 6 | - | - | 10 | 10 | 800 |
| 17 | Blacksod Point | 1028.1 | +4 | W | 3 | o | 52 | 95 | 7 | 5 | - | - | 10 | 10 | <150 |
| 18 | Malin Head | 1023.6 | -12 | WSW | 4 | c/d | 52 | 95 | 6 | 5 | - | - | 9+ | 9+ | 1500 |
| | Aldergrove | 1025.5 | -10 | WSW | 4 | c | 52 | 85 | 7 | 5 | - | - | 9+ | 9+ | 1500 |
| | Donaghadee | 1025.1 | -6 | W | 2 | c | 54 | 85 | 7 | 8 | - | - | 7-8 | 7-8 | 1500 |
| 19 | Birr Castle | 1029.4 | -6 | SW'W | 1 | c | 53 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 |
| 20 | Valentia Obsy. | 1032.1 | -6 | W'N | 2 | c | 52 | 95 | 8 | 5 | - | - | 9+ | 9+ | 800 |
| | Roches Point | 1030.7 | -6 | N | 3 | c | 52 | 95 | 8 | 3 | - | - | 7-8 | 7-8 | 1500 |

### OBSERVATIONS at 18h. G.M.T. 26th December

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1025.7 | -6 | W | 2 | bc | 50 | 85 | 5 | - | 7 | 1 | 0 | 2-3 | — | 1 | · |
| Croydon | 1025.9 | -2 | W | 2 | c | 51 | 85 | 6 | 5 | - | - | 7-8 | 7-8 | 2500 | 1 | · |
| S. Farnborough | 1026.3 | 0 | W'S | 1 | bc | 45 | 95 | 7 | 5 | 1 | 8 | 1 | 2-3 | 4000 | 1 | · |
| Winchester | 1026.9 | 0 | W'N | 3 | bc | 48 | 95 | 7 | 5 | - | - | 4-6 | 4-6 | 2500 | 1 | · |
| Boscombe Down | 1027.2 | -4 | NW | 3 | c | 46 | 95 | 7 | 5 | - | - | 7-8 | 7-8 | 1500 | 1 | · |
| Calshot, S'thmtn | 1027.6 | -6 | WSW | 3 | c | 51 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | 1 |
| Dungeness | * | * | SW | 2 | cf | * | * | 3 | 4 | 2 | * | 7-8 | 9 | 1500 | ·/ | 1 |
| Lympne | 1026.2 | -2 | W | 3 | o | 49 | 95 | 4 | 5 | - | - | 10 | 10 | 800 | 1 | · |
| Shoeburyness | 1024.9 | -6 | WSW | 3 | c | 51 | 95 | 5 | 5 | - | - | 10 | 10 | 1500 | 1 | · |
| Felixstowe | 1024.6 | -8 | W | 2 | bc | 50 | 85 | 6 | 5 | - | - | 4-6 | 4-6 | 4000 | 0 | 1 |
| Gorleston | 1022.7 | -6 | WNW | 2 | c | 48 | 95 | 6 | 5 | - | - | 10 | 10 | 2500 | 0 | 1 |
| Cranwell | 1023.5 | -2 | W'S | 4 | bc | 47 | 85 | 6 | 5 | - | 1 | Tr | 2-3 | 2500 | 1 | · |
| Birmingham | 1025.1 | -2 | W | 2 | $d_o d_o$ | 51 | 85 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | · |
| Upper Heyford | 1026.1 | 0 | W'S | 2 | c | 47 | 95 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | · |
| Leafield | 1025.9 | -6 | W'S | 2 | bc | 47 | 85 | 7 | 5 | 8 | 2 | 2-3 | 4-6 | 4000 | 1 | · |
| Ross-on-Wye | 1026.1 | -6 | SW | 2 | c | 51 | 85 | 8 | 5 | - | - | 9+ | 9+ | 4000 | 1 | · |
| Portland Bill | 1027.4 | -4 | W | 3 | c | 51 | 95 | 7 | 4 | 6 | - | 7-8 | 9+ | 2500 | 0 | 3 |
| Plymouth | 1028.6 | -4 | W | 2 | c | 51 | 95 | 6 | 5 | - | - | 9 | 9 | 1500 | 0 | 1 |
| Falmouth | 1029.1 | -4 | WNW | 2 | c | 51 | 95 | 6 | 5 | 2 | - | 4-6 | 10 | 4000 | 1 | 0 |
| Scilly (St. Mary's) | 1030.6 | -4 | NNW | 3 | c/d | 51 | 95 | 6 | 8 | - | - | 9 | 9 | 2500 | 1 | 2 |
| Guernsey | 1028.3 | -6 | NNW | 2 | o | 51 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | 1 |
| Pembroke | 1027.2 | -2 | NNW | 2 | bc | 52 | 95 | 6 | 3 | 7 | - | 2-3 | 4-6 | 2500 | 1 | 1 |
| Holyhead | 1026.0 | -2 | W'N | 5 | c | 52 | 95 | 6 | 5 | - | - | 9+ | 9+ | 1500 | 1 | 2 |
| Chester (Sealand) | 1025.1 | -6 | WNW | 4 | c | 52 | 75 | 7 | 5 | - | - | 7-8 | 7-8 | 800 | 1 | · |
| L'pool (Bidston) | 1024.7 | -4 | W'N | 5 | $id_o$ | 50 | 85 | 8 | 5 | - | - | 9 | 9 | 2500 | 1 | · |
| Harrogate | 1022.2 | -6 | W | 3 | c | 50 | 85 | 7 | 6 | - | - | 9+ | 9+ | 2500 | 1 | · |
| Spurn Head | 1021.8 | -6 | NW'W | 4 | bc | 47 | 95 | 6 | 5 | - | 9 | 2-3 | 4-6 | 1500 | 0 | 3 |
| Catterick | 1020.5 | -6 | NW | 3 | c | 53 | 75 | 8 | 4 | - | 2 | 9 | 9+ | 1500 | 1 | · |
| Tynemouth | 1019.0 | -2 | WNW | 3 | bc | 52 | 85 | 6 | 2 | - | - | 4-6 | 4-6 | 2500 | 0 | 2 |
| Inchkeith | 1017.7 | -8 | WSW | 5 | c | 50 | 85 | 7 | 5 | 1 | - | 4-6 | 7-8 | 1500 | 0 | 3 |
| Leuchars | 1015.4 | -6 | W | 3 | c | 50 | 75 | 8 | 4 | 9 | 1 | 2-3 | 9 | 2500 | 1 | · |
| Renfrew | 1019.6 | -8 | WSW | 3 | $ir_o$ | 51 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | · |
| Eskdalemuir | 1020.5 | -6 | WSW | 4 | c | 48 | 75 | 7 | 5 | 1 | - | 4-6 | 10 | 1500 | 1 | · |
| Tiree | 1019.2 | -8 | W'S | 6 | c | 51 | 95 | 6 | 5 | 7 | - | 2-3 | 10 | 2500 | 0 | 4 |
| Stornoway | 1011.7 | -6 | WSW | 6 | id | 51 | 95 | 6 | 6 | 2 | - | 7-8 | 10 | 1500 | 1 | 4 |
| Dalwhinnie | 1017.1 | -10 | W | 3 | $ir_o$ | 48 | 85 | 6 | 3 | 2 | - | 4-6 | 10 | 800 | 1 | · |
| Aberdeen | 1011.8 | -14 | WSW | 3 | c | 52 | 75 | 8 | 5 | 4 | 6 | 2-3 | 7-8 | 5100 | 1 | 2 |
| Wick | 1007.5 | -12 | WNW | 6 | c | 51 | 85 | 8 | 8 | 7 | 8 | 4-6 | 7-8 | 2500 | 1 | 3 |
| Lerwick | 1002.7 | -6 | WSW | 5 | o/r | 50 | 95 | 6 | 6 | - | - | 10 | 10 | 800 | 2 | · |
| Blacksod Point | 1026.8 | -8 | W | 4 | o | 52 | 85 | 6 | 5 | - | - | 10 | 10 | <150 | 0 | 3 |
| Malin Head | 1022.3 | -6 | WSW | 5 | c | 51 | 95 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 0 | 4 |
| Aldergrove | 1024.1 | -8 | WSW | 4 | c | 49 | 85 | 7 | 8 | - | - | 9+ | 9+ | 1500 | 1 | · |
| Donaghadee | 1023.4 | -8 | W | 3 | c | 51 | 75 | 7 | 5 | 2 | - | 4-6 | 7-8 | 1500 | 0 | 2 |
| Birr Castle | 1028.2 | -2 | WSW | 2 | c | 50 | 85 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 1 | · |
| Valentia Obsy. | 1030.7 | +2 | NW'W | 2 | c | 51 | 75 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | 3 |
| Roches Point | 1029.9 | +4 | N | 3 | c | 50 | 95 | 8 | 5 | - | + | 7-8 | 7-8 | 2500 | 0 | 3 |

### PAST 24 HOURS. WEATHER.

| Stations | 7h.–13h. 26th (37) | 13h.–18h. 26th (38) | 18h 26th to 1h. 27th (39) | 1h.–7h. 27th (40) |
|---|---|---|---|---|
| London (Kew) | $cm_o w$ | $cz_o$ | $cm_o$ | cw |
| Croydon | $cm_o$ | $cm_o$ | | b |
| S. Farnborough | $cm_o cbc$ | bccbc | bcw | cwbcw |
| Winchester | $ocr_o m_o c$ | bcc | bccdm | cbc |
| Boscombe Down | offcmo | bbcc | c | c |
| Calshot, S'thmtn | $cd_o$ | bcc | | bcbw |
| Dungeness | f | bc | · | bc |
| Lympne | bcfcmo | ofcm | | cb |
| Shoeburyness | bcmcm | $cmcm_o$ | cm bc | bcbw |
| Felixstowe | $cbcm_o$ | $cm_o bcz_o$ | $bcbz_o$ | $bbcz_o$ |
| Gorleston | codm | cbc | bccb | bbc |
| Cranwell | ofbc | bcbmo | | $bm_o$ |
| Birmingham | $cd_o$ | bcc | $cpr_o$ | cbcc |
| Upper Heyford | cbcc | cbc | $cr_o c$ | cbcbx |
| Leafield | fc | cbc | $cd_o c$ | cbc |
| Ross-on-Wye | bccbcv | cvbvc | cbc | cbcc |
| Portland Bill | c | c | | c |
| Plymouth | $cm_o bc$ | $id_o ircm_o$ | $cm_o ir_o$ | c |
| Falmouth | $cm_o d_o bc$ | $bccd_o m_o$ | $cid_o m_o bc$ | bcc |
| Scilly (St. Mary's) | c | $cd_o$ | $cd_o c$ | c |
| Guernsey | omifo | o | | |
| Pembroke | bccirfd | fdc | c | c |
| Holyhead | $cbccd_o$ | $d_o cm_o$ | $cm_o$ | c |
| Chester (Sealand) | $cd_o d_o c$ | $cid_o o$ | c | c |
| L'pool (Bidston) | c | $cid_o c$ | cq | cq |
| Harrogate | $cd_o c$ | c | cb | bbcc |
| Spurn Head | bc | czbc | bcw | bccbc |
| Catterick | cbcc | c | c | c |
| Tynemouth | cbc | bc | bc | c |
| Inchkeith | c | c | c | c |
| Leuchars | cwc | cvcqc | c | cqv |
| Renfrew | $ccr_o$ | $cr_o d_o c$ | $cr_o id_o q$ | $cid_o q$ |
| Eskdalemuir | $cid_o$ | $cd_o c$ | $cid_o$ | $cid_o$ |
| Tiree | $cm_o$ | $cm_o$ | $m_o id_o$ | c |
| Stornoway | cirdq | cidq | oir | crr |
| Dalwhinnie | c | ir | · | c |
| Aberdeen | c | cbcc | c | c |
| Wick | circ | c | cir | $cir_o c$ |
| Lerwick | $cor_o r_o m_o$ | $orrm_o$ | oir cpr | cpr |
| Blacksod Point | id | o | cq | cq |
| Malin Head | $cid_o m_o m_o$ | c | $cz_o z_o$ | $cz_o z_o$ |
| Aldergrove | c | c | c | c |
| Donaghadee | c | c | c | c |
| Birr Castle | oidc | c | c | c |
| Valentia Obsy. | $oid_o c$ | c | c | c |
| Roches Point | $cp_o c$ | c | c | c |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220-1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
$k/s_o$, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
$s_o/k$, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus.
R, heavy rain. $r_o$, slight rain.
rr, continuous rain.

<, less than (for cloud height).

⊕, Solar halo. ⦶, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"t r" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky.
"9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

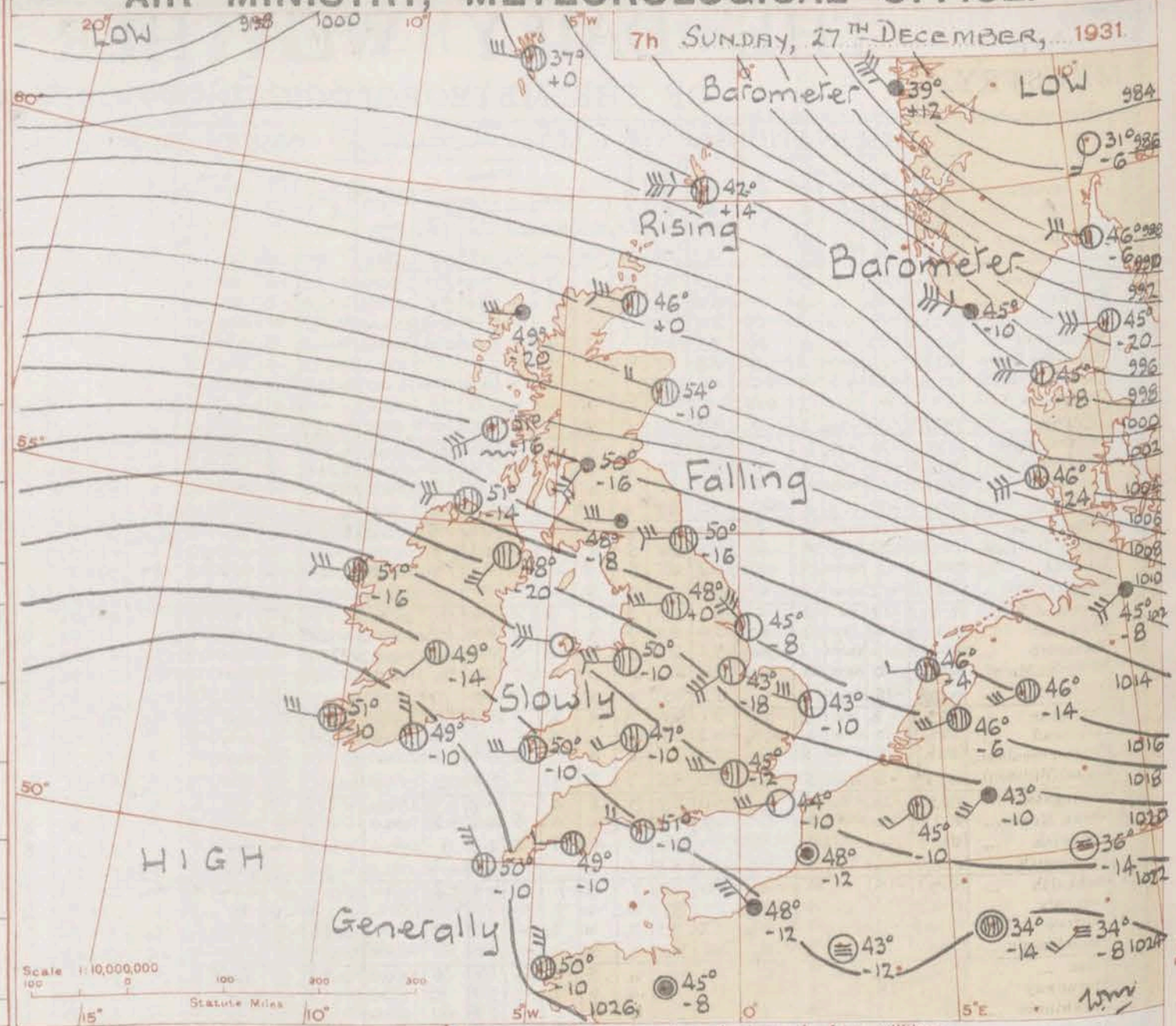
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for 26th December 1931.

| Districts | Stations | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 25th to 9h. 26th | Temperature. Max. 9h.—17h. 25th | Rainfall. Night. 17h. 25th to 9h. 26th | Rainfall. Day. 9h.—17h. 26th | Sunshine. Sunrise to Sunset. 26th |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | o | oco | 45 | 53 | Tr | – | 0.6 |
| | Bournemouth | ocb | bcco | 47 | 55 | 0.3 | – | 2.0 |
| | Ventnor ... | of | ofc | 48 | 52 | 2 | Tr | 1.2 |
| | Southsea ... | omcoc | bcb | 48 | 52 | – | – | 1.4 |
| | Bognor Regis | co | bcc | 47 | 53 | – | – | 0.6 |
| | Littlehampton | omc | cbc | 46 | 51 | – | – | 1.0 |
| | Worthing ... | o | c | 46 | 50 | Tr | – | 0.2 |
| | Brighton ... | fec | cm | 46 | 49 | – | – | 0.0 |
| | Eastbourne† | cofo | oc | 47 | 50 | – | – | 0.0 |
| | Hastings‡ ... | cfmo | om | 45 | 51 | 0.2 | – | 0.0 |
| | Folkestone ... | bccom | om | 46 | 52 | Tr | – | 1.7 |
| | Dover... ... | bcc | com | 47 | 55 | Tr | – | 2.1 |
| | Deal ... ... | bcc | com | 46 | 55 | – | – | 1.4 |
| | Ramsgate ... | bccm | cm | 48 | 54 | Tr | – | 1.5 |
| | Margate ... | bcc | c | 46 | 54 | – | – | 1.5 |
| 2 | Southend ... | cfm | com | 46 | 52 | 0.4 | – | 0.4 |
| | Maldon ... | c | co | 48 | 54 | – | – | 0.3 |
| | Clacton-on-Sea | bcm | c | 46 | 52 | 0.4 | – | 0.3 |
| | Dovercourt ... | abcc | bcc | 47 | 53 | Tr | – | 0.4 |
| | Lowestoft ... | | | | | | | |
| | Skegness ... | ombc | bc | 44 | 50 | – | – | 0.0 |
| | Mablethorpe | abcfm | obccm | 35 | 51 | – | – | 0.6 |
| | Cleethorpes ... | roc | coc | ~~41~~ 40 | 51 | Tr | – | 1.9 |
| 3 | Leamington S. | c | o | 48 | 53 | – | – | 1.7 |
| 4 | Cheltenham† | bcc | cbco | 47 | 53 | Tr | – | 2.1 |
| 5 | Bath ... ... | cbc | bbc | 51 | 54 | Tr | – | 1.7 |
| | Weymouth ... | cbcd | dce | 48 | 54 | – | Tr | 1.2 |
| | Jersey ... | cf | cdcm | 48 | 52 | 0.2 | Tr | 0.0 |
| | Torquay ... | cmw | cmbcb | 46 | 57 | – | – | 2.0 |
| | Penzance ... | cbc | cm | 48 | 56 | 0.3 | – | 1.4 |
| | St. Ives ... | ocdo | do | 48 | 52 | 1 | Tr | 0.2 |
| | Bude ... ... | od | d | 50 | 51 | 3 | 2 | 0.0 |
| | Ilfracombe ... | | | | | | | |
| 6 | Aberystwyth | feirc | ofedc | 48 | 50 | 2 | 2 | 0.1 |
| 7 | Llandudno ... | c | dmo | 48 | 52 | 1 | 1 | 1.1 |
| | Colwyn Bay... | ocbc | cddo | 47 | 54 | 1 | 1 | 1.0 |
| | Rhyl ... ... | bcd | do | 47 | 53 | 0.3 | 0.1 | 1.0 |
| 8 | Wallasey ... | cbc | bccid | 45 | 51 | 0.3 | 1 | 0.5 |
| | Southport‖ ... | co | odo | 46 | 50 | 2 | 0.5 | 0.0 |
| | Blackpool ... | opc | c | 46 | 50 | 1 | 1 | 0.0 |
| | Morecambe ... | prc | c | 43 | 49 | 3 | – | 0.0 |
| 9 | Ilkley... ... | c | c | 43 | 52 | 1 | – | 0.5 |
| 10 | Berwick-on-T. | c | c | 41 | 53 | – | – | 1.6 |
| 11 | Dunbar ... | cmo | bcmo | 43 | 53 | – | – | 0.5 |
| 12 | Douglas ... | cbc | cidcb | 44 | 53 | – | Tr | 1.0 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‡ Min. Temp. 17h.-9h.

# AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm, –
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
Clear sky. Sky less than 1/10 clouded. Sky 1/10 to 1/5 clouded. Sky 1/5 to 1/10 clouded. Overcast sky.
Rain falling. Snow. Hail. Fog. Mist. Thunder. Thunderstorm.
SEA DISTURBANCE. Rough. High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 27th Dec, 1931.

| Districts | Forecasts |
|---|---|
| 1. S.E. England<br>2. E. England<br>3. E. Midlands | Wind west or southwest, moderate; mainly fair; mild. |
| 4. W. Midlands<br>5. S.W. England<br>6. South Wales | Wind northwest or west, backing, moderate or fresh; cloudy; perhaps local drizzle; mild. |
| 7. North Wales<br>8. N.W. England<br>9. N. Midlands<br>10. N.E. England | Wind west or southwest, fresh, strong locally; cloudy; local drizzle, perhaps rain later; mild today, less mild tomorrow. |
| 11. S.E. Scotland<br>12. S.W. Scotland & Isle of Man<br>13. A. W. Scotland. B. N.W. Scotland.<br>14. Mid-Scotland<br>15. N.E. Scotland | Wind west or southwest, fresh or strong, perhaps a gale in exposed places, veering again later; cloudy; local drizzle today; rain or showers later; mild today, probably colder tomorrow. Wind west or southwest, becoming northerly later, fresh or strong, gale locally; cloudy; some rain or showers, perhaps sleet or snow later; colder later. |
| 16. Orkneys and Shetlands. | Wind westerly or variable becoming northerly, strong at times; cloudy; rain, sleet or snow; becoming colder. |
| 17. N.W. Ireland<br>18. N.E. Ireland | Wind west or southwest, fresh or strong; cloudy; local drizzle today; rain or showers later; probably less mild later. |
| 19. S.E. Ireland<br>20. S.W. Ireland | Wind west or southwest, moderate or fresh; cloudy; perhaps local drizzle; mild. |

### GENERAL INFERENCE.

An anticyclone centred off our southwest coasts is decreasing in intensity. A large low-pressure system lies to northeast of the British Isles. A secondary depression over Iceland will probably deepen and move east or southeast. Unsettled weather is probable in Scotland, with perhaps sleet or snow later. Conditions will be mild in the South and mainly fair at first, but less settled weather may spread from the North later.

### FURTHER OUTLOOK.

Colder in the North and perhaps in the South also.

Time of issue of Gale Warnings.

South cone at 1420 on 26th in districts 11, 13, 15 and 16.

Forecasts issued at 1030 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press Kingsway, W.C.2.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

...'s Projection Scale 1:4×10⁷ along meridian at 55°N

Statute Miles 0 1 2 3 4 500

EXPLANATION OF CHART.

...ETER. Isobars are drawn for intervals of four millibars.

Arrows fly with the wind. Number of feathers indicate Beaufort Force.

...Calm.

...ATURE is given in degrees F.

...ER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 27th December 1931.

No. 25602

### OBSERVATIONS at 1 hr. G.M.T. 27th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | | | | | | | | | | | | | | |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot (S'thmtn) | 8 | | | | | | | | | | | | | | |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | | | | | | | | | | | | | | |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1021·2 | -6 | WNW | 2 | b | 47 | 95 | 7 | - | - | - | 0 | 0 | - |
| | Cranwell | 240 | | | | | | | | | | | | | | |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1025·7 | -6 | W | 2 | c | 51 | 95 | 8 | 4 | 4 | - | 4·6 | 10 | 2500 |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1028·4 | -6 | NWN | 3 | bc | 50 | 95 | 7 | 2 | 3 | - | 2·3 | 4·6 | 4000 |
| | Scilly (St. Mary's) | 163 | 1029·1 | -4 | N'N | 4 | c | 51 | 95 | 8 | 5 | - | - | 9+ | 9+ | 4000 |
| | Guernsey | 175 | 1026·8 | -10 | NNW | 2 | c/d | 50 | 95 | 9 | 5 | - | - | 10 | 10 | 2500 |
| 6 | Pembroke | 142 | 1026·1 | -6 | - | 0 | c | 51 | 95 | 7 | 5 | 6 | - | 7·8 | 9+ | 2500 |
| 7 | Holyhead | 26 | | | | | | | | | | | | | | |
| | Chester (Sealand) | 16 | - | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1018·7 | -4 | WNW | 6 | bc | 46 | 85 | 7 | - | 1 | - | 0 | 2·3 | - |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | | | | | | | | | | | | | | |
| 11 | Inchkeith | 190 | 1014·1 | -6 | W | 6 | c | 51 | 95 | 8 | 5 | 8 | - | 4·6 | 7·8 | 2500 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1010·4 | -4 | W | 7 | rr | 50 | 95 | 5 | 6 | - | - | 10 | 10 | 800 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1006·0 | -2 | WNW | 6 | ir | 50 | 95 | 8 | 9 | 7 | 8 | 4·6 | 7·8 | 2500 |
| 16 | Lerwick | 54 | 9928 | -4 | W'N | 8 | c/pr | 45 | 65 | 7 | 8 | - | - | 7·8 | 7·8 | 1500 |
| 17 | Blacksod Point | 18 | 1025·3 | -6 | W | 4 | 0 | 52 | 75 | 7 | 5 | - | - | 10 | 10 | 4150 |
| 18 | Malin Head | 52 | 1021·1 | -2 | W | 5 | c | 51 | 95 | 6 | 5 | 9 | - | 4·6 | 9 | 1500 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | | | | | | | | | | | | | | |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 27th December

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1022·2 | -14 | SWW | 2 | c | 45 | 86 | 7 | 5 | - | - | 9 | 9 | 2500 | 1 | * |
| | Croydon | 1022·4 | -12 | WNW | 3 | c | 45 | 86 | 7 | 5 | 3 | - | 4·6 | 9 | 4000 | 1 | * |
| | S. Farnborough | 1022·6 | -10 | W'N | 2 | c | 42 | 96 | 7 | 6 | - | - | 7·8 | 7·8 | 4000 | 1 | * |
| | Winchester | 1023·1 | -12 | W | 3 | bc | 43 | 85 | 7 | - | 3 | - | 0 | 2·3 | - | 1 | * |
| | Boscombe Down | 1023·6 | -8 | WNW | 3 | b | 43 | 86 | 7 | - | 4 | - | 0 | 1 | - | 1 | * |
| | Calshot (S'thmtn) | 1024·2 | -6 | W'S | 3 | bc | 47 | 85 | 7 | 5 | - | - | 2·3 | 2·3 | 2500 | 0 | 1 |
| | Dungeness | * | * | SW | 2 | c | * | * | 7 | 1 | 7 | * | 4·6 | 7·8 | 4000 | * | 0 |
| | Lympne | 1022·5 | -10 | W | 3 | b | 44 | 95 | 7 | - | 4 | - | 0 | 1 | - | 1 | * |
| 2 | Shoeburyness | 1021·2 | -10 | W'S | 3 | b | 45 | 85 | 7 | - | 3 | - | 0 | 1 | - | 1 | * |
| | Felixstowe | 1020·8 | -8 | W'N | 3 | bc | 44 | 85 | 6 | 5 | 3 | - | 2·3 | 4·6 | 4000 | 0 | 2 |
| | Gorleston | 1019·0 | -10 | WNW | 3 | bc | 43 | 95 | 7 | - | 5 | - | 0 | 2·3 | - | 0 | 2 |
| | Cranwell | 1019·0 | -18 | WSW | 5 | bc | 43 | 95 | 6 | - | - | 1 | 0 | 2·3 | - | 1 | * |
| 3 | Birmingham | 1021·6 | -12 | WSW | 2 | c | 45 | 85 | 8 | 5 | 3 | - | 4·6 | 9 | 4000 | 1 | * |
| | Upper Heyford | 1022·4 | -14 | W'S | 2 | bc | 39 | 95 | 8 | 5 | - | - | 2·3 | 2·3 | 4000 | 0 | * |
| | Leafield | 1022·1 | -12 | W'N | 4 | bc | 42 | 85 | 8 | 5 | - | - | 2·3 | 2·3 | 4000 | 1 | * |
| 4 | Ross-on-Wye | 1022·9 | -10 | W'S | 2 | c | 47 | 75 | 8 | 5 | - | - | 9 | 9 | 4000 | 1 | * |
| 5 | Portland Bill | 1024·1 | -10 | NW | 2 | c | 49 | 50 | 95 | 8 | 2 | - | - | 9+ | 9+ | 2500 | 0 | 2 |
| | Plymouth | 1025·6 | -10 | W | 1 | c | 49 | 85 | 7 | 5 | - | - | 9+ | 9+ | 1500 | 0 | 1 |
| | Falmouth | 1025·9 | -4 | NW | 2 | c | 49 | 85 | 7 | 5 | - | - | 10 | 10 | 4000 | 0 | 0 |
| | Scilly (St. Mary's) | 1027·5 | -10 | NNW | 3 | c | 50 | 85 | 7 | 5 | - | - | 9 | 9 | 4000 | 0 | 2 |
| | Guernsey | 1025·4 | -10 | N | 3 | c | 51 | 75 | 8 | 8 | 1 | - | 7·8 | 9 | 2500 | 1 | 1 |
| 6 | Pembroke | 1024·2 | -10 | W | 3 | c | 50 | 95 | 7 | 6 | 6 | - | 7·8 | 9+ | 2500 | 0 | 5 |
| 7 | Holyhead | 1021·5 | -14 | WNW | 5 | c | 51 | 75 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | 2 |
| | Chester (Sealand) | 1021·2 | -10 | W | 4 | c | 50 | 75 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| 8 | L'pool (Bidston) | 1020·1 | -12 | WNW | 6 | c | 48 | 85 | 8 | 5 | - | - | 9+ | 9+ | 2500 | 0 | * |
| 9 | Harrogate | 1018·2 | 0 | W | 3 | c | 48 | 85 | 7 | 6 | - | - | 9+ | 9+ | 2500 | 1 | * |
| 10 | Spurn Head | 1016·1 | -8 | NWW | 5 | bc | 45 | 95 | 7 | - | 7 | 9 | 0 | 4·6 | - | 1 | 3 |
| | Catterick | 1016·5 | -6 | WNW | 1 | c | 50 | 75 | 8 | 4 | 3 | 2 | 4·6 | 9+ | 1500 | 1 | * |
| | Tynemouth | 1015·0 | -16 | W | 4 | c | 50 | 85 | 7 | 6 | - | - | 9 | 9 | 1500 | 0 | 2 |
| 11 | Inchkeith | 1012·0 | -8 | W | 8 | c | 49 | 95 | 8 | 5 | 7 | - | 4·6 | 9 | 2500 | 0 | 4 |
| | Leuchars | 1010·8 | -8 | WSW | 5 | c | 51 | 85 | 9 | 4 | 3 | 1 | 4·6 | 9 | 2500 | 1 | * |
| 12 | Renfrew | 1014·2 | -16 | WSW | 5 | id. | 50 | 86 | 7 | 6 | - | - | 9+ | 9+ | 1500 | 1 | * |
| | Eskdalemuir | 1015·7 | -18 | W'S | 3 | id. | 48 | 85 | 6 | 5 | 2 | - | 9+ | 10 | 800 | 1 | * |
| 13A | Tiree | 1014·2 | -3 | W'S | 6 | c | 51 | 85 | 7 | 5 | 2 | - | 9 | 10 | 2500 | 0 | 4 |
| 13B | Stornoway | 1007·4 | -20 | W | 3 | d | 49 | 95 | 6 | 6 | 2 | - | 9 | 10 | 1500 | 1 | 2 |
| 15 | Dalwhinnie | 1009·6 | -12 | WSW | 4 | c | 49 | 75 | 7 | 8 | 2 | - | 4·6 | 9 | 800 | 0 | * |
| | Aberdeen | 1007·9 | -10 | WNW | 2 | c | 54 | 65 | 8 | 5 | - | - | 9 | 9 | 1500 | 1 | 1 |
| | Wick | 1005·7 | 0 | WNW | 4 | c | 46 | 95 | 8 | 5 | 1 | - | 7·8 | 10 | 2500 | 1 | 3 |
| 16 | Lerwick | 1000·1 | +14 | W'N | 8 | c/pr | 42 | 65 | 7 | 8 | 3 | - | 4·6 | 9 | 1500 | 1 | * |
| 17 | Blacksod Point | 1022·5 | -16 | W | 4 | 0 | 51 | 75 | 7 | 5 | - | - | 10 | 10 | 4150 | 0 | 3 |
| 18 | Malin Head | 1017·8 | -14 | W | 6 | c | 51 | 85 | 6 | 5 | - | - | 9+ | 9+ | 2500 | 0 | 3 |
| | Aldergrove | 1020·0 | -20 | SWW | 4 | c | 48 | 75 | 8 | 5 | 3 | - | 7·8 | 9+ | 4000 | 1 | * |
| | Donaghadee | 1019·2 | -8 | W | 3 | c | 50 | 75 | 7 | 5 | - | - | 7·8 | 7·8 | 1500 | 0 | 2 |
| 19 | Birr Castle | 1024·5 | -14 | SW | 1 | c | 49 | 85 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | * |
| 20 | Valentia Obsy.† | 1027·3 | -10 | W | 3 | c | 51 | 75 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| | Roches Point | 1026·8 | -10 | N | 3 | c | 49 | 75 | 8 | 5 | - | - | 7·8 | 7·8 | 2500 | 0 | 3 |

### PAST 24 HOURS.

| District | Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F (32) | Temperature Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine (36) Hrs. |
|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 55 | 44 | 38 | - | Tr. | 0·3 |
| | Croydon | 55 | 45 | 41 | Tr | - | 0·7 |
| | S. Farnborough | 57 | 41 | 28 | - | Tr. | 3·1 |
| | Winchester | 56 | 42 | 39 | 0·1 | 0·1 | 1·6 |
| | Boscombe Down | 53 | 42 | 38 | 0·1 | - | * |
| | Calshot (S'thmtn) | 54 | 46 | 41 | Tr | - | 1·6 |
| | Dungeness | 48 | 44 | * | - | Tr. | * |
| | Lympne | 50 | 44 | 40 | - | - | 0·0 |
| 2 | Shoeburyness | 54 | 44 | 41 | Tr | Tr. | 0·8 |
| | Felixstowe | 52 | 42 | 35 | - | - | 0·4 |
| | Gorleston | 51 | 43 | 39 | 0·1 | - | 0·0 |
| | Cranwell | 51 | 41 | 39 | - | - | 0·3 |
| 3 | Birmingham | 53 | 44 | 39 | Tr | Tr. | 2·0 |
| | Upper Heyford | 54 | 39 | 28 | - | Tr. | * |
| | Leafield | 52 | 41 | 35 | - | Tr. | 2·3 |
| 4 | Ross-on-Wye | 56 | 47 | 41 | - | - | 2·4 |
| 5 | Portland Bill | 52 | 48 | * | - | - | * |
| | Plymouth | 55 | 49 | 47 | Tr | 0·1 | * |
| | Falmouth | 54 | 49 | * | Tr | 0·3 | * |
| | Scilly (St. Mary's) | 53 | 49 | * | Tr | Tr. | 1 |
| | Guernsey | 52 | 49 | 45 | - | 1 | 0 |
| 6 | Pembroke | 56 | 50 | * | 0·6 | - | 0·0 |
| 7 | Holyhead | 53 | 51 | 47 | 0·4 | - | 0·1 |
| | Chester (Sealand) | 54 | 50 | 45 | 0·1 | - | 1·7 |
| 8 | L'pool (Bidston) | 50 | 47 | 47 | 0·4 | - | 1·0 |
| 9 | Harrogate | 51 | 46 | 41 | Tr | - | 1·6 |
| 10 | Spurn Head | 48 | 45 | * | - | Tr. | 0·6 |
| | Catterick | 55 | 48 | 42 | - | - | * |
| | Tynemouth | 56 | 48 | 43 | - | - | * |
| 11 | Inchkeith | 52 | 48 | 42 | - | - | 0·0 |
| | Leuchars | 54 | 49 | 46 | - | - | 0·6 |
| 12 | Renfrew | 52 | 50 | 47 | 0·1 | 0·2 | 0·0 |
| | Eskdalemuir | 51 | 47 | 45 | 0·1 | 0·1 | 0·0 |
| 13A | Tiree | 54 | 51 | 49 | - | Tr. | 0·0 |
| 13B | Stornoway | 52 | 48 | * | 1 | 4 | 0·0 |
| 15 | Dalwhinnie | 50 | 46 | 40 | - | - | 0·0 |
| | Aberdeen | 55 | 51 | 46 | - | - | 0·0 |
| | Wick | 52 | 45 | * | 2 | 0·2 | * |
| 16 | Lerwick | 50 | 41 | * | 15 | 1 | 0·0 |
| 17 | Blacksod Point | 53 | 50 | * | Tr | - | * |
| 18 | Malin Head | 52 | 50 | * | 0·3 | - | 0·0 |
| | Aldergrove | 52 | 47 | 44 | - | - | 0·0 |
| | Donaghadee | 54 | 48 | * | - | - | * |
| 19 | Birr Castle | 53 | 47 | 46 | 0·5 | - | 0·0 |
| 20 | Valentia Obsy.† | 53 | 51 | 48 | 0·2 | - | 0·0 |
| | Roches Point | 53 | 46 | * | 0·1 | - | * |

## LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon (24 hrs. ended 9h.) | Weather Night (24 hrs. ended 9h.) | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. (Yesterday) | Humidity 15h. G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew | 18 | cm,w | c 3 | cm,w | 55 | 44 | 38 | - | Tr | 0·3 | * | * | 6 |
| Croydon | 217 | cm | cm | b | 55 | 45 | 41 | Tr. | - | 0·7 | * | * | |
| Greenwich (Royal Observatory) | 149 | cm | cm | cbwm | 55 | 44 | 34 | - | Tr. | 0·0 | 83 | 78 | 4 |
| City (Bunhill Row) | — | * | * | * | * | * | * | * | * | 0·0 | * | * | * |
| Westminster (St. James' Park) | 27 | * | * | * | 52 | 47 | 40 | — | | 0·0 | 91 | 94 | * |
| Regents Pk. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | * | * | * | * |
| Camden Square | 110 | c | c | * | 53 | 44 | 37 | - | - | * | * | 85 | * |
| Kensington | 80 | bcc | c | * | 54 | 44 | 36 | - | - | 0·2 | At 18h. 84 | 93 | * |
| Hampstead Observatory | 450 | om | om | * | 52 | 40 | 32 | Tr | - | 0·0 | * | 89 | * |

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 27th.

| South Kensington Max. | Time. | Min. | Time. |
|---|---|---|---|
| 0·8 | 12h., 17-19h., 26th. | Nil | 4-6h., 27th. |

| Kew Observatory Max. | Time. | Min. | Time. |
|---|---|---|---|
| 0·4 | 19h. 26th | <0·1 | 4h. 27th. |

## FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 26th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 27th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris | | | | | | | | | | | 43 | | - | |
| Brussels | | | | | | | | | | | 43 | 30 | - | - |
| Berlin | 1019·2 | WSW | 5 | 0 | 41 | | | | | | | | | |
| Zürich | 1028·7 | NW | 1 | C | 36 | 1024·6 | SE | 1 | C | 34 | | | | |
| Rome | | | | | | | | | | | | | | |

## EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13–18 | 9 | 47–54 |
| 1 | 1–3 | 5 | 19–24 | 10 | 55–63 |
| 2 | 4–7 | 6 | 25–31 | 11 | 64–75 |
| 3 | 8–12 | 7 | 32–38 | 12 | 75 |
| | | 8 | 39–46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | | Objects not visible at |
|---|---|---|
| 0 | Dense fog | 55 yards. |
| 1 | Thick fog | 220 " |
| 2 | Fog | 550 " |
| 3 | Moderate fog | 1,100 " |
| 4 | Mist or haze | 1¼ miles. |
| 5 | Poor visibility | 2½ " |
| 6 | Moderate " | 6½ " |
| 7 | Good " | 12½ " |
| 8 | Very good " | 31 " |
| 9 | Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | | | |
|---|---|---|---|
| 0 | Calm. | 5 | Very rough. |
| 1 | Smooth. | 6 | High. |
| 2 | Slight. | 7 | Very high. |
| 3 | Moderate. | 8 | Precipitous. |
| 4 | Rough. | 9 | Confused. |

TERMS OF SUBSCRIPTION. { Single Copies, 1d. each; by post 1½d. 2/6 per month; 6/6 per quarter; 25/- per year.

METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

Page 1.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 28th December 1931.

No. 25.603

### OBSERVATIONS at 13h. G.M.T. 27th December

| District | Stations (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew)... | 1020·3 | -16 | W | 3 | c | 48 | 75 | 6 | 5 | - | - | 10 | 10 | 5700 |
| | Croydon ... | 1020·8 | -16 | WNW | 3 | c | 49 | 75 | 6 | 5 | - | - | 9+ | 9+ | 2500 |
| | S. Farnborough | 1020·9 | -18 | W | 2 | c | 49 | 75 | 7 | 5 | - | - | 10 | 10 | 4000 |
| | Winchester ... | 1021·6 | -14 | W'N | 3 | c | 48 | 85 | 7 | 5 | - | - | 9+ | 9+ | 4000 |
| | Boscombe Down | 1022·1 | -16 | WNW | 3 | c | 47 | 85 | 7 | 5 | - | - | 10 | 10 | 4000 |
| | Calshot, S'thmtn | 1023·1 | -10 | W | 3 | c | 50 | 75 | 7 | 5 | - | - | 9 | 9 | 2500 |
| | Dungeness ... | * | * | WSW | 2 | c | * | * | 7 | 8 | 6 | - | 4-6 | 9 | 2500 |
| | Lympne ... | 1020·6 | -20 | WNW | 3 | c | 48 | 75 | 7 | 5 | - | - | 9 | 9 | 4000 |
| 2 | Shoeburyness | 1019·6 | -16 | WNW | 3 | c | 49 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 |
| | Felixstowe ... | 1018·9 | -18 | W | 4 | c | 48 | 75 | 7 | 5 | - | - | 9+ | 9+ | 4000 |
| | Gorleston ... | 1016·5 | -14 | WNW | 3 | bc | 47 | 95 | 6 | - | 3 | - | 0 | 4-6 | - |
| | Cranwell ... | 1016·8 | -22 | W'S | 3 | bc | 49 | 75 | 6 | 1 | 3 | 1 | 1 | 2-3 | 2500 |
| 3 | Birmingham ... | 1019·4 | -14 | W | 3 | c | 49 | 65 | 8 | 5 | 3 | - | 7-8 | 7-8 | 2500 |
| | Upper Heyford | 1020·1 | -18 | W'S | 3 | c | 48 | 75 | 7 | 5 | 3 | - | 4-6 | 7-8 | 4000 |
| | Leafield ... | 1020·5 | -14 | W'S | 4 | c | 46 | 75 | 8 | 5 | - | - | 7-8 | 7-8 | 2500 |
| 4 | Ross-on-Wye ... | 1020·7 | -14 | W'N | 4 | c | 50 | 65 | 8 | 5 | - | - | 10 | 10 | 4000 |
| 5 | Portland Bill... | 1022·7 | -14 | NW | 3 | c | 50 | 95 | 8 | 2 | 2 | - | 7-8 | 10 | 4000 |
| | Plymouth ... | 1024·7 | -10 | WNW | 2 | c | 50 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 |
| | Falmouth ... | 1025·2 | -6 | W'N | 2 | c | 50 | 85 | 7 | 5 | - | - | 10 | 10 | 4000 |
| | Scilly (St. Mary's) | 1026·5 | -12 | NW'W | 3 | c | 50 | 75 | 8 | 5 | - | - | 10 | 10 | 4000 |
| | Guernsey ... | 1024·3 | -12 | NNW | 3 | c | 51 | 65 | 8 | 8 | 3 | - | 7-8 | 10 | 2500 |
| 6 | Pembroke ... | 1024·3 | -8 | WNW | 3 | c | 50 | 95 | 7 | 5 | 6 | - | 7-8 | 9+ | 2500 |
| 7 | Holyhead ... | 1019·4 | -18 | W | 5 | c | 51 | 75 | 6 | 5 | - | - | 9+ | 9+ | 4000 |
| | Chester (Sealand) | 1018·9 | -18 | W | 4 | c | 51 | 65 | 8 | 5 | - | - | 9+ | 9+ | 4000 |
| 8 | L'pool (Bidston) | 1018·4 | -8 | W | 6 | cjp | 48 | 75 | 7 | 5 | - | - | 9 | 9 | 2500 |
| 9 | Harrogate ... | 1014·6 | -20 | W | 3 | c | 48 | 75 | 8 | 3 | - | 7 | 4-6 | 9 | 2500 |
| 10 | Spurn Head ... | 1014·2 | -4 | WNW | 5 | bc | 49 | 85 | 6 | - | 1 | 9 | 0 | 4-6 | - |
| | Catterick ... | 1012·4 | -34 | NW | 1 | c | 49 | 65 | 8 | 4 | 9 | 2 | 2-3 | 9 | 1500 |
| | Tynemouth ... | 1010·2 | -30 | W | 5 | bc | 50 | 75 | 7 | 2 | 6 | - | 4-6 | 4-6 | 2500 |
| 11 | Inchkeith ... | 1007·3 | -32 | W | 8 | c | 50 | 85 | 7 | 8 | 8 | 9 | 4-6 | 9 | 1500 |
| | Leuchars ... | 1007·1 | -30 | WSW | 4 | cq | 50 | 75 | 7 | 4 | 9 | 9 | 7-8 | 9+ | 2500 |
| 12 | Renfrew ... | 1009·7 | -38 | W | 6 | cq | 51 | 75 | 7 | 8 | - | - | 7-8 | 7-8 | 2500 |
| | Eskdalemuir ... | 1012·1 | -24 | WSW | 5 | c | 48 | 65 | 8 | 5 | - | 8 | 7-8 | 9+ | 1500 |
| 13A | Tiree ... | 1008·9 | -36 | WSW | 7 | c | 51 | 75 | 6 | 5 | 7 | - | 4-6 | 10 | 2500 |
| 13B | Stornoway ... | 999·8 | -40 | WSW | 7 | rr | 49 | 95 | 5 | 6 | - | - | 10 | 10 | 800 |
| 15 | Dalwhinnie ... | 1006·8 | -20 | W | 6 | d | 47 | 85 | 6 | 8 | 2 | - | 4-6 | 7-8 | 800 |
| | Aberdeen ... | 1003·1 | -36 | SW'W | 3 | c | 52 | 65 | 8 | 5 | 7 | - | 4-6 | 9+ | 1500 |
| | Wick ... | 998·8 | -54 | WNW | 5 | r₀r₀ | 49 | 95 | 8 | 9 | 2 | - | 7-8 | 10 | 1500 |
| 16 | Lerwick ... | 996·3 | -36 | W'S | 1 | d₀d₀ | 42 | 85 | 7 | 6 | 2 | - | 4-6 | 10 | 1500 |
| 17 | Blacksod Point | 1019·4 | -24 | W | 6 | cq | 51 | 75 | 7 | 5 | - | - | 10 | 10 | <150 |
| 18 | Malin Head ... | 1013·2 | -24 | WSW | 6 | c | 51 | 85 | 6 | 8 | - | - | 9 | 9 | 2500 |
| | Aldergrove ... | 1016·4 | -24 | SW'W | 5 | c | 49 | 75 | 8 | 5 | - | - | 9+ | 9+ | 2500 |
| | Donaghadee ... | 1015·4 | -16 | W | 5 | cq | 51 | 75 | 7 | 5 | 2 | - | 4-6 | 7-8 | 2500 |
| 19 | Birr Castle ... | 1021·5 | -16 | WSW | 3 | c | 51 | 75 | 8 | 5 | - | - | 9+ | 9+ | 2500 |
| 20 | Valentia Obsy. | 1025·7 | -14 | W | 4 | c | 51 | 65 | 8 | 5 | - | - | 9+ | 9+ | 2500 |
| | Roches Point... | 1025·5 | -10 | NW | 3 | c | 50 | 75 | 8 | 5 | - | - | 7-8 | 7-8 | 2500 |

### OBSERVATIONS at 18h. G.M.T. 27th December

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew)... | 1018·3 | -10 | W'S | 2 | c | 48 | 65 | 6 | 5 | - | - | 9 | 9 | 4000 | 1 | * |
| | Croydon ... | 1018·7 | -6 | W'N | 4 | c | 48 | 65 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | S. Farnborough | 1018·7 | -12 | W'S | 2 | c | 47 | 75 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Winchester ... | 1019·3 | -12 | W | 3 | c | 47 | 75 | 8 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Boscombe Down | 1019·9 | -10 | WNW | 4 | c | 46 | 75 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Calshot, S'thmtn | 1020·8 | -14 | W'S | 3 | c | 48 | 65 | 7 | 5 | - | - | 10 | 10 | 2500 | 0 | 1 |
| | Dungeness ... | * | * | W | 2 | c | * | * | 7 | 8 | 2 | * | 4-6 | 9+ | 2500 | * | 0 |
| | Lympne ... | 1018·8 | -6 | W'N | 3 | c | 47 | 75 | 6 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| 2 | Shoeburyness | 1017·8 | -6 | W'S | 3 | c | 48 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 0 | * |
| | Felixstowe ... | 1017·0 | -6 | W | 3 | c | 46 | 75 | 6 | 5 | - | - | 10 | 10 | 4000 | 0 | 2 |
| | Gorleston ... | 1014·4 | -12 | W'N | 3 | bc | 47 | 85 | 6 | 5 | - | - | 4-6 | 4-6 | 2500 | 0 | 2 |
| | Cranwell ... | 1013·9 | -16 | W'S | 4 | bc | 45 | 75 | 6 | 5 | - | - | 2-3 | 2-3 | 2500 | 1 | * |
| 3 | Birmingham ... | 1016·4 | -16 | WSW | 4 | c | 46 | 75 | 8 | 4 | - | - | 7-8 | 7-8 | 2500 | 1 | * |
| | Upper Heyford | 1017·9 | -24 | W | 4 | c | 46 | 75 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * |
| | Leafield ... | 1018·0 | -12 | W | 3 | bc | 44 | 65 | 8 | 5 | - | - | 4-6 | 4-6 | 2500 | 1 | * |
| 4 | Ross-on-Wye ... | 1018·4 | -12 | W'S | 2 | b | 46 | 75 | 8 | 5 | - | - | 1 | 1 | 4000 | 1 | * |
| 5 | Portland Bill... | 1021·0 | -12 | WNW | 3 | c | 50 | 85 | 8 | 4 | - | - | 10 | 10 | 2500 | 0 | 3 |
| | Plymouth ... | 1022·6 | -6 | WNW | 3 | c | 49 | 75 | 6 | 5 | - | - | 10 | 10 | 2500 | 0 | 1 |
| | Falmouth ... | 1023·4 | -2 | W'N | 3 | c | 49 | 85 | 7 | 5 | - | - | 10 | 10 | 4000 | 0 | 0 |
| | Scilly (St. Mary's) | 1024·4 | -12 | NW'W | 4 | c | 50 | 75 | 8 | 5 | - | - | 9+ | 9+ | 4000 | 0 | 2 |
| | Guernsey ... | 1022·8 | -8 | NNW | 2 | o | 50 | 75 | 8 | 5 | - | - | 10 | 10 | 2500 | 0 | 2 |
| 6 | Pembroke ... | 1019·5 | -12 | W | 4 | cq | 50 | 95 | 7 | 3 | 6 | - | 4-6 | 9+ | 1500 | 0 | 2 |
| 7 | Holyhead ... | 1015·9 | -20 | W'N | 6 | cq | 50 | 75 | 7 | 5 | - | - | 9+ | 9+ | 2500 | 1 | 3 |
| | Chester (Sealand) | 1015·8 | -18 | W'N | 4 | c | 50 | 65 | 8 | 5 | - | - | 9+ | 9+ | 4000 | 1 | * |
| 8 | L'pool (Bidston) | 1014·4 | -16 | W | 6 | cq | 48 | 75 | 8 | 8 | - | - | 9 | 9 | 2500 | 0 | * |
| 9 | Harrogate ... | 1007·1 | -50 | W | 9 | cq | 47 | 75 | 7 | - | 4 | 8 | 0 | 7-8 | - | 1 | * |
| 10 | Spurn Head ... | 1010·1 | -6 | W'N | 5 | bc | 47 | 75 | 7 | 4 | - | - | 2-3 | 2-3 | 2500 | 0 | 3 |
| | Catterick ... | 1006·6 | -36 | WNW | 7 | c | 49 | 65 | 7 | - | 9 | - | 0 | 9 | - | 0 | * |
| | Tynemouth ... | 1005·1 | -36 | W | 8 | o | 50 | 65 | 8 | 6 | 6 | - | 10 | 10 | 1500 | 0 | 3 |
| 11 | Inchkeith ... | 1002·4 | -38 | W | 9 | c | 49 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 0 | 4 |
| | Leuchars ... | 1000·1 | -46 | WSW | 7 | cq | 50 | 75 | 8 | 5 | 7 | - | 9 | 9+ | 2500 | 1 | * |
| 12 | Renfrew ... | 1004·6 | -32 | WSW | 7 | cd | 49 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 1 | * |
| | Eskdalemuir ... | 1005·9 | -44 | WSW | 7 | cr₀ | 46 | 75 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| 13A | Tiree ... | 1002·1 | -40 | WSW | 8 | dd₀ | 50 | 95 | 6 | 6 | 2 | - | 9+ | 10 | 800 | 1 | 4 |
| 13B | Stornoway ... | 993·7 | -20 | WNW | 7 | c/r₀ | 48 | 95 | 7 | 6 | - | - | 10 | 10 | 800 | 2 | 5 |
| 15 | Dalwhinnie ... | 1000·7 | -22 | WSW | 9 | cr₀ | 47 | 85 | 6 | 9 | - | - | 7-8 | 7-8 | 800 | 1 | |
| | Aberdeen ... | 994·7 | -48 | SW | 4 | bc | 51 | 65 | 8 | 5 | - | - | 4-6 | 4-6 | 1500 | 1 | 1 |
| | Wick ... | 989·7 | -4 | NW | 5 | rr | 48 | 95 | 7 | 6 | 2 | - | 7-8 | 10 | 1500 | 1 | 3 |
| 16 | Lerwick ... | 982·0 | -32 | WSW | 4 | c/r | 46 | 85 | 7 | 9 | - | - | 9+ | 9+ | 1500 | 1 | * |
| 17 | Blacksod Point | 1014·8 | -26 | W | 7 | cu | 52 | 85 | 7 | - | 2 | - | 0 | 10 | - | 0 | 6 |
| 18 | Malin Head ... | 1007·6 | -32 | WSW | 7 | cd₀ | 50 | 95 | 5 | 5 | - | - | 10 | 10 | 800 | 0 | 4 |
| | Aldergrove ... | 1011·1 | -34 | SW'W | 5 | c | 48 | 75 | 8 | 5 | - | - | 9+ | 9+ | 1500 | 1 | * |
| | Donaghadee ... | 1010·3 | -26 | W'S | 6 | cq | 50 | 75 | 7 | 9 | 2 | - | 4-6 | 7-8 | 2500 | 0 | 3 |
| 19 | Birr Castle ... | 1018·2 | -10 | WSW | 3 | c | 49 | 75 | 7 | - | 7 | - | 0 | 9+ | - | 0 | * |
| 20 | Valentia Obsy. | 1023·4 | -10 | WSW | 6 | cq | 50 | 75 | 8 | 5 | - | - | 10 | 10 | 2500 | 1 | 3 |
| | Roches Point... | 1021·9 | -12 | NW | 3 | c | 48 | 75 | 8 | 5 | - | - | 7-8 | 7-8 | 2500 | 0 | 2 |

### PAST 24 HOURS.

| District | Stations | Weather 7h.–13h. 27th (37) | Weather 13h.–18h. 27th (38) | Weather 18h. 27th to 1h. 28th (39) | Weather 1h.–7h. 28th (40) |
|---|---|---|---|---|---|
| 1 | London (Kew)... | bz₀cz₀ | cz₀ | bcz₀ | b |
| | Croydon ... | b,cm₀ | cz₀ | bccz₀ | cm₀ |
| | S. Farnborough | bcwbcc | c | cb | c |
| | Winchester ... | bcc | c | cbc | bccr₀ |
| | Boscombe Down | b,c | c | c | coid₀ |
| | Calshot, S'thmtn | bcc | c | cbcc | c |
| | Dungeness ... | o | o | * | o |
| | Lympne ... | bcc | cz₀ | c | c |
| 2 | Shoeburyness | bccm₀ | cm,bcm₀ | cm₀c | c |
| | Felixstowe ... | c | cbccz | czbcc | cbc |
| | Gorleston ... | bc | bco | bccq | cq |
| | Cranwell ... | bcm₀ | b,cz₀ | bz₀c | cm₀r |
| 3 | Birmingham ... | c | c | cbc | bco |
| | Upper Heyford | bxbcc | c | cbc | bcc |
| | Leafield ... | c | c | bc | c |
| 4 | Ross-on-Wye ... | c | cb | bccq | cqc |
| 5 | Portland Bill... | c | c | c | c |
| | Plymouth ... | cm₀ | cm₀ | cm₀ | cm₀ |
| | Falmouth ... | c | c | cq | cq |
| | Scilly (St. Mary's) | c | c | cq | cq |
| | Guernsey ... | c | co | ov | o |
| 6 | Pembroke ... | c | cq | c | c/ |
| 7 | Holyhead ... | c | cm₀cq | cq | cq/m₀ |
| | Chester (Sealand) | c | c | c | cdd |
| 8 | L'pool (Bidston) | cq | cq | cqcq | oqr₀ |
| 9 | Harrogate ... | c | cq/ | cqrr | cb |
| 10 | Spurn Head ... | bc | bc | cq | cqpr |
| | Catterick ... | c | c | cq | qbc |
| | Tynemouth ... | c,bcq | bcq / | oqir₀ | cbcq |
| 11 | Inchkeith ... | c | c/ | prc/ | cbc/ |
| | Leuchars ... | cqojp | cjpcq | cqbq/ | b,cprs₀ |
| 12 | Renfrew ... | cd₀cq | coqd | cdrrq | crprs |
| | Eskdalemuir ... | ccd₀c | cir₀c | cir₀ | orcprsbc |
| 13A | Tiree ... | c | ccd,m₀/ | cidr | PHrq |
| 13B | Stornoway ... | orr | orr | cPRhq | cprhq |
| 15 | Dalwhinnie ... | d | cr/ | * | s |
| | Aberdeen ... | c | cbc | bccq | cqr₀s₀ |
| | Wick ... | cr₀r | cr₀rr | crrqcprs | PRRqcprs |
| 16 | Lerwick ... | cd₀d₀ | cd,d₀rr | ophrsq | cpbsq |
| 17 | Blacksod Point | cq | cq | cq | cq/ |
| 18 | Malin Head ... | cz₀z₀ | cid₀m₀m₀ | ocprqpr/ | ciprbc |
| | Aldergrove ... | c | c | cr | cp₀ |
| | Donaghadee ... | cq | oq | circq | cq |
| 19 | Birr Castle ... | c | c | cid₀ | cpr |
| 20 | Valentia Obsy. | c | cq | c | c |
| | Roches Point... | c | c | c | c |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,
R, heavy rain. r₀, slight rain. rr, continuous rain.

<, less than (for cloud height).
⊕, Solar halo. ◎, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

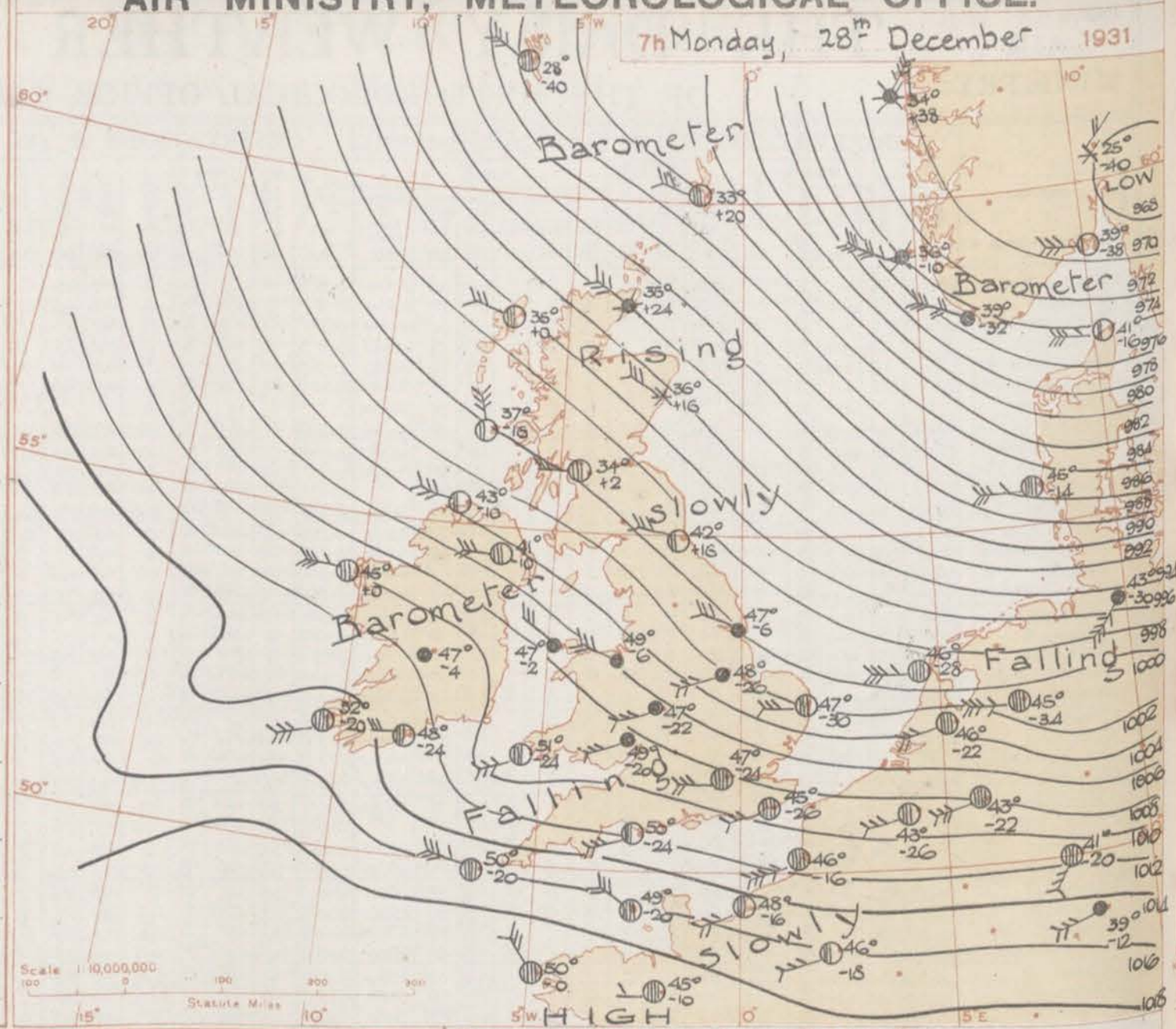
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

# AIR MINISTRY, METEOROLOGICAL OFFICE.

## REPORTS from HEALTH RESORTS for 27th December 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 26th to 9h. 27th. | Temperature. Max. 9h.—17h. 27th. | Rainfall. Night. 17h. 26th to 9h. 27th. | Rainfall. Day. 9h.—17h. 27th. | Sunshine. Sunrise to Sunset. 27th. |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | cbco | o | 36 | 49 | - | - | 0·8 |
| | Bournemouth | bco | o | 45 | 49 | - | - | 0·3 |
| | Ventnor ... | odob | bou | 45 | 51 | 0·3 | - | 2·1 |
| | Southsea ... | bbc | bco | 44 | 50 | - | - | 2·3 |
| | Bognor Regis | cobc | op | 43 | 50 | - | - | 0·6 |
| | Littlehampton | bc | bcc | 42 | 50 | - | - | 1·2 |
| | Worthing ... | cbc | co | 44 | 51 | Trace | - | 1·3 |
| | Brighton ... | cbcc | c | 44 | 50 | - | - | 1·5 |
| | Eastbourne† | cbcc | co | 46 | 51 | - | - | 1·1 |
| | Hastings† ... | cbcc | co | 44 | 50 | 0·2 | - | 1·2 |
| | Folkestone ... | cbc | bcco | 42 | 50 | - | - | 0·4 |
| | Dover... ... | m,cbco | co | 43 | 51 | - | - | 0·0 |
| | Deal ... ... | bcc | bco | 44 | 52 | - | - | 0·7 |
| | Ramsgate ... | c | c | 44 | 52 | - | - | 0·0 |
| | Margate ... | cbc | c | 46 | 49 | - | - | 0·1 |
| 2 | Southend ... | bc | mo | 43 | 48 | - | - | 1·5 |
| | Maldon ... | bco | c | 45 | 49 | - | - | 1·5 |
| | Clacton-on-Sea | bcbc | bc | 41 | 48 | - | - | 0·3 |
| | Dovercourt ... | bo | c | 42 | 48 | - | - | 0·5 |
| | Lowestoft ... | bbco | bbc | 41 | 47 | Trace | - | 1·6 |
| | Skegness ... | obc | bcm,o | 41 | 50 | Trace | - | 4·3 |
| | Mablethorpe | wbc | bcom, | 43 | 51 | - | - | 4·7 |
| | Cleethorpes ... | cb | b | 45 | 51 | Trace | - | 5·0 |
| 3 | Leamington S. | co | oc | 42 | 51 | - | - | 0·7 |
| 4 | Cheltenham† | om, | oc | 43 | 50 | Trace | - | 0·0 |
| 5 | Bath ... ... | c | c | 45 | 50 | Trace | - | 0·0 |
| | Weymouth ... | c | c | 46 | 51 | - | - | 0·0 |
| | Jersey ... | cbc | c | 48 | 52 | 1 | - | 0·3 |
| | Torquay ... | p,cw | co | 43 | 51 | Trace | - | 0·0 |
| | Penzance ... | c | c | 48 | 51 | 2 | - | 0·0 |
| | St. Ives ... | o | o | 48 | 51 | 0·5 | - | 0·0 |
| | Bude ... ... | o | c | 49 | 51 | 1 | - | 0·0 |
| | Ilfracombe ... | o | o | 50 | 51 | 0·6 | - | 0·0 |
| 6 | Aberystwyth | c | c | 48 | 49 | - | - | 0·0 |
| 7 | Llandudno ... | c | c | 49 | 50 | Trace | - | 0·0 |
| | Colwyn Bay... | o | oc | 49 | 51 | - | - | 0·0 |
| | Rhyl ... ... | c | c | 47 | 52 | - | - | 0·0 |
| 8 | Wallasey ... | co | c | 47 | 49 | - | - | 0·0 |
| | Southport‖ ... | ocbc | co | 48 | 49 | - | - | 0·9 |
| | Blackpool ... | c | c | 48 | 49 | - | - | 0·9 |
| | Morecambe ... | cb | bbc | 46 | 49 | - | - | 0·3 |
| 9 | Ilkley... ... | c | c | 47 | 51 | - | - | 1·4 |
| 10 | Berwick-on-T. | c | c | 50 | 52 | - | - | 0·2 |
| 11 | Dunbar ... | cm, | or, | 49 | 51 | - | Trace | 0·0 |
| 12 | Douglas ... | cbc | cbc | 48 | 50 | - | - | 0·7 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ⁼ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 28th Dec., 1931. |
|---|---|
| 1. S.E. England | Fresh to strong squally westerly winds; mainly cloudy with occasional rain; showery later; becoming rather cold. |
| 2. E. England | |
| 3. E. Midlands | Strong squally northwest winds, showers of rain, hail or sleet; bright intervals; rather cold. |
| 4. W. Midlands | |
| 5. S.W. England | Fresh to strong westerly winds; mainly cloudy, occasional rain; moderate temperature. |
| 6. South Wales | |
| 7. North Wales | Strong squally northwest to west winds, reaching gale force at times; showers of snow, sleet or hail; bright intervals; cold by day, frost at night. |
| 8. N.W. England | |
| 9. N. Midlands | |
| 10. N.E. England | |
| 11. S.E. Scotland | |
| 12. S.W. Scotland & Isle of Man | |
| 13. A. W. Scotld. B. N.W. Scotland | Strong squally northwesterly winds, reaching gale force at times; showers of snow or sleet; bright intervals; cold by day, frost at night. |
| 14. Mid-Scotland | |
| 15. N.E. Scotland | |
| 16. Orkneys and Shetlands | |
| 17. N.W. Ireland | As 7 - 12. |
| 18. N.E. Ireland | |
| 19. S.E. Ireland | As 5 - 6. |
| 20. S.W. Ireland | |

### GENERAL INFERENCE.

Pressure continues high to the west and southwest of the British Isles. A deep depression centred over Southern Norway is moving east or southeast. Squally northwesterly winds reaching gale force at times will occur in Scotland and Northern England with occasional snow or sleet and a low temperature. Elsewhere weather will be mainly cloudy with occasional rain or showers and a falling temperature.

### FURTHER OUTLOOK.

Cold and showery.

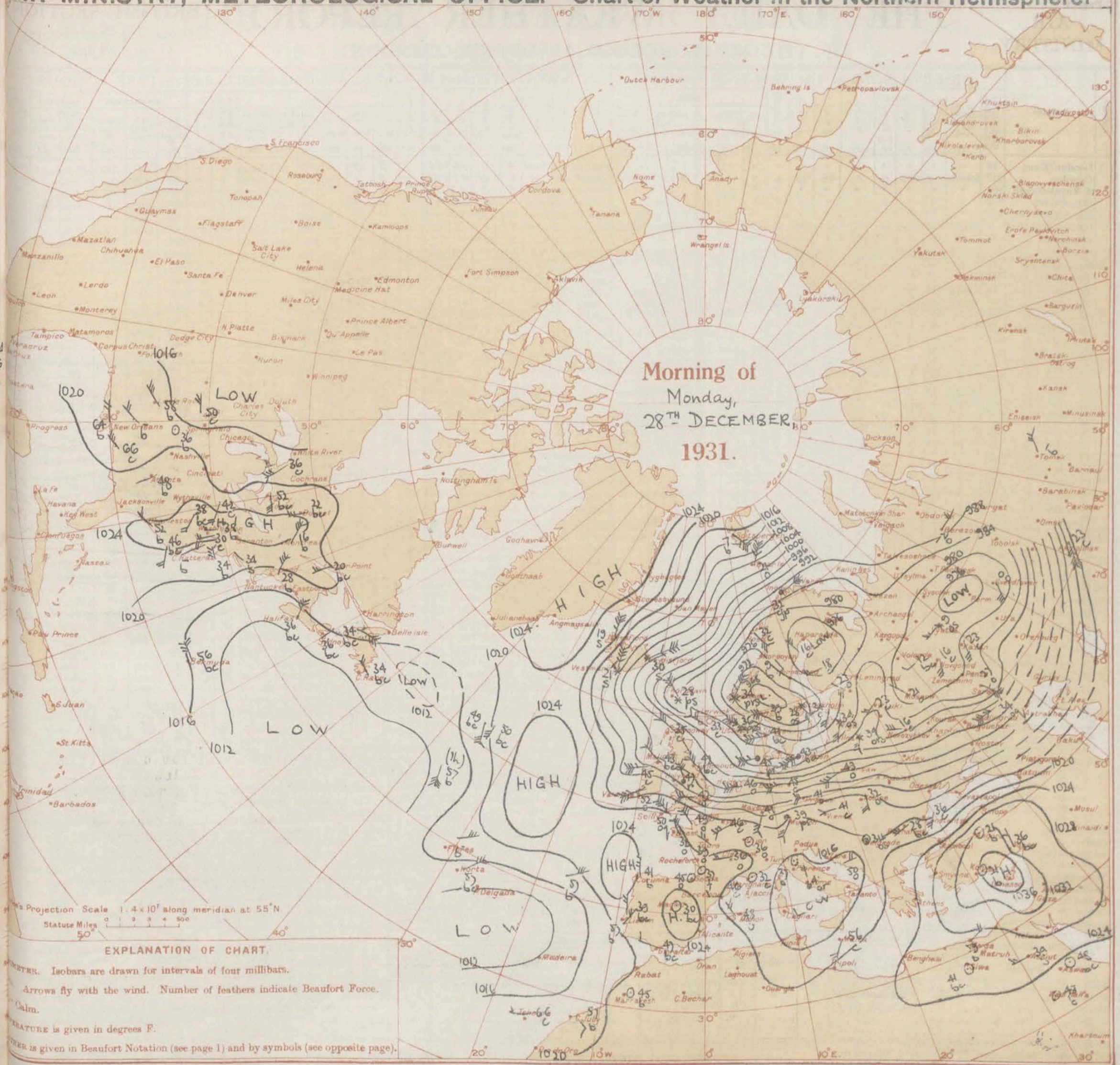
Times of issue of Gale Warnings.

South cone. 1420 on 26th in districts 11, 13, 15 and 16; 1440 on 27th in districts 2, 7, 8, 10, 12, 17 and 18.

Forecasts issued at 1000 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



Page 4.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 28th December 1931.

No. 25.603

OBSERVATIONS at 1 hr. G.M.T. 28th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew)... | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 217 | 1014.6 | -14 | W'S | 4 | c | 45 | 75 | 6 | 7 | - | - | 9 | 9 | 4000 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester ... | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot, (S'thmtn) | 8 | 1017.0 | -22 | WSW | 4 | c | 47 | 75 | 8 | 5 | - | - | 9+ | 9+ | 2500 |
| | Dungeness ... | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne ... | 346 | 1014.5 | -20 | W | 4 | c | 43 | 85 | 7 | 5 | - | - | 9+ | 9+ | 4000 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston ... | 14 | 1009.0 | -24 | W | 3 | c | 45 | 85 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Cranwell ... | 240 | 1007.4 | -28 | WSW | 5 | c | 45 | 85 | 6 | 5 | - | 8 | 4-6 | 9 | 4000 |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield ... | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye ... | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill.... | 32 | 1016.7 | -20 | W | 5 | c | 50 | 85 | 8 | 4 | 2 | - | 7.8 | 10 | 2500 |
| | Plymouth ... | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth ... | 200 | 1020.0 | -14 | W | 4 | q | 48 | 85 | 8 | 5 | - | - | 9 | 9 | 4000 |
| | Scilly (St.Mary's) | 163 | 1021.4 | -10 | NWW | 6 | q | 48 | 85 | 8 | 5 | - | - | 9+ | 9+ | 4000 |
| | Guernsey ... | 175 | 1020.5 | -16 | NNW | 4 | o | 50 | 75 | 9 | 5 | - | - | 10 | 10 | 4000 |
| 6 | Pembroke ... | 142 | 1015.0 | -20 | WSW | 4 | c | 50 | 95 55 | 7 | 5 | 6 | - | 7.8 | 9+ | 2500 |
| 7 | Holyhead ... | 26 | 1010.0 | -26 | WSW | 6 | q | 50 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate ... | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head ... | 29 | 1003.1 | -14 | W'N | 7 | q | 47 | 85 | 7 | 5 | 1 | - | 4-6 | 9+ | 4000 |
| | Catterick ... | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth ... | 67 | 998.1 | -40 | W | 7 | c | 52 | 85 | 7 | 6 | - | - | 7.8 | 7.8 | 1500 |
| 11 | Inchkeith ... | 190 | 995.4 | -28 | W | 9 | c | 47 | 85 | 8 | 2 | 3 | - | 4.6 | 9 | 4000 |
| | Leuchars ... | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew ... | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir .. | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree ... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway ... | 34 | 992.5 | -16 | WNW | 7 | c | 42 | 75 | 8 | 8 | - | - | 7.8 | 7.8 | 2500 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen ... | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick ... | 81 | 986.6 | -16 | W | 6 | prs | 36 | 85 | 8 | 9 | 7 | - | 7.8 | 9 | 1500 |
| 16 | Lerwick ... | 54 | 978.5 | -16 | W'N | 8 | rs | 34 | 95 | 6 | 6 | - | - | 10 | 10 | 800 |
| 17 | Blacksod Point | 18 | 1011.1 | -12 | W | 7 | rr | 50 | 95 | 7 | 6 | - | - | 10 | 10 | <150 |
| 18 | Malin Head ... | 52 | 1004.0 | -12 | WNW | 7 | pr | 46 | 85 | 6 | 9 | 1 | - | 7.8 | 10 | 1500 |
| | Aldergrove ... | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee ... | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1018.5 | -26 | W'N | 6 | q | 51 | 95 | 8 | 8 | - | - | 10 | 10 | 1500 |
| | Roches Point... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

OBSERVATIONS at 7 hr. G.M.T. 28th December — PAST 24 HOURS.

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F (32) | Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 27th Hrs. (36) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1008.6 | -26 | SWW | 4 | c | 48 | 86 | 7 | 5 | 2 | - | 7.8 | 10 | 2600 | 1 | * | 49 | 45 | 39 | - | - | 2.0 |
| Croydon | 1009.4 | -24 | W | 5 | c | 47 | 85 | 6 | 5 | - | - | 10 | 10 | 1500 | 1 | * | 49 | 44 | 41 | - | - | 2.6 |
| S. Farnborough | 1009.4 | -22 | WSW | 5 | c | 47 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * | 49 | 41 | 32 | - | - | 1.8 |
| Winchester | 1010.2 | -24 | WSW | 4 | ir. | 46 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | * | 51 | 41 | 38 | - | Tr. | 1.5 |
| Boscombe Down | 1010.5 | -26 | WNW | 5 | id. | 47 | 95 | 7 | 6 | - | - | 10 | 10 | 800 | 1 | * | 48 | 42 | 41 | - | Tr. | * |
| Calshot, (S'thmtn) | 1012.5 | -24 | WSW | 4 | c | 48 | 85 | 8 | 5 | - | - | 10 | 10 | 2600 | 0 | 2 | 52 | 44 | 38 | - | - | 2.2 |
| Dungeness | * | * | SW | 4 | c | * | * | 7 | 8 | 2 | * | 4.6 | 9+ | 2600 | * | 3 | 51 | 45 | * | - | - | * |
| Lympne | 1009.4 | -26 | W'S | 4 | c | 45 | 86 | 8 | 5 | - | - | 10 | 10 | 1500 | 1 | * | 49 | 40 | 37 | - | - | 1.4 |
| Shoeburyness | 1006.9 | -30 | W'S | 5 | c | 47 | 85 | 7 | 6 | 3● | - | 4-6 | 9+ | 2500 | 0 | * | 50 | 41 | 39 | - | - | 1.3 |
| Felixstowe | 1006.0 | -20 | WSW | 5 | c | 47 | 86 | 7 | 5 | - | - | 9 | 9 | 4000 | 0 | 4 | 48 | 43 | 37 | - | - | 0.7 |
| Gorleston | 1002.7 | -30 | W | 4 | c | 47 | 85 | 7 | 8 | - | - | 9+ | 9+ | 2500 | 0 | 3 | 48 | 45 | 42 | - | - | 2.7 |
| Cranwell | 1002.6 | -26 | W'S | 5 | ir | 48 | 95 | 6 | 6 | 2 | - | 9 | 10 | 800 | 1 | * | 50 | 45 | 42 | - | 1 | 4.5 |
| Birmingham | 1005.4 | -22 | WSW | 4 | ir. | 47 | 95 | 7 | 6 | - | - | 10 | 10 | 800 | 1 | * | 49 | 45 | 42 | - | Tr. | 0.5 |
| Upper Heyford | 1007.4 | -28 | W | 6 | c | 47 | 85 | 8 | 5 | - | - | 9+ | 9+ | 800 | 0 | * | 48 | 42 | 36 | - | - | * |
| Leafield | 1007.1 | -30 | W | 5 | c | 46 | 85 | 8 | 5 | - | 7 | 2.3 | 7.8 | 2500 | 1 | * | 47 | 41 | 34 | - | - | 0.0 |
| Ross-on-Wye | 1008.5 | -20 | WSW | 4 | id. | 49 | 85 | 8 | 5 | - | - | 10 | 10 | 2500 | 1 | * | 51 0 | 45 | 40 | - | - | 0.0 |
| Portland Bill | 1012.4 | -28 | W'S | 5 | c | 50 | 86 | 8 | 4 | - | - | 10 | 10 | 2500 | 0 | 4 | 51 | 49 | * | - | - | * |
| Plymouth | 1016.3 | -20 | W'S | 6 | c | 49 | 85 | 6 | 5 | - | - | 10 | 10 | 800 | 0 | 3 | 50 | 48 | 45 | - | - | 0.0 |
| Falmouth | 1016.1 | -6 | W | 4 | q | 49 | 86 | 8 | 5 | - | - | 10 | 10 | 4000 | 0 | 2 | 50 | 48 | * | - | - | 0.0 |
| Scilly (St.Mary's) | 1017.4 | -20 | WNW | 7 | q | 50 | 86 | 8 | 5 | - | - | 10 | 10 | 4000 | 0 | 4 | 50 | 47 | * | - | - | 0.0 |
| Guernsey | 1016.8 | -20 | NW | 6 | o | 49 | 85 | 9 | 5 | - | - | 10 | 10 | 2500 | 0 | 4 | 51 | 49 | 45 | - | - | 0.0 |
| Pembroke | 1009.3 | -24 | W'S | 6 | c | 51 | 95 | 6 | 5 | 6 | - | 7.8 | 10 | 2500 | 0 | 4 | 52 | 49 | * | - | - | 0.0 |
| Holyhead | 1007.0 | -2 | NW | 6 | ir. | 47 | 95 | 5 | 6 | - | - | 10 | 10 | 800 | 1 | 4 | 51 | 47 | 44 | - | 2 | 0.0 |
| Chester (Sealand) | 1004.8 | -6 | WNW | 5 | dr | 49 | 85 | 7 | 6 | - | - | 10 | 10 | 800 | 1 | * | 51 | 49 | 45 | - | 0.5 | 0.1 |
| L'pool (Bidston) | 1004.1 | +2 | WNW | 6 | r.r. | 45 | 95 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | * | 49 | 45 | 44 | - | 1 | 0.0 |
| Harrogate | 1001.2 | 0 | WNW | 4 | b | 42 | 85 | 7 | - | 3 | 9 | 0 | 1 | - | 1 | * | 49 | 42 | 38 | - | 3 | 1.4 |
| Spurn Head | 999.9 | -6 | W'N | 4 | pr | 47 | 95 | 7 | 3 | 2 | - | 4.6 | 9+ | 4000 | 1 | 4 | 49 | 46 | * | - | 0.3 | 4.5 |
| Catterick | 1000.3 | +10 | NW | 6 | q | 43 | 75 | 7 | 5 | - | - | 2.3 | 2.3 | 4000 | 0 | * | 50 | 43 | 38 | - | - | * |
| Tynemouth | 998.6 | +16 | WNW | 4 | bc | 42 | 65 | 8 | 2 | - | - | 4.6 | 4.6 | 2500 | 1 | 3 | 50 | 42 | 37 | - | 1 | * |
| Inchkeith | 997.8 | +20 | W | 5 | bc | 37 | 86 | 8 | 7 | 3 | - | 2.3 | 4.6 | 4000 | 0 | 3 | 52 | 37 | 35 | - | 0.3 | 0.0 |
| Leuchars | 997.4 | +20 | WSW | 3 | prs | 37 | 86 | 8 | 4 | 6 | - | 7.8 | 9+ | 4000 | 1 | * | 52 | 36 | 32 | - | Tr. | 0.0 |
| Renfrew | 1000.3 | +2 | W | 3 | c/ps | 34 | 95 | 7 | 8 | - | - | 9 | 9 | 2500 | 1 | * | 51 | 34 | 32 | 0.1 | 4 | 0.8 |
| Eskdalemuir | 1000.0 | 0 | W'N | 5 | bc/ps | 35 | 96 | 7 | 3 | - | 3 | 4.6 | 4.6 | 1500 | 1 | * | 49 | 34 | 32 | 0.4 | 4 | 0.0 |
| Tiree | 999.2 | -16 | NNW | 6 | bc/pshr | 37 | 95 | 8 | 8 | - | 3 | 2.3 | 4.6 | 2500 | 1 | 4 | 51 | 36 | 34 | 0.2 | 3 | 0.0 |
| Stornoway | 996.5 | 0 | WNW | 4 | c | 36 | 75 | 8 | 8 | 6 | - | 4.6 | 9 | 2500 | 1 | 3 | 52 | 32 | * | 13 | 5 | 0.0 |
| Dalwhinnie | 997.6 | +2 | W | 1 | c | 31 | 85 | 8 | 4 | 2 | - | 7.8 | 10 | 1600 | 6 | * | 49 | 29 | 21 | 2 | 1 | 0.0 |
| Aberdeen | 994.7 | +16 | NW | 4 | is | 36 | 75 | 6 | 6 | - | - | 9+ | 9+ | 800 | 6 | 2 | 54 | 34 | 31 | - | 0.2 | 0.0 |
| Wick | 991.4 | +24 | NW | 6 | prs. | 35 | 75 | 8 | 9 | 8 | - | 4.6 | 7.8 | 1500 | 6 | 3 | 49 | 32 | * | 10 | 4 | * |
| Lerwick | 985.5 | +20 | W'N | 4 | c | 33 | 75 | 7 | 8 | - | - | 7.8 | 7.8 | 1600 | 6 | * | 46 | 32 | * | 4 | 4 | 0.0 |
| Blacksod Point | 1010.6 | 0 | W | 7 | q | 45 | 75 | 8 | 3 | - | - | 7.8 | 7.8 | <150 | 0 | 4 | 53 | 44 | * | - | 3 | * |
| Malin Head | 1002.7 | -10 | NWW | 6 | bcjp | 43 | 55 | 7 | 3 | - | - | 2.3 | 2.3 | 1500 | 0 | 5 | 51 | 40 | * | Tr. | 1 | 0.1 |
| Aldergrove | 1004.8 | -10 | W | 5 | c/pr | 41 | 75 | 8 | 5 | - | - | 7.8 | 7.8 | 2500 | 1 | * | 49 | 41 | 36 | - | 2 | 0.1 |
| Donaghadee | 1003.9 | ? | WNW | 5 | q | 43 | 75 | 7 | 8 | 2 | - | 4.6 | 7.8 | 2600 | 0 | 3 | 52 | 42 | * | - | 0.4 | * |
| Birr Castle | 1009.2 | -4 | ESE | 2 | pr | 47 | 95 | 7 | 6 | 2 | - | 4.6 | 10 | 1500 | 1 | * | 51 | 47 | 45 | - | 3 | 0.3 |
| Valentia Obsy.† | 1014.5 | -20 | WSW | 6 | c | 52 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 | 1 | * | 51 | 50 | 48 | - | - | 0.0 |
| Roches Point | 1012.4 | -24 | W | 3 | c | 48 | 85 | 8 | 3 | - | - | 7.8 | 7.8 | 1500 | 0 | 4 | 51 | 45 | * | - | - | * |

**LONDON OBSERVATIONS.**

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations except Greenwich rainfall, 9h—18h.

| Station | Height above M.S.L. in feet | Weather Morning | Weather Afternoon | Weather Night | Temperature Day Max. °F. | Temperature Night Min. °F. | Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset, hrs. Yesterday | Humidity 15h. G.M.T. % Yesterday | Humidity 9h. G.M.T. % To-day | Visibility 9h. To-day |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 24 hrs. ended 9h. | | | | | | | | | | | |
| Kew ... | 18 | bz0cz0 | cz0 | bcz0b | 49 | 45 | 39 | - | - | 2.0 | * | * | 5 |
| Croydon ... | 217 | b,cm. | cz0 | bcczm | 49 | 44 | 41 | - | - | 2.6 | * | * | 6 |
| Greenwich (Royal Observatory) ... | 149 | bcm | cm | c | 49 | 44 | 35 | - | - | 10.0 | 72 | 84 | 6 |
| City (Bunhill Row) ... | — | * | * | * | * | * | * | * | * | 0.9 | * | * | * |
| Westminster (St. James' Park) ... | 27 | * | * | * | 48 | 44 | 37 | - | - | 1.1 | 71. | 85 | * |
| Regents Pk. (Botanic Gardens) ... | 168 | * | * | * | * | * | * | * | * | * | * | * | * |
| Camden Square ... | 110 | bc | c | * | 49 | 45 | 39 | — | — | * | * | 84 | * |
| Kensington ... | 80 | bcoc | oc | * | 49 | 45 | 37 | - | - | 1.2 | At 18h. 70 | 87 | * |
| Hampstead Observatory ... | 450 | bc | bc | c | 47 | 40 | 35 | - | Tr. | 0.9 | * | 85 | * |

**Atmospheric Pollution.** Milligrams of Solid Impurity per cubic metre. 24 hrs. ended 7h. G.M.T. 28th

| | Max. | Time. | Min. | Time. |
|---|---|---|---|---|
| South Kensington. | 0.8 | 10h 27m | Nil | 1-6h 28m |
| Kew Observatory. | 0.2 | 14h 27m | <0.1 | 4h 28m |

**FOREIGN OBSERVATIONS.**

| Stations | 18h. G.M.T. 27th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 28th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris ... | 1020.7 | NW | 2 | o | 46 | 1013.9 | WSW | 4 | c | 46 | 48 | 43 | 0.1 | - |
| Brussels ... | 1017.0 | WSW | 1 | o | 43 | 1009.4 | WSW | 4 | c | 43 | 46 | 43 | - | - |
| Berlin ... | 1008.6 | WSW | 4 | o | 46 | 999.6 | SWW | 7 | q | 45 | 48 | 43 | - | Tr. |
| Zürich ... | | | | | | | | | | | | | | |
| Rome ... | | | | | | | | | | | | | | |

## EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13-18 | 9 | 47-54 |
| 1 | 1-3 | 5 | 19-24 | 10 | 55-63 |
| 2 | 4-7 | 6 | 25-31 | 11 | 64-75 |
| 3 | 8-12 | 7 | 32-38 | 12 | 75 |
| | | 8 | 39-46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | Objects not visible at |
|---|---|
| 0 Dense fog | 55 yards. |
| 1 Thick fog | 220 ,, |
| 2 Fog | 550 ,, |
| 3 Moderate fog | 1,100 ,, |
| 4 Mist or haze | 1¼ miles. |
| 5 Poor visibility | 2½ ,, |
| 6 Moderate ,, | 6¼ ,, |
| 7 Good ,, | 12½ ,, |
| 8 Very good ,, | 31 ,, |
| 9 Excellent ,, | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | |
|---|---|
| 0 Calm. | 5 Very rough. |
| 1 Smooth. | 6 High. |
| 2 Slight. | 7 Very high. |
| 3 Moderate. | 8 Precipitous. |
| 4 Rough. | 9 Confused. |

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2. G. C. Simpson, C.B., D.Sc., F.R.S., Director.

†1 hr observations are from Valentia W/T station.

Page 1.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 29th December 1931.

No. 25604

### OBSERVATIONS at 13h. G.M.T. 28th December

| District | Stations (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew)... | 1003.3 | -34 | W | 4 | r₀r₀ | 50 | 85 | 6 | 6 | 2 | - | 9 | 10 | 1500 |
| | Croydon ... | 1004.0 | -34 | WNW | 5 | r₀r₀ | 51 | 85 | 6 | 6 | 2 | - | 9 | 10 | 800 |
| | S. Farnborough | 1003.8 | -34 | W'S | 4 | ir₀ | 51 | 85 | 8 | 5 | 7 | - | 7-8 | 9+ | 800 |
| | Winchester ... | 1004.8 | -38 | W'S | 6 | ir₀ | 49 | 95 | 6 | 6 | 2 | - | 7-8 | 9+ | 800 |
| | Boscombe Down | 1005.7 | -30 | WNW | 5 | c | 49 | 95 | 8 | 6 | 2 | - | 4-6 | 10 | 450 |
| | Calshot, S'thmtn | 1007.1 | -34 | SW'W | 5 | d₀d₀ | 50 | 95 | 6 | 5 | - | - | 10 | 10 | 1500 |
| | Dungeness ... | * | * | SW | 5 | c | * | * | 7 | 8 | 2 | x | 7-8 | 9+ | 2500 |
| | Lympne ... | 1004.3 | -38 | WSW | 5 | o | 48 | 95 | 7 | 5 | - | - | 10 | 10 | 800 |
| 2 | Shoeburyness | 1002.7 | -20 | WNW | 4 | rr | 49 | 95 | 5 | 6 | 2 | - | 9 | 10 | 450 |
| | Felixstowe ... | 1003.0 | -14 | NNW | 4 | ir₀ | 47 | 95 | 7 | 6 | - | - | 9+ | 9+ | 800 |
| | Gorleston ... | 1000.3 | -16 | WNW | 4 | c | 45 | 85 | 7 | 6 | 6 | 2 | 1 | 7-8 | 2500 |
| | Cranwell ... | 1000.4 | -22 | W'N | 4 | c | 43 | 75 | 6 | 5 | 3 | 4 | 4-6 | 7-8 | 2500 |
| 3 | Birmingham ... | 1002.0 | -16 | WNW | 6 | c | 45 | 65 | 7 | 6 | - | - | 9 | 9 | 800 |
| | Upper Heyford | 1003.5 | -16 | WNW | 5 | pr | 47 | 75 | 8 | 9 | - | - | 9+ | 9+ | 800 |
| | Leafield ... | 1003.5 | -8 | NW'W | 4 | pr | 44 | 95 | 8 | 9 | - | - | 7-8 | 7-8 | 800 |
| 4 | Ross-on-Wye ... | 1005.1 | -10 | W'N | 4 | ir₀ | 46 | 85 | 7 | 6 | - | 1 | 9 | 9+ | 2500 |
| 5 | Portland Bill... | 1006.4 | -34 | SW | 6 | c | 51 | 85 | 7 | 4 | 2 | - | 7-8 | 10 | 2500 |
| | Plymouth ... | 1010.8 | -30 | W | 6 | r₀r₀ | 51 | 95 | 6 | 6 | - | - | 10 | 10 | 450 |
| | Falmouth ... | 1011.5 | -12 | W | 6 | ir₀ | 51 | 95 | 7 | 6 | 2 | - | 7-8 | 10 | 2500 |
| | Scilly (St. Mary's) | 1012.9 | -24 | W | 7 | c | 51 | 95 | 7 | 5 | 1 | - | 7-8 | 9+ | 4000 |
| | Guernsey ... | 1012.6 | -34 | WNW | 6 | o/d₀ | 51 | 85 | 7 | 5 | - | - | 10 | 10 | 1500 |
| 6 | Pembroke ... | 1007.6 | -14 | WNW | 4 | c | 50 | 95 | 7 | 8 | 6s | - | 4-6 | 9 | 2500 |
| 7 | Holyhead ... | 1004.1 | -26 | WNW | 8 | pr | 45 | 85 | 7 | 3 | - | 3 | 9 | 9+ | 1500 |
| | Chester (Sealand) | 1002.5 | -20 | WNW | 6 | c/pr | 44 | 75 | 8 | 9 | - | 1 | 4-6 | 9 | 800 |
| 8 | L'pool (Bidston) | 1000.8 | -24 | WNW | 7 | c/p | 41 | 75 | 8 | 9 | - | 4 | 4-6 | 7-8 | 1500 |
| 9 | Harrogate ... | 998.6 | -14 | SW | 5 | c/ps | 36 | 95 | 7 | 3 | - | - | 7-8 | 7-8 | 2500 |
| 10 | Spurn Head ... | 997.5 | -10 | NW'W | 6 | pr | 43 | 75 | 7 | 3 | 3 | 1 | 2-3 | 9 | 4000 |
| | Catterick ... | 997.2 | -30 | WNW | 5 | bc/prs | 40 | 75 | 8 | 8 | - | - | 4-6 | 4-6 | 2500 |
| | Tynemouth ... | 996.7 | -14 | W | 4 | ph(r) | 40 | 75 | 7 | 9 | - | - | 4-6 | 4-6 | 1500 |
| 11 | Inchkeith ... | 995.1 | -14 | WSW | 5 | c | 35 | 95 | 8 | 8 | 9 | 9 | 4-6 | 7-8 | 1500 |
| | Leuchars ... | 995.1 | -22 | WSW | 3 | bc | 33 | 85 | 8 | 7 | - | 3 | 4-6 | 4-6 | 4000 |
| 12 | Renfrew ... | 998.6 | -8 | WNW | 3 | c/ps₀ | 36 | 75 | 8 | 9 | 2 | - | 7-8 | 9+ | 2500 |
| | Eskdalemuir ... | 997.2 | -16 | NW'W | 4 | c | 34 | 75 | 8 | 5 | 3 | - | Tr | 9 | 1500 |
| 13A | Tiree ... | 997.6 | -28 | WNW | 7 | ph(r) | 42 | 65 | 8 | 8 | - | 3 | 4-6 | 4-6 | 2500 |
| 13B | Stornoway ... | 992.3 | -24 | NW | 7 | s.rs | 37 | 85 | 8 | 9 | 7 | - | 7-8 | 9 | 2500 |
| 15 | Dalwhinnie ... | 994.0 | -20 | SW | 3 | c | 31 | 95 | 8 | 4 | 2 | - | 4-6 | 7-8 | 1500 |
| | Aberdeen ... | 991.0 | -32 | W'S | 4 | ps | 36 | 65 | 8 | 3 | - | 3 | 7-8 | 9 | 2500 |
| | Wick ... | 987.2 | -24 | WNW | 6 | c/s | 29 | 95 | 7 | 9 | 2 | - | 4-6 | 7-8 | 1500 |
| 16 | Lerwick ... | 983.0 | -20 | NW | 2 | bc/p | 33 | 95 | 7 | 8 | - | - | 4-6 | 4-6 | 1500 |
| 17 | Blacksod Point | 1008.6 | -8 | NW'W | 7 | PH(R) | 40 | 85 | 8 | 3 | - | - | 7-8 | 7-8 | 220 |
| 18 | Malin Head ... | 1001.2 | -6 | NNW | 6 | bc/p | 40 | 65 | 8 | 9 | - | - | 4-6 | 4-6 | 1500 |
| | Aldergrove ... | 1002.7 | -14 | WNW | 5 | pr | 37 | 85 | 7 | 9 | - | - | 9 | 9 | 1500 |
| | Donaghadee ... | 1000.8 | -20 | NW | 6 | prs₀ | 40 | 85 | 7 | 6 | - | - | 10 | 10 | 800 |
| 19 | Birr Castle ... | 1008.0 | -18 | NW | 4 | c | 45 | 75 | 7 | 3 | - | 7 | 2-3 | 10 | 2500 |
| 20 | Valentia Obsy. | 1013.2 | -16 | W'N | 5 | c | 48 | 75 | 8 | 5 | - | - | 10 | 10 | 1500 |
| | Roches Point... | 1010.9 | -12 | NW | 4 | c | 48 | 85 | 8 | 3 | - | - | 7-8 | 7-8 | 1500 |

### OBSERVATIONS at 18h. G.M.T. 28th December

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1000.8 | -16 | W | 4 | c | 44 | 65 | 7 | 5 | - | - | 7-8 | 7-8 | 2500 | 1 | * |
| Croydon | 1001.5 | -18 | W'N | 5 | bc | 44 | 65 | 6 | 5 | 7 | - | 2-3 | 4-6 | 1500 | 1 | * |
| S. Farnborough | 1001.3 | -14 | W | 4 | ir₀ | 43 | 75 | 8 | 5 | 1 | - | 2-3 | 4-6 | 2500 | 1 | * |
| Winchester | 1002.3 | -16 | WNW | 5 | c | 43 | 75 | 8 | 5 | - | - | 9 | 9 | 2500 | 1 | * |
| Boscombe Down | 1003.1 | -12 | W'N | 4 | c | 42 | 85 | 7 | 5 | 7 | - | 4-6 | 7-8 | 1500 | 1 | * |
| Calshot, S'thmtn | 1003.8 | -16 | W'N | 5 | q | 46 | 65 | 7 | 5 | - | - | 10 | 10 | 2500 | 1 | 3 |
| Dungeness | * | * | NW | 2 | c | * | * | 7 | 5 | - | * | 7-8 | 7-8 | 2500 | * | 2 |
| Lympne | 1000.7 | -23 | WNW | 5 | o/pr | 43 | 75 | 46 | 5 | - | - | 10 | 10 | 1500 | 1 | * |
| Shoeburyness | 999.5 | -20 | WNW | 4 | bc/r | 43 | 75 | 7 | 1 | - | - | 2-3 | 2-3 | 1500 | 1 | * |
| Felixstowe | 998.6 | -22 | WNW | 4 | bc | 43 | 65 | 7 | 5 | - | - | 2-3 | 2-3 | 2500 | 1 | 3 |
| Gorleston | 996.7 | -16 | NW'W | 4 | bc/pr | 41 | 85 | 7 | 6 | - | - | 4-6 | 4-6 | 1500 | 1 | 3 |
| Cranwell | 996.9 | -20 | WSW | 4 | bc | 36 | 95 | 6 | 8 | - | - | 4-6 | 4-6 | 1500 | 1 | * |
| Birmingham | 1000.4 | -18 | W | 4 | b | 37 | 95 | 8 | 5 | - | - | 1 | 1 | 2500 | 1 | * |
| Upper Heyford | 1000.6 | -18 | W | 5 | pr | 40 | 75 | 8 | 6 | - | - | 7-8 | 7-8 | 800 | 1 | * |
| Leafield | 1000.8 | -16 | W'N | 5 | bc | 39 | 75 | 8 | 6 | - | - | 2-3 | 2-3 | 800 | 1 | * |
| Ross-on-Wye | 1002.4 | -20 | NW'W | 5 | PH(R) | 39 | 85 | 8 | 9 | - | - | 7-8 | 7-8 | 2500 | 1 | * |
| Portland Bill | 1003.8 | -18 | WNW | 6 | c | 49 | 75 | 8 | 4 | - | - | 10 | 10 | 2500 | 1 | 4 |
| Plymouth | 1006.9 | -14 | W | 5 | c/r | 48 | 95 | 6 | 5 | 2 | - | 7-8 | 10 | 800 | 1 | 3 |
| Falmouth | 1007.8 | -6 | W'N | 5 | q | 49 | 85 | 7 | 8 | 2 | - | 4-6 | 9 | 4000 | 1 | 3 |
| Scilly (St. Mary's) | 1009.4 | -14 | NW'W | 7 | c | 49 | 95 | 8 | 8 | 2 | - | 7-8 | 10 | 4000 | 1 | 5 |
| Guernsey | 1007.2 | -24 | NW | 7 | rr | 50 | 95 | 7 | 6 | - | - | 10 | 10 | 1500 | 1 | 4 |
| Pembroke | 1004.2 | -16 | WNW | 6 | q | 46 | 85 | 7 | 8 | 6 | - | 4-6 | 7-8 | 2500 | 0 | 3 |
| Holyhead | 1001.7 | -12 | NW'N | 7 | c/ph(r) | 42 | 85 | 8 | 8 | - | 3 | 4-6 | 7-8 | 1500 | 1 | 4 |
| Chester (Sealand) | 999.9 | -10 | NNW | 4 | c/ph(r) | 38 | 85 | 6 | 9 | - | - | 9 | 9 | 800 | 1 | * |
| L'pool (Bidston) | 998.6 | -4 | NW'W | 5 | PH(R) | 36 | 85 | 8 | 9 | - | - | 9+ | 9+ | 1500 | 1 | * |
| Harrogate | 996.2 | -6 | WSW | 3 | b | 32 | 95 | 7 | - | - | - | 0 | 0 | - | 6 | * |
| Spurn Head | 993.9 | -4 | NW'W | 7 | q | 38 | 85 | 7 | 6 | - | - | 2-3 | 2-3 | 4000 | 1 | 4 |
| Catterick | 994.6 | -22 | WNW | 4 | b | 33 | 75 | 8 | 4 | - | - | 1 | 1 | 4000 | 1 | * |
| Tynemouth | 993.1 | -20 | W | 4 | bc | 35 | 85 | 7 | 2 | - | - | 4-6 | 4-6 | 2500 | 1 | 2 |
| Inchkeith | 989.4 | -40 | WNW | 6 | ps | 36 | 85 | 8 | 8 | 7 | - | 4-6 | 7-8 | 1500 | 6 | 3 |
| Leuchars | 987.9 | -50 | W | 5 | c | 33 | 75 | 8 | 4 | - | 3 | 7-8 | 7-8 | 2500 | 6 | * |
| Renfrew | 991.9 | -48 | WNW | 5 | prs | 35 | 95 | 7 | 9 | - | - | 9+ | 9+ | 2500 | 1 | * |
| Eskdalemuir | 992.8 | -32 | W | 4 | ps | 32 | 85 | 7 | 6 | - | - | 7-8 | 7-8 | 1500 | 7 | * |
| Tiree | 993.3 | -22 | WNW | 8 | PH(R) | 40 | 85 | 8 | 8 | - | 3 | 7-8 | 9 | 2500 | 1 | 4 |
| Stornoway | 989.3 | +24 | N | 5 | c | 37 | 95 | 7 | 9 | - | - | 7-8 | 7-8 | 2500 | 1 | 3 |
| Dalwhinnie | 988.6 | -20 | W | 3 | ks | 30 | 95 | 4 | 4 | - | - | 10 | 10 | 800 | 8 | * |
| Aberdeen | 985.7 | -34 | SW | 3 | ps | 30 | 95 | 5 | 3 | - | - | 9+ (7-8 struck out) | 9+ (7-8 struck out) | 2500 | 6 | 1 |
| Wick | 983.3 | -22 | W | 3 | c | 31 | 95 | 8 | 9 | 1 | - | 4-6 | 7-8 | 1500 | 6 | 3 |
| Lerwick | 984.1 | +10 | NNW | 3 | bc | 33 | 95 | 7 | 8 | - | - | 4-6 | 4-6 | 1500 | 6 | * |
| Blacksod Point | 1008.8 | 0 | NW'W | 7 | ph(r) | 40 | 75 | 8 | 3 | - | - | 9 | 9 | 800 | 0 | 4 |
| Malin Head | 997.9 | -20 | NW'W | 7 | bc/p | 42 | 65 | 8 | 3 | - | - | 4-6 | 4-6 | 2500 | 1 | 5 |
| Aldergrove | 1000.8 | -10 | W | 4 | bc | 36 | 65 | 7 | 3 | - | - | 2-3 | 2-3 | 1500 | 1 | * |
| Donaghadee | 998.9 | -10 | WNW | 6 | prs₀ | 36 | 85 | 7 | 6 | - | - | 10 | 10 | 800 | 1 | 3 |
| Birr Castle | 1007.0 | -2 | NW | 2 | bc | 37 | 85 | 7 | - | 4 | - | 0 | 4-6 | - | 1 | * |
| Valentia Obsy. | 1012.1 | -8 | NW'N | 5 | pr | 45 | 65 | 8 | 6 | - | - | 9 | 9 | 1500 | 1 | 4 |
| Roches Point | 1009.7 | -6 | NW | 4 | c | 43 | 95 | 8 | 3 | - | - | 7-8 | 7-8 | 1500 | 1 | 4 |

### PAST 24 HOURS.

| Stations | Weather 7h.–13h. 28th (37) | Weather 13h.–18h. 28th (38) | Weather 18h 28th to 1h. 29th (39) | Weather 1h.–7h. 29th (40) |
|---|---|---|---|---|
| London (Kew) | cz₀cr₀ | cpm₀c | bcb | bcp₀bc |
| Croydon | cm₀r₀ | cr₀ | cbcz₀ | qbcpsm₀ |
| S. Farnborough | r₀ccr₀ | c/pr₀ | bcpr₀ | bcbw |
| Winchester | cr₀ | cm₀-rc | cbcb | bbc |
| Boscombe Down | oid₀r₀ | cir | cb | bbcp₀ |
| Calshot, S'thmtn | cd₀m₀q | cdir₀q | cp₀rc | bbc |
| Dungeness | o | p | * | bc |
| Lympne | c | prqcm₀ | cbcb | bbcx |
| Shoeburyness | cqorr | crrb | b | bbcx |
| Felixstowe | or₀ | bcb | bbc | bcbc |
| Gorleston | or₀r₀ | cbcq | bcprq | bcxq |
| Cranwell | crd₀c | prirc | cpsbbc | cm₀bc |
| Birmingham | cpr | cbcph | bcph₀ | cos₀s₀ |
| Upper Heyford | cqorrb | cprq | cbcb | bc,cos |
| Leafield | cr₀pr | cbc | bcb | bcos₀ |
| Ross-on-Wye | cid₀ir₀q | cp | bcqp₀bbc | cqpr₀ |
| Portland Bill | cir | cir | bc,mirbc | bcbc |
| Plymouth | cm₀or₀r₀q | om₀rrc | cprbc | bcpr |
| Falmouth | cr₀q | cr₀q | cbcq | bcp₀q |
| Scilly (St. Mary's) | c | coir₀ | cp₀q | bcp₀ |
| Guernsey | oid₀ | orr | oiroc | ocq |
| Pembroke | circ | cq | bcq | bcq |
| Holyhead | r₀pr₀q | Prhpr₀q | bc,prq | pr₀cq |
| Chester (Sealand) | ckqr | PHKq | cphq | cpr₀mq |
| L'pool (Bidston) | cprh₀Kqprq | Prhq | cPHS | PHbv |
| Harrogate | cbphrs | cbps | bps | bps |
| Spurn Head | opr₀q | cprqbc | bcq | bcqps |
| Catterick | qpr₀prs₀ | cps₀ | bcps₀ | cbcb |
| Tynemouth | bcph | bcph-bc | bcq | bcpsqbc |
| Inchkeith | bcc | cPsq | bcc | c |
| Leuchars | crs₀os | bcqsb | bcqps | bbcVq |
| Renfrew | crs₀ps₀ | phprsq | ps₀qb | bbc |
| Eskdalemuir | cpshbcc | cps | cpsb | b |
| Tiree | bcphc | cps₀PHRT | PHKL | ph |
| Stornoway | cprsq | cirsq | cphsq | cPHX |
| Dalwhinnie | is | s | * | s₀s₀ |
| Aberdeen | s₀pbc | cpsbc | css,bc | bccrs |
| Wick | ishq | cpsc | cpsbc | irsc |
| Lerwick | cpsbv | bcps₀ | bccps | cprs |
| Blacksod Point | phrcq | phcq | phrqc | phrq |
| Malin Head | bcphr | bcqphr₀ | cqphr | cqphr |
| Aldergrove | bcprs₀ | prsbc | csrs | cprs |
| Donaghadee | coqprs₀ | oqprs₀ | oprsq | cprsqc |
| Birr Castle | cprc | cprbc | bc | bcxqbc |
| Valentia Obsy. | cir₀p₀ | cp₀ph₀q | prshq | prhq |
| Roches Point | cpc | cpc | cp₀c | cp₀bc |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100-2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s₀, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s₀/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus.
R, heavy rain. r₀, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. Φ, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.
*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

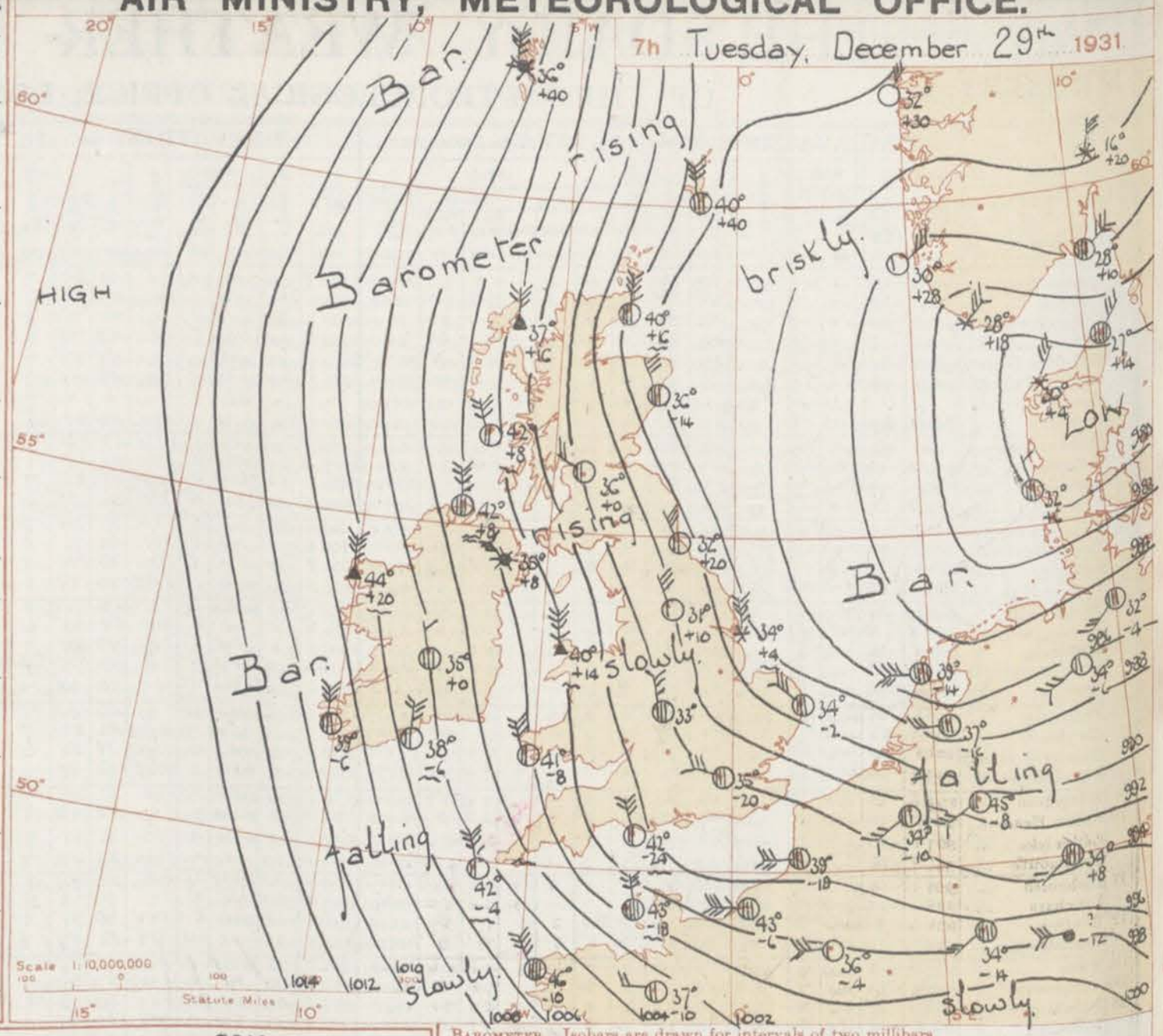
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for 28th December 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 27th to 9h. 28th | Temperature. Max. 9h.—17h. 28th | Rainfall. Night. 17h. 27th to 9h. 28th | Rainfall. Day. 9h.—17h. 28th | Sunshine. Sunrise to Sunset. 28th |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | oco | oroc | 42 | 51 | - | 0.5 | 0.0 |
| | Bournemouth | dod | odod | 45 | 51 | - | 2 | 0.0 |
| | Ventnor ... | oudo | opou | 46 | 50 | - | 2 | 0.0 |
| | Southsea ... | od | ddc | 45 | 51 | - | 1 | 0.0 |
| | Bognor Regis | coco | rrco | 43 | 50 | - | 1 | 0.0 |
| | Littlehampton | c | cpc | 43 | 50 | - | 0.4 | 0.0 |
| | Worthing ... | co | dr.o | 44 | 51 | - | 0.5 | 0.0 |
| | Brighton ... | odr | o | 45 | 49 | - | 0.1 | 0.0 |
| | Eastbourne† | o | or.oc | 46 | 50 | - | Trace | 0.0 |
| | Hastings† ... | oco | opco | 43 | 50 | - | 0.3 | 0.0 |
| | Folkestone ... | o | or | 43 | 50 | - | 1 | 0.0 |
| | Dover... ... | co | orir | 44 | 50 | - | 4 | 0.0 |
| | Deal ... ... | o | gro | 43 | 51 | - | 3 | 0.0 |
| | Ramsgate ... | c | rorc | 43 | 50 | - | 4 | 0.0 |
| | Margate ... | c | cr | 44 | 51 | - | 4 | 0.0 |
| 2 | Southend ... | co | opco | 42 | 49 | - | 4 | 0.0 |
| | Maldon ... | c | pcir | 44 | 51 | - | 1 | 0.3 |
| | Clacton-on-Sea | cor | orc | 42 | 48 | - | 2 | 0.4 |
| | Dovercourt ... | c | rcbec | 43 | 49 | - | 1 | 0.2 |
| | Lowestoft ... | oprbc | bbec | 42 | 46 | Trace | 2 | 0.7 |
| | Skegness ... | obc | bcom. | 44 | 49 | 1 | - | 3.1 |
| | Mablethorpe | bcc | crs | 44 | 45 | 2 | 0.3 | 2.4 |
| | Cleethorpes ... | bc | cgho | 44 | 45 | 1 | 0.1 | 2.1 |
| 3 | Leamington S. | odo | oc | 45 | 50 | 1 | - | 0.0 |
| 4 | Cheltenham† | oci.o | cir.c | 44 | 46 | Trace | 1 | 0.0 |
| 5 | Bath ... ... | drc | cir. | 47 | 51 | Trace | 1 | 0.0 |
| | Weymouth ... | d.c | c | 47 | 52 | 0.2 | 0.1 | 0.0 |
| | Jersey ... | c | cr | 48 | 52 | - | 1 | 0.0 |
| | Torquay ... | p.cq | oporpc | 45 | 52 | Trace | 1 | 0.0 |
| | Penzance ... | c | ciro | 48 | 52 | - | 3 | 0.0 |
| | St. Ives ... | o | pr | 48 | 52 | - | 0.5 | 0.0 |
| | Bude ... ... | cpo | opo | 49 | 53 | - | 1 | 0.0 |
| | Ilfracombe ... | dd | od | 49 | 52 | 0.3 | 2 | 0.0 |
| 6 | Aberystwyth | cir | cqphr | 47 | 47 | 2 | 2 | 0.0 |
| 7 | Llandudno ... | crc | pccp | 44 | 47 | 2 | 1 | 0.3 |
| | Colwyn Bay... | rbcro | bcph p | 43 | 45 | 3 | 2 | 0.2 |
| | Rhyl ... ... | rcprh | bccph | 44 | 48 | 2 | 1 | 0.8 |
| 8 | Wallasey ... | cpcbc | cpcoh | 44 | 46 | 1 | 1 | 1.2 |
| | Southport‖ ... | cbcophrc | cp.cb | 45 | 46 | 0.2 | 0.3 | 0.3 |
| | Blackpool ... | pcb | cph | 44 | 45 | 0.2 | 1 | 2.3 |
| | Morecambe ... | cpsh | cbbcr | 43 | 44 | 0.3 | 3 | 1.0 |
| 9 | Ilkley... ... | bcrsb | bcrsc | 41 | 43 | Trace | 2 | 1.9 |
| 10 | Berwick-on-T. | ch.bc | bcs.b | 36 | 40 | Trace | Trace | 1.5 |
| 11 | Dunbar ... | om. | cs.x | 36 | 44 | Trace | Trace | 0.6 |
| 12 | Douglas ... | cbqc | iriHcbhx | 42 | 44 | 0.5 | 1 | 2.9 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

## AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm, - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :— ○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 29th Dec. 1931. |
|---|---|
| 1. S.E. England | Fresh squally west to northwest wind, snow showers, bright intervals; cold, sharp frost at night. |
| 2. E. England... ▼ 3. E. Midlands 4. W. Midlands | Fresh to strong squally northwesterly winds; snow showers, bright intervals; cold, sharp frost at night. |
| 5. S.W. England 6. South Wales | Fresh to strong squally northwesterly winds; rain, sleet or snow showers, bright intervals; cold, frost at night. |
| 7. North Wales ▼ 8. N.W. England ▼ 9. N. Midlands 10. N.E. England ▼ 11. S.E. Scotland ▼ 12. S.W. Scotland & Isle of Man ▼ 13. A. W. Scotld. B. N.W. Scotland ▼ 14. Mid-Scotland 15. N.E. Scotland ▼ 16. Orkneys and Shetlands. ▼ | Strong squally northwest to north winds; snow showers, bright intervals; cold, sharp frost at night. |
| 17. N.W. Ireland ▼ 18. N.E. Ireland ▼ 19. S.E. Ireland 20. S.W. Ireland | As 5 - 6. |

### GENERAL INFERENCE.

Pressure is high from Greenland to Spain and lowest over the Eastern Baltic, while shallow depressions are travelling southwards over the North Sea. Fresh to strong squally north to northwest winds with occasional snow or sleet showers and bright intervals will occur generally with a low temperature.

### FURTHER OUTLOOK.

Continuing cold with occasional snow or sleet showers.

Times of issue of Gale Warnings.

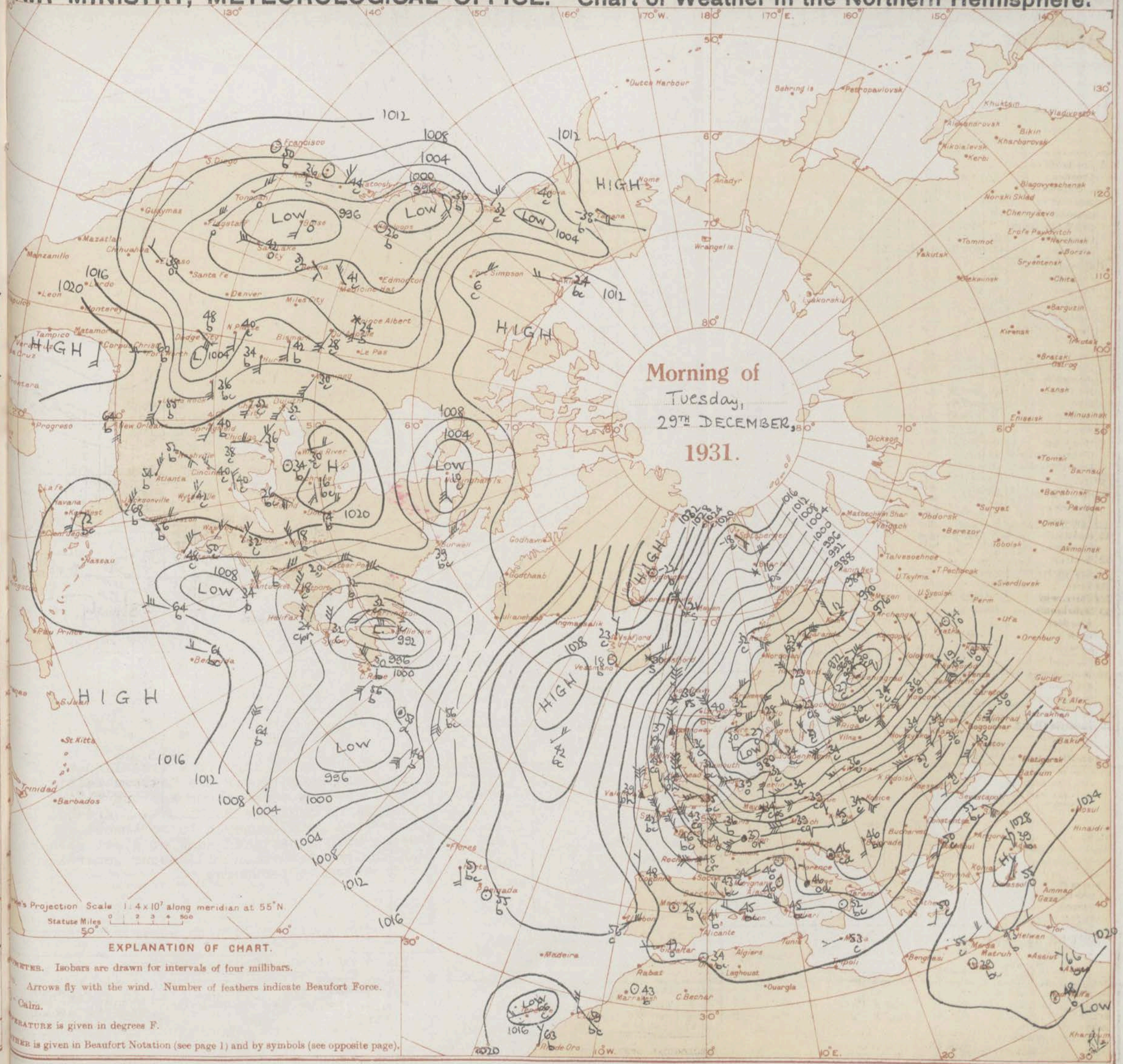
▼ South Cone 1420 on 26th in districts 11, 13, 15 and 16; 1440 on 27th in districts 7, 8, 10, 12, 17 and 18, 1900 on 27th in district 2.

Forecasts issued at 0945 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.



Page 4.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 29th December 1931.

No. 25604

### OBSERVATIONS at 1 hr. G.M.T. 29th December

| District. | Stations. | Height above M.S.L. in feet. | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind Direc. (3) | Wind Force. 0-12 (4) | Weather. (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew)... | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon ... | 217 | 998.6 | -8 | W | 4 | b | 35 | 85 | 7 | - | - | - | 0 | 0 | - |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester ... | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot (S'thmtn) | 8 | 1001·1 | -10 | W | 5 | b | 38 | 75 | 8 | 5 | - | 1 | Tr. | Tr. | 2500 |
| | Dungeness ... | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne ... | 346 | 998.3 | -8 | WNW | 4 | b | 35 | 85 | 8 | - | - | - | 0 | 0 | - |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe ... | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston ... | 14 | 992.4 | -14 | W | 3 | c | 34 | 95 | 7 | 8 | 3 | - | 2·3 | 7-8 | 2500 |
| | Cranwell ... | 240 | 992·2 | -24 | W'S | 5 | c | 33 | 95 | 6 | 5 | - | - | 9+ | 9+ | 1500 |
| 3 | Birmingham ... | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield ... | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye ... | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill... | 32 | 1001·1 | -6 | NW | 5 | bc | 42 | 85 | 8 | 2 | - | - | 2·3 | 2·3 | 2500 |
| | Plymouth ... | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth ... | 200 | 1005.9 | -2 | NW | 5 | q | 42 | 65 | 8 | 3 | - | - | 4·6 | 4·6 | 4000 |
| | Scilly (St. Mary's) | 163 | 1007.4 | -4 | N'W | 6 | q | 41 | 85 | 8 | 3 | 4 | - | 2·3 | 4·6 | 2500 |
| | Guernsey ... | 175 | 1004.0 | -20 | NNW | 6 | c | 43 | 75 | 8 | 8 | - | - | 7·8 | 7·8 | 2500 |
| 6 | Pembroke ... | 142 | 1003·3 | 0 | NW | 7 | q | 40 | 85 | 8 | 4 | 6 | - | 1 | 4·6 | 4000 |
| 7 | Holyhead ... | 26 | 997.0 | -20 | NWN | 9 | c/pr | 41 | 85 | 7 | 8 | - | - | 9+ | 9+ | 1500 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate ... | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head ... | 29 | 987.7 | -14 | NW'W | 7 | q | 37 | 85 | 7 | 2 | 3 | - | 2·3 | 2·3 | 4000 |
| | Catterick ... | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth ... | 67 | 988.6 | +4 | WNW | 4 | bc | 35 | 85 | 8 | 2 | - | - | 4·6 | 4·6 | 2500 |
| 11 | Inchkeith ... | 190 | 990.8 | +18 | WSW | 3 | c | 35 | 76 | 8 | 5 | 8 | - | 4·6 | 7·8 | 2500 |
| | Leuchars ... | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew ... | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir ... | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree ... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway ... | 34 | 996·2 | +18 | N | 4 | c | 37 | 95 | 7 | 2 | 2 | - | 4·6 | 9+ | 2500 |
| 15 | Dalwhinnie ... | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen ... | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick ... | 81 | 988.9 | +16 | NW | 3 | bc | 30 | 85 | 8 | 8 | 7 | 1 | 4·6 | 4·6 | 2500 |
| 16 | Lerwick ... | 54 | 983.5 | -12 | NNW | 3 | cjp | 37 | 85 | 7 | 8 | - | - | 7·8 | 7·8 | 1500 |
| 17 | Blacksod Point | 18 | 1006.9 | -10 | NWW | 7 | PH(R) | 41 | 85 | 7 | 9 | - | - | 10 | 10 | <150 |
| 18 | Malin Head ... | 52 | 998.4 | +8 | NNW | 7 | cjp | 40 | 85 | 7 | 9 | 6 | - | 7·8 | 4·8 | 1500 |
| | Aldergrove ... | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee ... | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle ... | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1011.0 | -10 | N | 5 | c | 42 | 95 | 8 | 4 | - | - | 9 | 9 | 2500 |
| | Roches Point... | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 29th December — PAST 24 HOURS.

| District. | Stations. | Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather. (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low. (23) | Cloud Form Med. (24) | Cloud Form High. (25) | Cloud Amount Low. 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground. 0-9 (29) | Sea. 0-9 (30) | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F. (32) | Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 28th. Hrs. (36) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew)... | 993.7 | -10 | W'S | 3 | bc | 35 | 85 | 7 | 8 | 6 | - | 2·3 | 2·3 | 2500 | 1 | * | 52 | 34 | 30 | 1 | Tr. | 0.0 |
| | Croydon ... | 994.4 | -20 | W'N | 4 | c/po | 35 | 85 | 6 | 5 | - | - | 7·8 | 7·8 | 1500 | 1 | * | 52 | 34 | 32 | 2 | Tr. | 0.0 |
| | S. Farnborough | 994.5 | -10 | WNW | 4 | b | 34 | 85 | 8 | 5 | - | - | 1 | 1 | 4000 | 1 | * | 51 | 33 | 27 | Tr | Tr. | 0.0 |
| | Winchester ... | 995.8 | -14 | WNW | 4 | bc | 33 | 95 | 8 | 5 | - | - | 4·6 | 4·6 | 2500 | 1 | * | 50 | 33 | 31 | 0.2 | - | 0.0 |
| | Boscombe Down | 996.5 | -10 | WNW | 4 | bc/po | 34 | 95 | 7 | 5 | - | - | 4·6 | 4·6 | 1500 | 6 | * | 49 | 32 | 29 | 1 | 0·1 | * |
| | Calshot (S'thmtn) | 996.6 | -24 | W'N | 5 | bc | 37 | 75 | 8 | 5 | - | 1 | 4·6 | 4·6 | 2500 | 0 | 2 | 50 | 34 | 29 | 1 | 0·3 | 0.0 |
| | Dungeness ... | * | * | W | 5 | bc | * | * | 7 | 5 | 3 | * | 4·6 | 4·6 | 2500 | * | 3 | 49 | 33 | * | 0·3 | - | * |
| | Lympne ... | 994.1 | -16 | W | 3 | c | 31 | 85 | 8 | 5 | - | - | 7·8 | 7·8 | 4000 | 1 | * | 49 | 31 | 27 | 1 | - | 0.0 |
| 2 | Shoeburyness | 992.6 | -14 | WNW | 5 | bc | 36 | 85 | 8 | 6 | 4 | - | 2·3 | 4·6 | 2500 | 0 | * | 50 | 33 | 29 | 3 | - | 0.0 |
| | Felixstowe ... | 991.6 | -18 | WNW | 4 | bc | 35 | 95 | 7 | 5 | - | - | 4·6 | 4·6 | 2500 | 0 | 3 | 49 | 34 | 30 | 1 | - | 0.2 |
| | Gorleston ... | 989.5 | -2 | WNW | 4 | c | 34 | 95 | 7 | 8 | - | - | 7·8 | 7·8 | 2500 | 4 | 3 | 47 | 32 | 30 | 1 | 0·2 | 1.0 |
| | Cranwell ... | 991·7 | +2 | NWW | 4 | c | 32 | 85 | 6 | 5 | - | 1 | 4·6 | 7·8 | 2500 | 4 | * | 48 | 31 | 28 | 2 | 0·3 | 1·3 |
| 3 | Birmingham ... | 994.6 | -6 | NW | 4 | c/o | 33 | 95 | 7 | 6 | 3 | - | 1 | 7·8 | 800 | 7 | * | 48 | 32 | 29 | 2 | 2 | 0·5 |
| | Upper Heyford | 994.2 | -10 | NW'N | 5 | is | 33 | 95 | 7 | 6 | - | - | 10 | 10 | 800 | 7 | * | 48 | 32 | 29 | 2 | 1 | * |
| | Leafield ... | 994.0 | -10 | W'N | 4 | ss | 32 | 95 | 4 | 6 | - | - | 10 | 10 | 450 | 7 | * | 48 | 31 | 27 | 3 | 2 | 0.2 |
| 4 | Ross-on-Wye ... | 996.0 | -10 | W'N | 3 | c | 35 | 85 | 7 | 6 | 1 | - | 7·8 | 10 | 2500 | 1 | * | 52 | 33 | 30 | 1 | 1 | 0.0 |
| 5 | Portland Bill... | 996.1 | -24 | NW | 5 | bc | 42 | 85 | 8 | 2 | - | - | 2·3 | 2·3 | 2500 | 0 | 4 | 51 | 40 | * | 2 | 0·3 | * |
| | Plymouth ... | 1002·2 | -18 | WNW | 6 | bc/pr | 37 | 85 | 7 | 8 | - | - | 4·6 | 4·6 | 1500 | 1 | 2 | 52 | 36 | 33 | 4 | 2 | 0·0 |
| | Falmouth ... | 1002.5 | -6 | WNW | 5 | pr | 42 | 55 | 8 | 8 | - | - | 7·8 | 7·8 | 4000 | 1 | 4 | 52 | 42 | * | 1 | 0·1 | 0·0 |
| | Scilly (St. Mary's) | 1005.7 | -14 | NW | 7 | bc | 42 | 75 | 8 | 2 | - | - | 4·6 | 4·6 | 4000 | 1 | 5 | 51 | 40 | * | 1 | 0·1 | 0·1 |
| | Guernsey ... | 1001.2 | -18 | NNW | 6 | q | 43 | 55 | 9 | 8 | - | - | 9 | 9 | 2500 | 0 | 5 | 51 | 40 | 33 | 2 | 1 | 0.0 |
| 6 | Pembroke ... | 999.8 | -8 | NW | 6 | q | 41 | 95 | 7 | 4 | 6 | - | 2·3 | 4·6 | 4000 | 0 | 3 | 52 | 39 | * | Tr | - | 0.0 |
| 7 | Holyhead ... | 998.2 | +14 | N'W | 8 | ph(r) | 40 | 95 | 6 | 3 | - | - | 9+ | 9+ | 1500 | 1 | 4 | 47 | 39 | 37 | 2 | 0·3 | 0·3 |
| | Chester (Sealand) | 995.3 | +20 | NNW | 5 | bc | 36 | 75 | 6 | 8 | - | - | 4·6 | 4·6 | 1500 | 1 | * | 49 | 35 | 32 | 3 | 2 | 1·5 |
| 8 | L'pool (Bidston) | 995.4 | +26 | NNW | 5 | b | 37 | 65 | 9 | 4 | - | - | Tr. | Tr. | 2500 | 1 | * | 45 | 35 | 33 | 1 | 1 | 1.0 |
| 9 | Harrogate ... | 993.1 | +10 | WNW | 3 | b | 31 | 95 | 7 | 3 | - | 8 | Tr. | 1 | 2500 | 6 | * | 42 | 30 | 26 | 1 | Tr. | 3·2 |
| 10 | Spurn Head ... | 989.2 | +4 | NNW | 7 | is | 34 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 6 | 5 | 48 | 32 | * | 1 | 0·3 | 2·1 |
| | Catterick ... | 992.2 | +14 | NW | 5 | bc | 32 | 85 | 8 | 5 | - | - | 2·3 | 2·3 | 2500 | 4 | * | 43 | 32 | 26 | 1 | Tr. | * |
| | Tynemouth ... | 990.8 | +20 | NW | 3 | bc | 32 | 85 | 7 | 3 | - | - | 4·6 | 4·6 | 1500 | 6 | 3 | 42 | 32 | 28 | 2 | 0·6 | * |
| 11 | Inchkeith ... | 992.6 | +6 | WNW | 4 | c | 37 | 75 | 8 | 2 | 6 | 9 | 2·3 | 7·8 | 4000 | 0 | 3 | 39 | 33 | 27 | 0·2 | Tr. | 0·6 |
| | Leuchars ... | 992.0 | 0 | WNW | 4 | bc | 33 | 85 | 9 | 4 | 5 | - | 1 | 4·6 | 2500 | 6 | * | 37 | 30 | 23 | 0·4 | Tr. | 0·9 |
| 12 | Renfrew ... | 996.4 | 0 | WNW | 2 | bc | 36 | 75 | 7 | 8 | 3 | - | 2·3 | 2·3 | 2500 | 4 | * | 38 | 30 | 23 | 2 | 1 | 0·9 |
| | Eskdalemuir ... | 993.4 | 0 | NW | 5 | c | 31 | 75 | 8 | 5 | - | - | 7·8 | 7·8 | 4000 | 7 | * | 37 | 28 | 24 | 2 | 1 | 1·8 |
| 13A | Tiree ... | 998.3 | +8 | NWN | 8 | bc/ph(h) | 42 | 75 | 8 | 3 | - | 3 | 4·6 | 4·6 | 2500 | 1 | 4 | 42 | 35 | 31 | 2 | 2 | 0·4 |
| 13B | Stornoway ... | 998.6 | +16 | N | 5 | c/ph(r) | 37 | 95 | 7 | 6 | 7 | - | 7·8 | 10 | 1500 | 6 | 3 | 38 | 31 | * | 3 | 3 | 0·5 |
| 15 | Dalwhinnie ... | 993.5 | +2 | NW | 3 | ss | 31 | 85 | 4 | 4 | 2 | - | 7·8 | 10 | 1500 | 9 | * | 32 | 26 | 26 | 8 | 4 | 0.0 |
| | Aberdeen ... | 987.8 | -14 | NWN | 3 | c/rs | 36 | 85 | 7 | 6 | 2 | - | 7·8 | 10 | 1500 | 7 | 1 | 37 | 27 | 22 | 0·3 | 2 | 2·2 |
| | Wick ... | 989.7 | +16 | N | 7 | c/rs | 40 | 65 | 8 | 8 | 1 | - | 4·6 | 7·8 | 1500 | 7 | 4 | 35 | 29 | * | 0·1 | 3 | * |
| 16 | Lerwick ... | 989.9 | +40 | NNW | 6 | c | 40 | 65 | 7 | 8 | - | - | 7·8 | 7·8 | 1500 | 1 | * | 34 | 33 | * | Tr | 2 | 0·0 |
| 17 | Blacksod Point | 1007.6 | +20 | N | 7 | PH(R) | 44 | 65 | 7 | 9 | - | - | 9 | 9 | <150 | 0 | 5 | 46 | 37 | * | 1 | 4 | * |
| 18 | Malin Head ... | 1001·3 | +8 | NNW | 7 | cjp | 42 | 85 | 7 | 9 | - | - | 7·8 | 7·8 | 1500 | 0 | 6 | 44 | 38 | * | 1 | 2 | 0·5 |
| | Aldergrove ... | 1000·3 | +8 | WNW | 4 | prs | 35 | 95 | 5 | 9 | - | - | 10 | 10 | 800 | 3 | * | 41 | 33 | 27 | 1 | 7 | 1.0 |
| | Donaghadee ... | 997·8 | +14 | NNW | 3 | c | 40 | 85 | 7 | 5 | - | - | 9 | 9 | 1500 | 1 | 2 | 43 | 34 | * | 1 | 5 | * |
| 19 | Birr Castle ... | 1003·8 | 0 | NW | 1 | c | 35 | 95 | 7 | 3 | 2 | - | 2·3 | 10 | 1500 | 1 | * | 47 | 33 | 30 | 2 | 2 | 1·2 |
| 20 | Valentia Obsy.† | 1009.2 | -6 | NNW | 6 | c/ph(r) | 39 | 85 | 8 | 9 | - | - | 9+ | 9+ | 1500 | 1 | * | 52 | 37 | 35 | 2 | 1 | 0.0 |
| | Roches Point... | 1006.9 | -6 | N | 5 | bc | 38 | 95 | 8 | 3 | - | - | 4·6 | 4·6 | 1500 | 0 | 4 | 50 | 34 | * | 2 | 2 | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| Station | Height above M.S.L. in feet. | Weather Morning. (24 hrs, ended 9h.) | Weather Afternoon. | Weather Night. | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day. mm. | Rainfall Night. mm. | Sunshine to Sunset, hrs. | Humidity 15h. G.M.T. % Yesterday. | Humidity 9h. G.M.T. % To-day. | Visibility 9h. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew ... | 18 | c3o cr. | cpm c | bcbpoc | 52 | 34 | 30 | 1 | Tr. | 0.0 | • | • | 6 |
| Croydon ... | 217 | cm. r. | cr. | cbccphm | 52 | 34 | 32 | 2 | Tr. | 0.0 | • | • | 6 |
| Greenwich (Royal Observatory) ... | 149 | c | cr, rcm | cbcc,ss | 51 | 33 | 27 | 2 | 2 | 0.0 | 89 | 99 | 4 |
| City (Bunhill Row) ... | — | • | • | • | • | • | • | • | • | 0.0 | • | • | • |
| Westminster (St. James' Park) ... | 27 | • | • | • | 52 | 34 | 29 | 3 | | 0.0 | 94 | 93 | • |
| Regents Pk. (Botanic Gardens) ... | 168 | • | • | • | • | • | • | • | • | 0.0 | • | 92 | • |
| Camden Square ... | 110 | cr | crc | • | 51 | 33 | 30 | 6 | 2 | | | | • |
| Kensington ... | 80 | ocp | c | • | 52 | 34 | 28 | 4 | 0·3 | 0.0 | At 18h. 84 | 91 | • |
| Hampstead Observatory ... | 450 | cor | bcor | bcmm | 49 | 29 | 26 | 7 | 0·5 | 0.0 | • | 96 | |

**Atmospheric Pollution.**
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 29th

| South Kensington. Max. | Time. | Min. | Time. |
|---|---|---|---|
| 0·8 | 18h 28th | Nil | 0-6h 29th |

| Kew Observatory. Max. | Time. | Min. | Time. |
|---|---|---|---|
| 0·3 | 18h 28th | <0·1 | 1-5h 29th |

### FOREIGN OBSERVATIONS.

| Stations. | 18h. G.M.T. 28th December Barom. mb. | Wind Direc. | Wind Force. | Weather. | Temp. °F. | 7h. G.M.T. 29th December Barom. mb. | Wind Direc. | Wind Force. | Weather. | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day. mm. | Rainfall Night. mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris ... | 1006.6 | WSW | 7 | r.r. | 46 | 998.6 | W | 5 | b | 36 | 48 | 36 | Tr. | 6 |
| Brussels ... | | | | | | 992.6 | WSW | 4 | c | 34 | | 32 | | - |
| Berlin ... | 992.3 | SWW | 5 | rr | 37 | 986.8 | WSW | 4 | c | 34 | 46 | 34 | 4 | 2 |
| Zürich ... | 1012.8 | W | 4 | c | 39 | 1001.8 | W | 5 | o | 39 | 43 | • | - | - |
| Rome ... | | | | | | 1007.1 | N | 1 | dodo | 46 | | 36 | | 8 |

## EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13-18 | 9 | 47-54 |
| 1 | 1-3 | 5 | 19-24 | 10 | 55-63 |
| 2 | 4-7 | 6 | 25-31 | 11 | 64-75 |
| 3 | 8-12 | 7 | 32-38 | 12 | 75 |
| | | 8 | 39-46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | Objects not visible at |
|---|---|
| 0 Dense fog | 55 yards. |
| 1 Thick fog | 220 „ |
| 2 Fog | 550 „ |
| 3 Moderate fog | 1,100 „ |
| 4 Mist or haze | 1¼ miles. |
| 5 Poor visibility | 2½ „ |
| 6 Moderate „ | 6¼ „ |
| 7 Good „ | 12½ „ |
| 8 Very good „ | 31 „ |
| 9 Excellent „ | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

0 Calm. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2 G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

Page 1.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 30th December 1931.

No. 25605

### OBSERVATIONS at 13h. G.M.T. 29th December

| District | Stations (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | Humid. % (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 995.9 | +8 | NWW | 3 | b | 37 | 65 | 6 | - | 7 | - | 0 | 1 | - |
| | Croydon | 995.7 | +6 | NW | 3 | b | 36 | 75 | 6 | 5 | 3 | - | 1 | 1 | 2500 |
| | S. Farnborough | 996.5 | +10 | WNW | 3 | b | 37 | 65 | 8 | 5 | 4 | 1 | 1 | 1 2 | 4000 |
| | Winchester | 997.5 | +10 | NW'W | 4 | bc | 39 | 65 | 8 | 5 | 1 | 1 | 2.3 | 4.6 | 2500 |
| | Boscombe Down | 997.8 | +6 | NW | 4 | b | 38 | 65 | 8 | 5 | - | 1 | 1 | 1 | 4000 |
| | Calshot, S'thmtn | 997.5 | +6 | NW'W | 5 | b | 40 | 55 | 7 | 1 | 4 | 3 | Tr | 1 | 2500 |
| | Dungeness | * | * | NW | 3 | c | * | * | 6 | 8 | - | x | 9+ | 9+ | 1500 |
| | Lympne | 995.0 | +6 | NW'N | 4 | iso | 34 | 85 | 6 | 8 | - | - | 9+ | 9+ | 1500 |
| 2 | Shoeburyness | 994.1 | +4 | NW'N | 5 | bc | 36 | 75 | 7 | 7 | 6 | - | 1 | 2.3 | 2500 |
| | Felixstowe | 993.2 | +6 | NW | 3 | bc | 35 | 75 | 8 | 5 | - | 8 | 2.3 | 4.6 | 4000 |
| | Gorleston | 991.7 | 0 | NW | 3 | bc | 36 | 95 | 6 | 3 | - | - | 4.6 | 4.6 | 1500 |
| | Cranwell | 993.3 | -6 | W | 3 | bc | 33 | 75 | 5 | - | 3 | 6 | 0 | 2.3 | - |
| 3 | Birmingham | 996.3 | 0 | WNW | 3 | iso | 36 | 85 | 5 | 6 | 3 | - | 4.6 | 7.8 | 800 |
| | Upper Heyford | 996.5 | +6 | WNW | 4 | bc | 35 | 75 | 7 | 8 | - | 1 | 4.6 | 4.6 | 1500 |
| | Leafield | 996.4 | +8 | NW'W | 4 | bc | 35 | 75 | 8 | 8 | - | 3 | 2.3 | 4.6 | 2500 |
| 4 | Ross-on-Wye | 997.5 | 0 | WNW | 3 | c | 38 | 75 | 8 | 3 | - | 3 | 4.6 | 7.8 | 4000 |
| 5 | Portland Bill | 998.8 | 0 | WNW | 4 | c | 40 | 85 | 8 | 4 | 4 | 1 | 4.6 | 7.8 | 2500 |
| | Plymouth | 1001.6 | -2 | NW | 6 | pr | 40 | 85 | 6 | 9 | - | - | 9 | 9 | 1500 |
| | Falmouth | 1004.2 | +2 | NW'N | 5 | PH(R) | 43 | 65 | 8 | 8 | - | - | 7.8 | 7.8 | 4000 |
| | Scilly (St. Mary's) | 1005.0 | -2 | NNW | 6 | c | 46 | 75 | 8 | 2 | 6 | 1 | 4.6 | 7.8 | 4000 |
| | Guernsey | 1000.5 | -2 | NNW | 6 | c | 42 | 75 | 8 | 8 | - | - | 10 | 10 | 2500 |
| 6 | Pembroke | 1002.5 | -2 | WNW | 4 | q | 42 | 85 | 7 | 4 | 6 | - | 4.6 | 7.8 | 2500 |
| 7 | Holyhead | 999.2 | +2 | NNW | 8 | ph | 43 | 95 | 6 | 9 | - | - | 9+ | 9+ | 1500 |
| | Chester (Sealand) | 996.2 | -4 | NW'N | 5 | c | 42 | 75 | 7 | 9 | - | 3 | 7.8 | 9 | 800 |
| 8 | L'pool (Bidston) | 995.6 | +4 | NW'N | 6 | q | 43 | 55 | 8 | 3 | - | - | 7.8 | 7.8 | 1500 |
| 9 | Harrogate | 992.7 | 0 | NW | 5 | bc | 37 | 65 | 8 | 3 | - | 4 | 1 | 4.6 | 2500 |
| 10 | Spurn Head | 990.4 | +2 | NW | 7 | bc | 37 | 85 | 6 | 5 | 3 | 9 | 2.3 | 4.6 | 1500 |
| | Catterick | 992.3 | -12 | NW | 5 | iso | 38 | 65 | 7 | 6 | - | - | 9+ | 9+ | 1500 |
| | Tynemouth | 991.3 | -4 | NW | 6 | ss | 33 | 95 | 4 | 6 | - | - | 10 | 10 | 1500 |
| 11 | Inchkeith | 997.2 | +24 | NNW | 4 | ps | 36 | 85 | 8 | 8 | 6 | - | 4.6 | 7.8 | 2500 |
| | Leuchars | 996.9 | +26 | NW | 4 | ps | 37 | 85 | 5 | 3 | - | 3 | 9 | 9+ | 1500 |
| 12 | Renfrew | 1000.4 | +26 | N'W | 3 | b | 40 | 55 | 8 | 8 | 6 | - | Tr | Tr | 2500 |
| | Eskdalemuir | 996.6 | +24 | N | 5 | bc | 34 | 75 | 8 | 5 | - | 1 | 4.6 | 4.6 | 1500 |
| 13A | Tiree | 1002.9 | +18 | N | 6 | c | 43 | 75 | 8 | 8 | 6 | - | 4-6 | 7.8 | 2500 |
| 13B | Stornoway | 1002.4 | +18 | NNE | 5 | ph(r) | 39 | 95 | 7 | 9 | 7 | - | 7.8 | 9 | 1500 |
| 15 | Dalwhinnie | 1000.6 | +24 | NNW | 2 | is | 31 | 85 | 5 | 4 | 4 | - | 4.6 | 4.6 | 800 |
| | Aberdeen | 995.7 | +30 | N'W | 3 | bc/p | 35 | 85 | 7 | 3 | - | - | 4.6 | 4.6 | 1500 |
| | Wick | 996.8 | +14 | N | 6 | c/rs | 40 | 75 | 8 | 8 | 8 | 1 | 4.6 | 7.8 | 1500 |
| 16 | Lerwick | 996.4 | +26 | N | 7 | prso | 37 | 85 | 7 | 6 | - | - | 7.8 | 7.8 | 1500 |
| 17 | Blacksod Point | 1010.3 | +8 | N | 7 | PH(R) | 41 | 75 | 8 | 9 | - | - | 9 | 9 | <150 |
| 18 | Malin Head | 1003.7 | +6 | N'E | 6 | c/p | 44 | 75 | 8 | 9 | - | - | 7.8 | 7.8 | 1500 |
| | Aldergrove | 1001.8 | +4 | NW'N | 4 | bc/p | 39 | 75 | 7 | 3 | - | 3 | 4.6 | 4.6 | 1500 |
| | Donaghadee | 1000.4 | +12 | N | 7 | q | 43 | 75 | 8 | 9 | - | 2 | 4.6 | 4.6 | 2500 |
| 19 | Birr Castle | 1006.8 | +8 | NW | 3 | prso | 39 | 85 | 7 | 9 | - | - | 9+ | 9+ | 1500 |
| 20 | Valentia Obsy. | 1011.5 | +12 | NW'N | 6 | c/pr | 42 | 75 | 8 | 9 | - | - | 7.8 | 7.8 | 2500 |
| | Roches Point | 1007.3 | -4 | N | 5 | bc | 43 | 75 | 9 | 3 | - | - | 2.3 | 2.3 | 1500 |

### OBSERVATIONS at 18h. G.M.T. 29th December

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | Humid. % (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 996.6 | +8 | W | 3 | zo | 37 | 75 | 5 | 5 | - | - | 10 | 10 | 2500 | 1 | • |
| Croydon | 996.3 | +6 | WNW | 3 | c | 36 | 85 | 6 | 5 | - | - | 9+ | 9+ | 1500 | 1 | • |
| S. Farnborough | 997.4 | +10 | WNW | 4 | b | 35 | 85 | 8 | 5 | - | - | 1 | 1 | 2500 | 1 | • |
| Winchester | 998.4 | +12 | NW'W | 4 | bc | 35 | 85 | 8 | 5 | - | - | 2.3 | 2.3 | 2500 | 1 | • |
| Boscombe Down | 998.5 | +8 | NW | 5 | b | 37 | 75 | 7 | 5 | - | - | 1 | 1 | 2500 | 1 | • |
| Calshot, S'thmtn | 998.2 | +6 | WNW | 3 | bc/pr | 37 | 85 | 7 | 3 | - | - | 2.3 | 2.3 | 2500 | 0 | 1 |
| Dungeness | * | * | WNW | 3 | bc | * | * | 5 | 5 | - | * | 2.3 | 2.3 | 2500 | * | 1 |
| Lympne | 995.8 | +6 | WNW | 3 | b | 31 | 85 | 4 | - | - | - | 0 | 0 | - | 1 | • |
| Shoeburyness | 994.9 | 0 | WNW | 4 | bc | 35 | 85 | 7 | 8 | - | - | 4.6 | 4.6 | 2500 | 0 | • |
| Felixstowe | 993.5 | +2 | W | 3 | bc | 35 | 75 | 6 | 5 | 1 | - | 2.3 | 4.6 | 5700 | 0 | 3 |
| Gorleston | 991.7 | +2 | WNW | 3 | c | 34 | 85 | 6 | - | 2 | - | 0 | 10 | - | 1 | 2 |
| Cranwell | 995.5 | +20 | NW | 5 | bc | 33 | 95 | 6 | 5 | - | - | 2.3 | 2.3 | 2500 | 6 | • |
| Birmingham | 999.6 | +22 | NW | 5 | b | 36 | 75 | 7 | - | - | - | 0 | 0 | - | 6 | • |
| Upper Heyford | 998.2 | +20 | NW'W | 4 | roso | 33 | 95 | 6 | 6 | - | - | 10 | 10 | 1500 | 6 | • |
| Leafield | 998.4 | +20 | NNW | 5 | ps | 34 | 85 | 8 | 6 | - | - | 10 | 10 | 1500 | 6 | • |
| Ross-on-Wye | 1000.2 | +20 | N'W | 4 | bc | 37 | 65 | 8 | 4 | 1 | 3 | 1 | 4.6 | 4000 | 1 | • |
| Portland Bill | 999.2 | +6 | NW | 4 | bc | 42 | 85 | 8 | 4 | 4 | - | 4.6 | 4.6 | 2500 | 0 | 4 |
| Plymouth | 1002.0 | +4 | N | 6 | pr | 39 | 85 | 6 | 9 | - | - | 7.8 | 7.8 | 1500 | 1 | 2 |
| Falmouth | 1003.6 | +4 | NNW | 5 | c/ph | 40 | 75 | 8 | 8 | - | - | 7.8 | 7.8 | 4000 | 2 | 4 |
| Scilly (St. Mary's) | 1005.3 | 0 | NW | 7 | bc | 44 | 75 | 8 | 2 | - | - | 4.6 | 4.6 | 4000 | 1 | 5 |
| Guernsey | 1000.7 | +4 | N | 6 | bc | 42 | 75 | 9 | 3 | - | - | 4.6 | 4.6 | 1500 | 1 | 4 |
| Pembroke | 1002.9 | +8 | NW | 5 | q | 42 | 95 | 7 | 4 | 6 | - | 2.3 | 4.6 | 2500 | 0 | 3 |
| Holyhead | 1003.8 | +30 | NNE | 6 | q | 43 | 75 | 8 | 2 | - | - | 2.3 | 2.3 | 2500 | 1 | 4 |
| Chester (Sealand) | 1001.0 | +34 | NW'N | 4 | bc | 38 | 75 | 8 | 8 | - | - | 4.6 | 4.6 | 1500 | 1 | • |
| L'pool (Bidston) | 1000.9 | +28 | NNW | 5 | q | 39 | 65 | 8 | 8 | - | - | 4.6 | 4.6 | 2500 | 0 | • |
| Harrogate | 998.5 | +50 | NNW | 4 | iso | 34 | 85 | 5 | 6 | - | - | 9+ | 9+ | 2500 | 8 | • |
| Spurn Head | 991.6 | -10 | NNE | 7 | q | 39 | 75 | 7 | 3 | 6 | - | 4.6 | 7.8 | 2500 | 1 | 6 |
| Catterick | 998.8 | +40 | NNW | 5 | bc | 35 | 75 | 7 | 9 | - | - | 2.3 | 2.3 | 2500 | 1 | • |
| Tynemouth | 998.0 | +40 | NNW | 4 | bc/ps | 36 | 95 | 7 | 9 | - | - | 4.6 | 4.6 | 1500 | 6 | 4 |
| Inchkeith | 1001.7 | +20 | NW | 4 | bc | 37 | 85 | 8 | 5 | 4 | - | 2.3 | 2.3 | 4000 | 0 | 3 |
| Leuchars | 1001.6 | +28 | NW | 3 | bc | 36 | 75 | 8 | 8 | - | 93 | 2.3 | 4.6 | 2500 | 8 | • |
| Renfrew | 1004.5 | +26 | NNW | 2 | b | 37 | 65 | 8 | 5 | - | - | 1 | 1 | 2500 | 1 | • |
| Eskdalemuir | 1001.3 | +26 | N'W | 5 | b | 34 | 75 | 8 | 5 | - | - | 1 | 1 | 1500 | 7 | • |
| Tiree | 1006.8 | +22 | N | 6 | bc | 43 | 75 | 8 | 8 | 6 | - | 4.6 | 4.6 | 2500 | 1 | 4 |
| Stornoway | 1007.4 | +20 | N | 4 | c | 37 | 95 | 7 | 9 | 7 | - | 4.6 | 7.8 | 1500 | 1 | 3 |
| Dalwhinnie | 1004.3 | +24 | N | 2 | iso | 31 | 85 | 6 | 3 | 2 | - | 2.3 | 10 | 1500 | 9 | • |
| Aberdeen | 1000.6 | +28 | NNW | 4 | c/ps | 35 | 95 | 7 | 9 | - | - | 7.8 | 7.8 | 1500 | 3 | 3 |
| Wick | 1002.0 | +24 | N | 5 | bc | 38 | 85 | 8 | 8 | 1 | - | 4.6 | 4.6 | 1500 | 1 | 4 |
| Lerwick | 1000.6 | +20 | NW | 3 | c | 36 | 85 | 7 | 8 | - | - | 7.8 | 7.8 | 1500 | 1 | • |
| Blacksod Point | 1011.1 | +20 | N | 7 | PH(R) | 42 | 85 | 7 | 9 | - | - | 9+ | 9+ | <150 | 6 | 6 |
| Malin Head | 1008.0 | +22 | N'W | 6 | bc/p | 43 | 85 | 7 | 9 | - | - | 4.6 | 4.6 | 1500 | 1 | 5 |
| Aldergrove | 1005.9 | +22 | NNW | 3 | b | 35 | 85 | 8 | 3 | - | - | Tr | Tr | 1500 | 1 | • |
| Donaghadee | 1004.9 | +26 | N'E | 6 | q | 43 | 65 | 7 | 9 | - | - | 4.6 | 4.6 | 1500 | 0 | 5 |
| Birr Castle | 1009.6 | +18 | NW | 1 | bc | 35 | 95 | 8 | - | 4 | - | 0 | 2.3 | - | 1 | • |
| Valentia Obsy. | 1013.8 | +20 | N | 5 | phr | 40 | 65 | 8 | 9 | - | - | 4.6 | 4.6 | 2500 | 1 | 4 |
| Roches Point | 1009.0 | +14 | N | 5 | bc | 40 | 85 | 8 | 3 | - | - | 2.3 | 2.3 | 1500 | 0 | 3 |

### PAST 24 HOURS. WEATHER.

| Stations | 7h.–13h. 29th (37) | 13h.–18h. 29th (38) | 18h 29th to 1h. 30th (39) | 1h.–7h. 30th (40) |
|---|---|---|---|---|
| London (Kew) | cssbzo | bzoomo | opro bmo | c, bcmox |
| Croydon | o sosfbc | bzoc mo | cirsob | cmo |
| S. Farnborough | bossfb | bbcb | bodob | b, cbx |
| Winchester | bccpsbc | bccprsobc | bcrosolb | bbx |
| Boscombe Down | bcpsb | bcmob | b | b |
| Calshot, S'thmtn | psoqbc | bc | bqx | bx |
| Dungeness | bc | bc | • | bc |
| Lympne | bccsmo | csobm | bcpsmo | cbccmo |
| Shoeburyness | bccb | bbc | bcpro | bcpso b |
| Felixstowe | cpso bc | bbczo | bbcsb | cso bbc |
| Gorleston | cisbc | bcx | oprsq | cbcphq |
| Cranwell | soso bc | ipsfc | b, cpso | bcpsho |
| Birmingham | bc | cb | blc | bcb |
| Upper Heyford | ospbc | bccrso | orso | b |
| Leafield | sbc | bcchps | bcb | b |
| Ross-on-Wye | cbbc | cbccpob | bcb | b |
| Portland Bill | cirbcc | c-bc | b, b | b, bc |
| Plymouth | bccprshq | cprsq prs | cmopr | cbcx |
| Falmouth | bcPHq | bccPHq | cbcphlq | bcPHq |
| Scilly (St. Mary's) | bccp | cpo bc | pro bc | bc |
| Guernsey | cphbc | qphc | bc | bccbc |
| Pembroke | bcq | bcq | omqtlhphm | cprh |
| Holyhead | phoroc q | proph q | bcq | bc, prho |
| Chester (Sealand) | bccPH | bc | bcb | bcb |
| L'pool (Bidston) | vbPHq | bcq | qbv | bv |
| Harrogate | bbc | bcossrs | cbis | bcb |
| Spurn Head | psqcbc | bcpsrq | qpsh | qbccps |
| Catterick | bccqf | sobcpho | bccps | psbc |
| Tynemouth | bcqoss | opshbc | bcprs | bcps |
| Inchkeith | cbc | psobc | bc | bcb |
| Leuchars | bccpso | cprcrsc | crso rso | bcbx |
| Renfrew | bcbb | b | b bx | bx |
| Eskdalemuir | cbcpso | bcb | bcpso | b |
| Tiree | cbcph | cPH | bccph | cbc |
| Stornoway | cphrq | cphpr | bcph | bcph |
| Dalwhinnie | is | is | • | is |
| Aberdeen | cprsh | cssph | bcpsrs | rsbcph |
| Wick | cirs | irsbc | bcpsq | bcqps |
| Lerwick | cpho prso | cprso | ciro | corso |
| Blacksod Point | phq | phq | phq | phq |
| Malin Head | cqphr | cbcphr | bccphr | cphr |
| Aldergrove | cpfsbc | bcb | b | b, cpso |
| Donaghadee | cbcq | bcq | bcq | bc |
| Birr Castle | cphrso | prsobc | bcb | bbcx |
| Valentia Obsy. | rsoPHqprc | cphrbcphr | phr | phirs |
| Roches Point | bcv | bcvbc | bcbx | bcx |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, „ less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/so, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
so/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t. thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."

Capital letters indicate intense; suffix o indicates slight: repetition of letters indicates continuity: thus.
R, heavy rain. ro, slight rain.
rr, continuous rain.

<, less than (for cloud height).

⊕, Solar halo. ⏀, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; —, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than 1/10 of the sky.
"9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.
(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

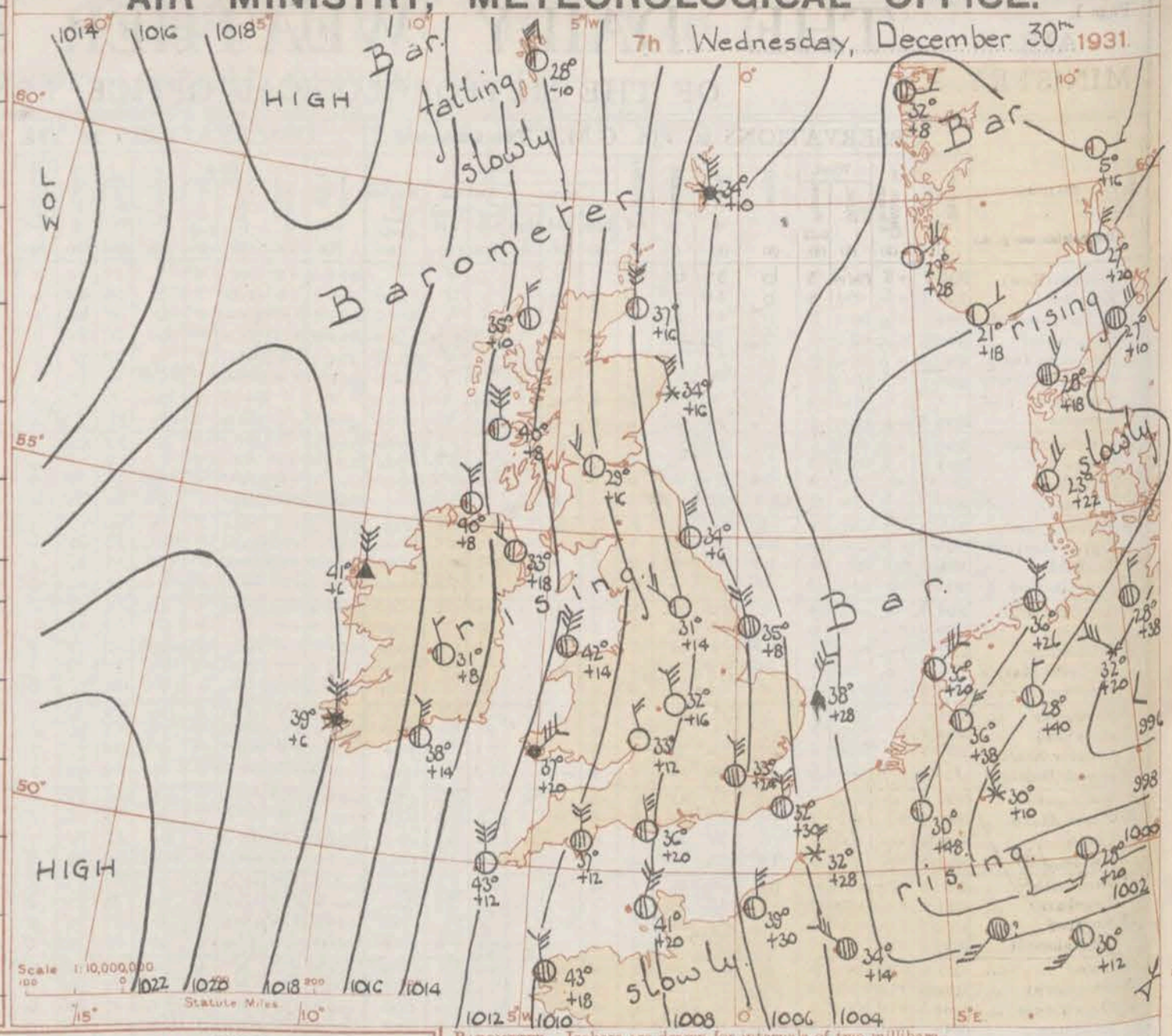
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for 24h. December 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 23rd to 9h. 24th | Temperature. Max. 9h.—17h. 24th | Rainfall. Night. 17h. 23rd to 9h. 24th | Rainfall. Day. 9h.—17h. 24th | Sunshine. Sunrise to Sunset. 24th |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | opsc | cbcb | 33 | 36 | Trace | Trace | 2·7 |
| | Bournemouth | b | bbcc | 36 | 41 | 0·5 | - | 4·7 |
| | Ventnor ... | cursb | bbcu | 36 | 41 | - | Trace | 4·6 |
| | Southsea ... | bousb | bbc | 36 | 40 | - | Trace | 4·3 |
| | Bognor Regis | bo | b | 34 | 40 | - | - | 4·2 |
| | Littlehampton | bc | bc | 35 | 41 | - | - | 4·2 |
| | Worthing ... | cbc | bcb | 35 | 40 | - | - | 4·2 |
| | Brighton ... | rsc | bc | 35 | 39 | Trace | 1 | 4·0 |
| | Eastbourne† | bccsc | cbcb | 35 | 42 | - | Trace | 4·1 |
| | Hastings† ... | bcop.c | cbcb | 33 | 42 | - | 0·1 | 3·1 |
| | Folkestone ... | xcm. | cs.bc | 32 | 37 | - | Trace | 2·5 |
| | Dover... ... | cbcc | cbm | 34 | 37 | 1 | - | 2·6 |
| | Deal ... ... | bc | obcc | 34 | 38 | - | - | 2·3 |
| | Ramsgate ... | cbc | bcc | 34 | 38 | - | - | 1·4 |
| | Margate ... | bc | cbc | 35 | 39 | - | - | 1·1 |
| 2 | Southend ... | bbcc | bcb | 34 | 38 | - | - | 3·7 |
| | Maldon ... | brb | b | 34 | 38 | - | - | 4·1 |
| | Clacton-on-Sea | cps.bc | cbc | 33 | 36 | 1 | - | 4·4 |
| | Dovercourt ... | xbc | s.bc | 33 | 36 | - | Trace | 4·1 |
| | Lowestoft ... | cpSb | b | 31 | 34 | 1 | 1 | 2·9 |
| | Skegness ... | om.bc | ~~bccmb~~ Carmo | 31 | 38 | 1 | 1 | 2·1 |
| | Mablethorpe | csbcc | crs | 30 | 38 | 1 | 2 | 1·8 |
| | Cleethorpes ... | cts | Scho | 30 | 38 | 2 | 2 | 2·2 |
| 3 | Leamington S. | ocb | c | 33 | 39 | 2 | - | 3·0 |
| 4 | Cheltenham† | bmbcc | crsth | 32 | 44 | 1 | 0·3 | 2·9 |
| 5 | Bath ... ... | bcb | bcp.c | 35 | 42 | 2 | Trace | 3·9 |
| | Weymouth ... | rs.b | cbc | 36 | 42 | 0·1 | - | 1·8 |
| | Jersey ... | rcqpc | bcqpc | 38 | 46 | 5 | 1 | 2·4 |
| | Torquay ... | pbcq | cbcrh | 36 | 42 | 1 | 3 | 0·7 |
| | Penzance ... | bcir | cirh | 40 | 46 | 4 | 1 | 2·2 |
| | St. Ives ... | c | o | 41 | 46 | - | - | 0·0 |
| | Bude ... ... | cprh | prhbc | 38 | 45 | Trace | 2 | 1·0 |
| | Ilfracombe ... | o | bph | 41 | 45 | - | 1 | 0·0 |
| 6 | Aberystwyth | qtlph | qtlph | 36 | 43 | 5 | 6 | 0·3 |
| 7 | Llandudno ... | cprso | c | 36 | 43 | 1 | 1 | 0·1 |
| | Colwyn Bay... | cbcc | bcboo | 34 | 43 | 0·3 | 1 | 0·0 |
| | Rhyl ... ... | cbc | bcp.h | 37 | 45 | 5 | Trace | 0·5 |
| 8 | Wallasey ... | cps.c | bccb | 35 | 43 | 2 | Trace | 2·6 |
| | Southport‖ ... | bc | bbcphc | 34 | 42 | 3 | 0·1 | 3·2 |
| | Blackpool ... | cbc | bob | 35 | 42 | 3 | - | 3·1 |
| | Morecambe ... | scbo | b | 34 | 41 | 4 | - | 4·0 |
| 9 | Ilkley... ... | bbo | cps.b | 29 | 38 | 3 | Trace | 3·0 |
| 10 | Berwick-on-T. | cPs | tthc | 33 | 40 | 0·5 | 4 | 0·0 |
| 11 | Dunbar ... | oprs | cps. | 31 | 40 | Trace | 1 | 0·1 |
| 12 | Douglas ... | bcqob | cp.hbb | 33 | 43 | 3 | Trace | 4·1 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

## AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◯ Sky less than 1/10 clouded. ◐ Sky 1/10 to 5/10 clouded. ◑ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

## FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 30th Dec. 1931.

| Districts. | Forecasts |
|---|---|
| 1. S.E. England<br>2. E. England...<br>3. E. Midlands | Moderate to fresh northerly winds; local snow or sleet showers; bright intervals; cold, sharp frost at night. |
| 4. W. Midlands<br>5. S.W. England<br>6. South Wales<br>7. North Wales<br>8. N.W. England | Northerly winds, moderate to fresh, decreasing; local rain, hail or sleet showers; bright intervals; cold, sharp frost at night. |
| 9. N. Midlands<br>10. N.E. England<br>11. S.E. Scotland | As 1 - 3. |
| 12. S.W. Scotland & Isle of Man | As 4 - 8. |
| 13. A. W. Scotld. B. N.W. Scotland | Light northwest winds, backing; fine at first, becoming cloudy; cold, becoming milder. |
| 14. Mid-Scotland<br>15. N.E. Scotland<br>16. Orkneys and Shetlands. | Light to moderate northerly winds; local snow or sleet showers; bright intervals; cold; frost at night. |
| 17. N.W. Ireland<br>18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland | Moderate northerly winds, decreasing; local rain, hail, or sleet showers and bright intervals today, cloudy tomorrow; cold at first, becoming milder. |

### GENERAL INFERENCE.

A ridge of high pressure connects anticyclones to the north of Iceland and northeast of the Azores while a depression on the eastern Atlantic is travelling northeast towards Iceland. Cold weather with local snow or sleet showers will continue in eastern districts but conditions will become gradually milder in the northwest and extreme west.

### FURTHER OUTLOOK.

Becoming milder in the West and Northwest, and not so cold elsewhere.

Forecasts issued at 0955 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

...e's Projection Scale 1 : 4 x 10⁷ along meridian at 55°N.

Statute Miles 0 1 2 3 4 500

## EXPLANATION OF CHART.

...ETRS. Isobars are drawn for intervals of four millibars.

... Arrows fly with the wind. Number of feathers indicate Beaufort Force.

... Calm.

...ERATURE is given in degrees F.

...THER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 30th December 1931.

No. 25605

### OBSERVATIONS at 1 hr. G.M.T. 30th December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1002.0 | +22 | NW | 3 | c | 33 | 95 | 6 | 5 | - | - | 7-8 | 7-8 | 1500 |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot (S'thmtn) | 8 | 1003.6 | +22 | NW'N | 4 | b | 34 | 75 | 7 | - | - | - | 0 | 0 | - |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 999.6 | +22 | NNW | 5 | c | 33 | 95 | 6 | 5 | - | - | 7-8 | 7-8 | 1500 |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 997.3 | +28 | NE'N | 5 | c/prs | 35 | 95 | 7 | 9 | - | - | 7-8 | 7-8 | 1500 |
| | Cranwell | 240 | 1002.3 | +26 | NW'N | 5 | ps. | 33 | 95 | 6 | 6 | - | - | 4-6 | 4-6 | 800 |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1004.8 | +16 | NW'N | 3 | b | 39 | 85 | 8 | - | - | - | 0 | 0 | - |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1008.6 | +12 | N'W | 4 | bc | 40 | 85 | 8 | 2 | 3 | - | 2-3 | 4-6 | 4000 |
| | Scilly (St. Mary's) | 163 | 1008.2 | +20 | N'E | 6 | bc | 43 | 85 | 8 | 2 | - | - | 4-6 | 4-6 | 4000 |
| | Guernsey | 175 | 1005.3 | +22 | NNE | 5 | bc | 41 | 65 | 8 | 2 | - | - | 4-6 | 4-6 | 2500 |
| 6 | Pembroke | 142 | 1007.6 | +10 | NNW | 2 | b | 39 | 95 | 7 | 6 | 2 | - | 4-6 | 9 | 800 |
| 7 | Holyhead | 26 | 1008.7 | +20 | NNE | 6 | cq | 43 | 75 | 8 | 4 | - | - | 7-8 | 7-8 | 2500 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1000.4 | +12 | N'E | 7 | cq | 36 | 95 | 7 | 3 | 9 | - | 4-6 | 7-8 | 2500 |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1003.2 | +20 | NW | 3 | bc/rs | 35 | 95 | 7 | 2 | - | - | 4-6 | 4-6 | 2500 |
| 11 | Inchkeith | 190 | 1007.3 | +14 | NW | 3 | b | 35 | 85 | 8 | 5 | - | - | 1 | 1 | 2500 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1010.8 | +14 | NNE | 2 | bc/ph | 36 | 85 | 8 | 9 | 7 | - | 4-6 | 4-6 | 2500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1005.4 | +12 | N | 6 | bc | 38 | 75 | 8 | 8 | 1 | 1 | 4-6 | 4-6 | 2500 |
| 16 | Lerwick | 54 | 1002.6 | +6 | N | 3 | c | 37 | 85 | 7 | 5 | 2 | - | 4-6 | 7-8 | 1500 |
| 17 | Blacksod Point | 18 | 1016.5 | +10 | N | 7 | PH | 41 | 85 | 8 | 9 | - | - | 9 | 9 | 150 |
| 18 | Malin Head | 52 | 1011.9 | +20 | N'E | 5 | c | 43 | 85 | 8 | 2 | - | - | 7-8 | 7-8 | 2500 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1016.2 | +10 | N | 6 | PHR | 42 | 95 | 6 | 9 | - | - | 10 | 10 | 800 |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 30th December

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1006.9 | +26 | NNW | 3 | bc | 33 | 85 | 6 | 8 | - | - | 2-3 | 2-3 | 1500 | 4 | * |
| | Croydon | 1006.4 | +24 | N | 4 | c | 33 | 85 | 6 | 6 | - | - | 9+ | 9+ | 1500 | 1 | * |
| | S. Farnborough | 1007.3 | +20 | NW | 2 | c | 30 | 85 | 7 | 5 | - | - | 7-8 | 7-8 | 4000 | 4 | * |
| | Winchester | 1007.6 | +20 | NNW | 4 | b | 31 | 85 | 8 | - | - | - | 0 | 0 | - | 4 | * |
| | Boscombe Down | 1008.6 | +20 | N | 4 | b | 32 | 85 | 7 | - | 3 | - | 0 | Tr. | - | 1 | * |
| | Calshot (S'thmtn) | 1007.1 | +22 | NW'N | 4 | b | 35 | 75 | 7 | - | - | - | 0 | 0 | - | 0 | 3 |
| | Dungeness | * | * | NNW | 3 | bc | * | * | 7 | 2 | - | * | 2-3 | 2-3 | 2500 | * | 1 |
| | Lympne | 1004.4 | +30 | NNW | 5 | c | 32 | 95 | 5 | 5 | - | - | 9 | 9 | 800 | 6 | * |
| 2 | Shoeburyness | 1005.5 | +20 | NNW | 3 | b | 32 | 95 | 8 | 5 | - | - | 1 | 1 | 2500 | 6 | * |
| | Felixstowe | 1003.6 | +50 | N'W | 4 | bc | 33 | 95 | 8 | 5 | - | - | 4-6 | 4-6 | 4000 | 8 | 2 |
| | Gorleston | 1002.4 | +28 | NNE | 5 | ph(r) | 38 | 65 | 7 | 9 | - | - | 4-6 | 4-6 | 1500 | 1 | 3 |
| | Cranwell | 1006.4 | +24 | NW | 5 | bc | 31 | 95 | 6 | 5 | - | - | 4-6 | 4-6 | 800 | 6 | * |
| 3 | Birmingham | 1008.2 | +16 | NNW | 4 | b | 32 | 85 | 6 | - | - | - | 0 | 0 | - | 6 | * |
| | Upper Heyford | 1008.3 | +26 | NNE | 3 | bc | 30 | 85 | 7 | 5 | 3 | - | 1 | 2-3 | 2500 | 6 | * |
| | Leafield | 1007.7 | +14 | NW'N | 4 | b | 29 | 95 | 8 | 4 | - | - | Tr. | Tr. | 2500 | 6 | * |
| 4 | Ross-on-Wye | 1009.3 | +12 | N | 2 | b | 33 | 85 | 7 | - | - | - | 0 | 0 | - | 4 | * |
| 5 | Portland Bill | 1008.9 | +20 | NNW | 3 | bc | 36 | 85 | 8 | 4 | - | - | 2-3 | 2-3 | 2500 | 0 | 2 |
| | Plymouth | 1009.9 | +12 | N | 5 | c | 37 | 75 | 7 | - | - | 4 | 0 | 7-8 | - | 5 | 1 |
| | Falmouth | 1010.7 | +6 | N | 4 | q | 40 | 86 | 8 | 3 | - | - | 4-6 | 4-6 | 4000 | 1 | 2 |
| | Scilly (St. Mary's) | 1012.2 | +12 | N | 6 | bc | 43 | 85 | 8 | 2 | - | - | 2-3 | 2-3 | 4000 | 1 | 5 |
| | Guernsey | 1008.5 | +20 | NNE | 5 | bc | 41 | 65 | 9 | 8 | - | - | 4-6 | 4-6 | 2500 | 0 | 3 |
| 6 | Pembroke | 1011.4 | +20 | NE | 23 | pr | 37 | 95 | 7 | 6 | 6 | - | 4-6 | 7-8 | 800 | 1 | 2 |
| 7 | Holyhead | 1011.3 | +14 | NNE | 6 | bcjp | 42 | 75 | 8 | 2 | - | - | 4-6 | 4-6 | 1500 | 1 | 3 |
| | Chester (Sealand) | 1009.9 | +18 | NNW | 3 | b | 35 | 75 | 8 | - | - | - | 0 | 0 | - | 1 | * |
| 8 | L'pool (Bidston) | 1010.1 | +16 | N'W | 4 | b | 37 | 65 | 9 | 1 | - | - | Tr. | Tr. | 4000 | 0 | * |
| 9 | Harrogate | 1008.6 | +14 | W'N | 2 | b | 31 | 95 | 7 | 3 | - | 8 | Tr. | 1 | 2500 | 8 | * |
| 10 | Spurn Head | 1004.6 | +8 | N'W | 5 | q | 35 | 95 | 7 | 3 | 4 | - | 2-3 | 7-8 | 4000 | 5 | 5 |
| | Catterick | 1007.4 | +12 | NNW | 5 | bc | 32 | 85 | 8 | 5 | - | - | 4-6 | 4-6 | 4000 | 6 | * |
| | Tynemouth | 1006.5 | +6 | NNW | 3 | bc | 34 | 85 | 7 | 2 | - | - | 4-6 | 4-6 | 2500 | 8 | 2 |
| 11 | Inchkeith | 1009.7 | +16 | NW | 3 | b | 35 | 85 | 8 | 5 | - | - | 1 | 1 | 2500 | 0 | 2 |
| | Leuchars | 1009.1 | +8 | NW | 3 | b | 34 | 75 | 8 | 4 | 6 | - | Tr. | Tr. | 4000 | 5 | * |
| 12 | Renfrew | 1011.7 | +16 | WNW | 2 | b | 29 | 85 | 8 | 5 | - | - | Tr. | Tr. | 2500 | 4 | * |
| | Eskdalemuir | 1009.4 | +10 | NNW | 5 | b | 31 | 75 | 8 | - | - | - | 0 | 0 | - | 7 | * |
| 13A | Tiree | 1013.1 | +8 | N | 6 | bc | 40 | 75 | 8 | 8 | 6 | - | 4-6 | 4-6 | 2500 | 0 | 4 |
| 13B | Stornoway | 1012.8 | +10 | N | 2 | bc | 35 | 95 | 8 | 1 | - | - | 2-3 | 2-3 | 2500 | 6 | 1 |
| 15 | Dalwhinnie | 1014.0 | +18 | N | 3 | bc | 29 | 75 | 8 | 7 | - | - | 4-6 | 4-6 | 2500 | 9 | * |
| | Aberdeen | 1007.0 | +16 | NW | 4 | psh | 34 | 85 | 6 | 3 | - | - | 7-8 | 7-8 | 1500 | 6 | 2 |
| | Wick | 1007.5 | +16 | N | 6 | bc | 37 | 65 | 8 | 8 | 1 | - | 2-3 | 4-6 | 2500 | 1 | 4 |
| 16 | Lerwick | 1003.8 | +10 | N | 4 | r.s. | 34 | 85 | 6 | 6 | - | - | 10 | 10 | 800 | 1 | * |
| 17 | Blacksod Point | 1017.5 | +6 | N | 6 | PH(R) | 41 | 75 | 8 | 9 | - | - | 4-6 | 4-6 | 2150 | 1 | 4 |
| 18 | Malin Head | 1014.5 | +8 | N | 4 | bcjp | 40 | 85 | 8 | 9 | 8 | - | 4-6 | 4-6 | 2500 | 1 | 4 |
| | Aldergrove | 1013.7 | +18 | WNW | 2 | bc/ps | 33 | 95 | 8 | 3 | - | - | 2-3 | 2-3 | 800 | 5 | * |
| | Donaghadee | 1012.8 | +18 | NNE | 4 | bc | 42 | 65 | 7 | 9 | - | - | 4-6 | 4-6 | 1500 | 0 | 3 |
| 19 | Birr Castle | 1015.4 | +8 | NW | 1 | bc | 31 | 95 | 8 | - | 4 | - | 0 | 2-3 | - | 1 | * |
| 20 | Valentia Obsy.† | 1018.4 | +6 | N | 5 | PS | 39 | 85 | 8 | 9 | - | - | 9+ | 9+ | 1500 | 1 | * |
| | Roches Point | 1015.8 | +14 | N | 4 | bc | 38 | 85 | 8 | 5 | - | - | 2-3 | 2-3 | 1500 | 0 | 3 |

### PAST 24 HOURS.

| District | Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F (32) | Temperature Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 29th Hrs. (36) |
|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 38 | 32 | 28 | 1 | 0.2 | 2.9 |
| | Croydon | 37 | 33 | 30 | 0.6 | Tr. | 3.2 |
| | S. Farnborough | 40 | 30 | 24 | 1 | 0.1 | 5.0 |
| | Winchester | 39 | 31 | 29 | 0.1 | Tr. | 4.2 |
| | Boscombe Down | 39 | 30 | 28 | 0.2 | - | * |
| | Calshot (S'thmtn) | 41 | 29 | 28 | 0.1 | - | 4.2 |
| | Dungeness | 37 | 30 | * | - | 0.3 | * |
| | Lympne | 36 | 30 | 26 | Tr | 0.3 | 2.3 |
| 2 | Shoeburyness | 38 | 31 | 29 | - | 0.2 | 4.1 |
| | Felixstowe | 37 | 31 | 26 | Tr | 1 | 3.8 |
| | Gorleston | 37 | 33 | 32 | 2 | 1 | 3.2 |
| | Cranwell | 37 | 30 | 28 | 1 | 0.1 | 2.5 |
| 3 | Birmingham | 37 | 31 | 26 | Tr | - | 3.4 |
| | Upper Heyford | 37 | 29 | 25 | 1 | 0.1 | * |
| | Leafield | 36 | 28 | 24 | 0.3 | - | 4.5 |
| 4 | Ross-on-Wye | 40 | 32 | 21 | 0.1 | - | 3.2 |
| 5 | Portland Bill | 42 | 35 | * | 0.4 | - | * |
| | Plymouth | 44 | 34 | 28 | 2 | 1 | 2.1 |
| | Falmouth | 45 | 40 | * | 5 | 2 | 2.8 |
| | Scilly (St. Mary's) | 46 | 37 | * | 1 | 2 | 4.5 |
| | Guernsey | 44 | 41 | 33 | 1 | - | 2.0 |
| 6 | Pembroke | 44 | 36 | * | - | 15 | 1.7 |
| 7 | Holyhead | 44 | 40 | 35 | 0.4 | 0.2 | 0.5 |
| | Chester (Sealand) | 42 | 34 | 29 | 0.5 | - | 2.2 |
| 8 | L'pool (Bidston) | 43 | 37 | 34 | Tr | - | 2.9 |
| 9 | Harrogate | 37 | 31 | 26 | 1 | 0.2 | 3.0 |
| 10 | Spurn Head | 39 | 34 | * | 3 | 1 | 2.3 |
| | Catterick | 39 | 31 | 26 | 1 | 2 | * |
| | Tynemouth | 42 | 32 | 29 | 5 | 7 | * |
| 11 | Inchkeith | 38 | 33 | 29 | Tr | - | 3.2 |
| | Leuchars | 39 | 31 | 25 | 3 | 1 | 2.2 |
| 12 | Renfrew | 40 | 27 | 18 | - | - | 4.9 |
| | Eskdalemuir | 35 | 29 | 23 | Tr | Tr. | 4.9 |
| 13A | Tiree | 43 | 37 | 35 | 4 | 1 | 0.3 |
| 13B | Stornoway | 41 | 33 | * | 2 | 0.2 | 0.4 |
| 15 | Dalwhinnie | 34 | 28 | 27 | 2 | 2 | 0.0 |
| | Aberdeen | 38 | 33 | 32 | 6 | 4 | 1.6 |
| | Wick | 41 | 33 | * | 2 | 1 | * |
| 16 | Lerwick | 41 | 34 | * | 3 | 2 | 0.5 |
| 17 | Blacksod Point | 44 | 38 | * | 2 | 5 | * |
| 18 | Malin Head | 44 | 36 | * | 2 | 2 | 1.1 |
| | Aldergrove | 40 | 30 | 22 | 1 | 0.1 | 2.4 |
| | Donaghadee | 44 | 40 | * | - | - | * |
| 19 | Birr Castle | 39 | 30 | 23 | 1 | - | 1.7 |
| 20 | Valentia Obsy.† | 45 | 38 | 34 | 6 | 4 | 0.8 |
| | Roches Point | 43 | 36 | * | - | - | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon (24 hrs. ended 9h.) | Weather Night (24 hrs. ended 9h.) | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. (Yesterday.) | Humidity 15h. G.M.T. % (Yesterday.) | Humidity 9h. G.M.T. % (To-day.) | Visibility 9h. (To-day.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew | 18 | c55b3p | b3.0m | obr bm | 38 | 32 | 28 | 1 | 0.2 | 2.9 | * | * | 6 |
| Croydon | 217 | as.sp bc | b3.0m | cirs.b | 37 | 33 | 30 | 0.6 | Tr. | 3.2 | * | * | 4 |
| Greenwich (Royal Observatory) | 149 | 5cm | bcmf | cdbc.f.m | 37 | 33 | 27 | Tr. | Tr. | 1.2 | 70 | 91 | 4 |
| City (Bunhill Row) | — | * | * | * | * | * | * | * | * | 2.4 | * | * | * |
| Westminster (St. James' Park) | 27 | * | * | * | 38 | 33 | 28 | 1 | | 2.7 | 66 | 86 | * |
| Regents Pk. (Botanic Gardens) | 168 | * | * | * | * | * | * | * | * | | * | * | * |
| Camden Square | 110 | c.s.s b | bc | * | 38 | 33 | 29 | 0.3 | Tr. | * | * | 85 | * |
| Kensington | 80 | as bcm | bcm | * | 39 | 33 | 27 | 1 | - | 2.5 | At 18h. 80 | 81 | * |
| Hampstead Observatory | 450 | as r | bc | bcx | 36 | 28 | 22 | 2 | Tr. | 2.8 | * | 86 | * |

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 30th

| South Kensington Max. | Time. | Min. | Time. | Kew Observatory Max. | Time. | Min. | Time. |
|---|---|---|---|---|---|---|---|
| 1.0 | 15h 29th | Nil | 0-6h 30th | 0.2 | 17h 29th | 0.1 | 7h 30th |

### FOREIGN OBSERVATIONS.

18h. G.M.T. 29th December

| Stations | Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. |
|---|---|---|---|---|---|
| Paris | 997.9 | WNW | 4 | o | 34 |
| Brussels | 993.9 | WSW | 2 | o | 32 |
| Berlin | 988.1 | SW'W | 4 | s.s. | 34 |
| Zürich | 1001.2 | W | 1 | s.s | 30 |
| Rome | 1003.4 | W | 5 | c | 62 |

7h. G.M.T. 30th December

| Stations | Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day. mm. | Rainfall Night. mm. |
|---|---|---|---|---|---|---|---|---|---|
| Paris | 1002.5 | WNW | 4 | o | 34 | 39 | 32 | 2 | 0.2 |
| Brussels | 1000.0 | NNW | 2 | bc | ? | 37 | ? | - | ? |
| Berlin | 994.9 | SW | 4 | c | 32 | 39 | 32 | 1 | Tr. |
| Zürich | 1004.9 | WSW | 2 | bc | ? | 41 | 28 | 2 | 1 |
| Rome | 1001.3 | S | 6 | c | 50 | 54 | 34 | - | Tr. |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13-18 | 9 | 47-54 |
| 1 | 1-3 | 5 | 19-24 | 10 | 55-63 |
| 2 | 4-7 | 6 | 25-31 | 11 | 64-75 |
| 3 | 8-12 | 7 | 32-38 | 12 | 75 |
| | | 8 | 39-46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | | Objects not visible at |
|---|---|---|
| 0 | Dense fog | 55 yards. |
| 1 | Thick fog | 220 " |
| 2 | Fog | 550 " |
| 3 | Moderate fog | 1,100 " |
| 4 | Mist or haze | 1½ miles. |
| 5 | Poor visibility | 2½ " |
| 6 | Moderate " | 6½ " |
| 7 | Good " | 12½ " |
| 8 | Very good " | 31 " |
| 9 | Excellent " | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | | | |
|---|---|---|---|
| 0 | Calm. | 5 | Very rough. |
| 1 | Smooth. | 6 | High. |
| 2 | Slight. | 7 | Very high. |
| 3 | Moderate. | 8 | Precipitous. |
| 4 | Rough. | 9 | Confused. |

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr observations are from Valentia W/T station.

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 31st December 1931.

No. 25606

### OBSERVATIONS at 13h. G.M.T. 30th December

| District | Stations (For heights see p. 4.) | Barom. at M.S.L. mb. (1) | Change in 3 hours. (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather. (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud Form Low. (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1010.0 | +6 | NNW | 4 | b | 37 | 65 | 6 | – | – | – | 0 | 0 | – |
| | Croydon | 1009.6 | +4 | NW'N | 3 | b | 36 | 75 | 4 | 5 | – | – | 1 | 1 | 2500 |
| | S. Farnborough | 1010.4 | 0 | NW | 2 | b | 37 | 65 | 6 | 1 | – | – | Tr | Tr | 2500 |
| | Winchester | 1011.0 | +2 | NNW | 4 | b | 37 | 75 | 7 | 7 | – | – | Tr | Tr | 4000 |
| | Boscombe Down | 1011.5 | +2 | NNW | 4 | bc | 36 | 75 | 6 | 1 | 3 | – | 1 | 2.3 | 4000 |
| | Calshot, S'thmtn | 1010.8 | +2 | NNW | 5 | b | 39 | 75 | 6 | – | – | – | 0 | 0 | – |
| | Dungeness | * | * | NNW | 3 | bc | * | * | 7 | 1 | 6 | x | 2.3 | 2.3 | 2500 |
| | Lympne | 1008.8 | +14 | NNW | 5 | c | 35 | 85 | 6 | 5 | – | – | 9 | 9 | 800 |
| 2 | Shoeburyness | 1008.5 | +4 | NNW | 3 | b | 36 | 85 | 7 | – | – | 8 | 0 | 1 | – |
| | Felixstowe | 1007.9 | +6 | N'W | 3 | bc | 33 | 85 | 7 | 4 | – | 2 | 4.6 | 4.6 | 4000 |
| | Gorleston | 1006.7 | −2 | NW | 3 | bc | 39 | 85 | 6 | 9 | – | – | 4.6 | 4.6 | 1500 |
| | Cranwell | 1009.0 | +2 | NW'W | 4 | bc | 34 | 85 | 6 | – | 3 | – | 0 | 2.3 | – |
| 3 | Birmingham | 1011.3 | +4 | NNW | 4 | b | 36 | 75 | 6 | – | – | – | 0 | 0 | – |
| | Upper Heyford | 1011.4 | +8 | NW | 4 | b | 35 | 75 | 5 | 5 | – | – | 1 | 1 | 2500 |
| | Leafield | 1010.8 | +10 | NW'N | 4 | b | 34 | 75 | 6 | 5 | – | – | Tr | Tr | 4000 |
| 4 | Ross-on-Wye | 1012.1 | +6 | NW | 2 | b | 39 | 65 | 8 | 1 | – | 8 | 1 | 1 | 4000 |
| 5 | Portland Bill | 1011.2 | +2 | NNW | 4 | bc | 41 | 75 | 8 | 1 | – | – | 2.3 | 2.3 | 2500 |
| | Plymouth | 1013.3 | +6 | NW | 5 | c | 41 | 75 | 7 | 7 | – | 8 | 4.6 | 7.8 | 1500 |
| | Falmouth | 1014.2 | 0 | N | 3 | bc | 43 | 65 | 8 | 3 | 7 | – | 2.3 | 4.6 | 4000 |
| | Scilly (St. Mary's) | 1015.6 | +10 | N | 5 | bc/pr | 45 | 85 | 8 | 2 | – | – | 4.6 | 4.6 | 4000 |
| | Guernsey | 1011.7 | +6 | N | 5 | bc | 42 | 65 | 8 | 8 | – | – | 4.6 | 4.6 | 2500 |
| 6 | Pembroke | 1013.9 | +12 | NNE | 2 | ph(r) | 39 | 85 | 7 | 6 | 6 | – | 4.6 | 7.8 | 800 |
| 7 | Holyhead | 1013.7 | +8 | N | 5 | pr | 40 | 75 | 9 | 3 | – | – | 9+ | 9+ | 1500 |
| | Chester (Sealand) | 1012.7 | +2 | NNW | 3 | bc | 40 | 65 | 6 | 8 | – | – | 2.3 | 2.3 | 2500 |
| 8 | L'pool (Bidston) | 1012.3 | +8 | N'W | 4 | bc | 39 | 55 | 9 | 1 | – | 5 | 2.3 | 4.6 | 4000 |
| 9 | Harrogate | 1009.7 | +6 | WNW | 3 | b | 34 | 65 | 9 | – | 4 | – | 0 | Tr | – |
| 10 | Spurn Head | 1004.7 | 0 | NNW | 7 | ~~bs~~ | 34 | 95 | 5 | 6 | – | – | 10 | 10 | 1500 |
| | Catterick | 1010.1 | +6 | NNW | 5 | b | 35 | 75 | 8 | 2 | 3 | – | 1 | 1 | 2500 |
| | Tynemouth | 1009.2 | +6 | NNW | 3 | bc | 36 | 75 | 7 | 2 | – | – | 2.3 | 2.3 | 2500 |
| 11 | Inchkeith | 1012.7 | +10 | NW | 4 | bc | 35 | 75 | 8 | 7 | 4 | – | 1 | 2.3 | 4000 |
| | Leuchars | 1011.7 | +6 | NW | 4 | b | 35 | 55 | 9 | 1 | – | 1 | Tr | Tr | 4000 |
| 12 | Renfrew | 1014.5 | +4 | N'W | 3 | bc | 36 | 65 | 8 | – | 4 | 1 | 0 | 2.3 | – |
| | Eskdalemuir | 1012.2 | +4 | NNW | 5 | b | 32 | 65 | 8 | – | 4 | 1 | 0 | 1 | – |
| 13A | Tiree | 1015.3 | +4 | N | 4 | bc | 40 | 45 | 8 | 7 | 6 | 8 | 1 | 4.6 | 4000 |
| 13B | Stornoway | 1014.9 | +6 | N | 2 | ps | 33 | 95 | 5 | 9 | – | – | 10 | 10 | 800 |
| 15 | Dalwhinnie | 1013.9 | +8 | N | 2 | bc | 27 | 65 | 8 | 1 | 1 | – | 1 | 2.3 | 4000 |
| | Aberdeen | 1009.3 | 0 | NNW | 4 | bc/ps | 34 | 85 | 7 | 3 | – | 3 | 4.6 | 4.6 | 1500 |
| | Wick | 1010.1 | +2 | NW | 6 | bc | 33 | 85 | 8 | 8 | 1 | 8 | 4.6 | 8 | 2500 |
| 16 | Lerwick | 1006.3 | +10 | N | 6 | o/rs | 35 | 75 | 6 | 6 | – | – | 10 | 10 | 800 |
| 17 | Blacksod Point | 1019.8 | +4 | N | 5 | oh | 40 | 95 | 9 | 9 | – | – | 4.6 | 4.6 | 1500 |
| 18 | Malin Head | 1016.7 | +4 | N | 4 | bc/p | 41 | 65 | 8 | 3 | 5 | – | 2.3 | 4.6 | 2500 |
| | Aldergrove | 1016.2 | +12 | W'N | 2 | bc | 35 | 95 | 8 | 3 | – | – | 2.3 | 2.3 | 1500 |
| | Donaghadee | 1014.7 | +4 | NNE | 4 | bc | 40 | 65 | 7 | 9 | – | – | 4.6 | 4.6 | 1500 |
| 19 | Birr Castle | 1017.7 | +8 | N | 1 | b | 37 | 85 | 8 | 1 | – | – | 1 | 1 | 4000 |
| 20 | Valentia Obsy. | 1020.1 | +6 | N | 3 | c | 43 | 75 | 8 | 8 | – | – | 7.8 | 7.8 | 2500 |
| | Roches Point | 1017.9 | +6 | N | 3 | bc | 40 | 95 | 8 | 5 | – | 1 | 2.3 | 4.6 | 2500 |

### OBSERVATIONS at 18h. G.M.T. 30th December

| District | Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours. (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather. (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud Form Low. (23) | Cloud Form Med. (24) | Cloud Form High. (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 1012.7 | +20 | NW | 2 | bc | 35 | 75 | 6 | 7 | – | – | 4.6 | 4.6 | 4000 | 4 | * |
| | Croydon | 1012.3 | +20 | NW'N | 3 | bc | 35 | 75 | 5 | 5 | 3 | – | 4.6 | 4.6 | 2500 | 1 | * |
| | S. Farnborough | 1013.3 | +22 | WNW | 1 | b | 31 | 75 | 5 | – | – | – | 0 | 0 | – | 4 | * |
| | Winchester | 1013.5 | +20 | NW | 3 | b | 30 | 85 | 7 | – | – | – | 0 | 0 | – | 1 | * |
| | Boscombe Down | 1014.0 | +20 | NNW | 4 | b | 32 | 85 | 7 | – | – | – | 0 | 0 | – | 0 | * |
| | Calshot, S'thmtn | 1013.5 | +22 | W'N | 3 | b | 33 | 85 | 7 | 5 | – | – | Tr | Tr | 4000 | 0 | 1 |
| | Dungeness | * | * | SW | 2 | bc | * | * | 6 | 5 | – | * | 2.3 | 2.3 | 1500 | * | 1 |
| | Lympne | 1011.2 | +16 | WNW | 3 | bc | 32 | 85 | 5 | 5 | 2 | – | 2.3 | 4.6 | 2500 | 5 | * |
| 2 | Shoeburyness | 1010.8 | +10 | NNW | 3 | b | 35 | 75 | 7 | – | – | – | 0 | 0 | – | 0 | * |
| | Felixstowe | 1009.2 | +8 | NW'N | 4 | bc | 35 | 85 | 7 | 5 | – | – | 4.6 | 4.6 | 4000 | 6 | 3 |
| | Gorleston | 1007.2 | +6 | NW'N | 3 | ir | 35 | 95 | 6 | 9 | – | – | 9 | 9 | 1500 | 1 | 3 |
| | Cranwell | 1011.7 | +22 | NW | 4 | b | 30 | 85 | 6 | – | – | – | 0 | 0 | – | 6 | * |
| 3 | Birmingham | 1013.9 | +16 | NW | 3 | b | 33 | 75 | 6 | – | – | 1 | 0 | Tr | – | 6 | * |
| | Upper Heyford | 1014.1 | +26 | NNW | 2 | b | 31 | 75 | 4 | – | – | – | 0 | 0 | – | 6 | * |
| | Leafield | 1013.1 | +14 | NNW | 2 | b | 29 | 85 | 6 | 5 | – | – | Tr | Tr | 4000 | 6 | * |
| 4 | Ross-on-Wye | 1014.4 | +12 | NNW | 2 | bc | 35 | 65 | 7 | 5 | – | – | 2.3 | 2.3 | 4000 | 1 | * |
| 5 | Portland Bill | 1014.2 | +14 | NNW | 2 | bc | 38 | 75 | 8 | 4 | 4 | – | 1 | 2.3 | 2500 | 0 | 2 |
| | Plymouth | 1015.4 | +14 | NNW | 3 | b | 39 | 75 | 6 | 8 | – | – | 1 | 1 | 2500 | 1 | 1 |
| | Falmouth | 1016.7 | +8 | NE'N | 4 | pr | 37 | 95 | 8 | 3 | 2 | – | 4.6 | 4.6 | 4000 | 1 | 2 |
| | Scilly (St. Mary's) | 1017.5 | +18 | N | 5 | bc | 43 | 75 | 8 | 2 | – | – | 4.6 | 4.6 | 4000 | 1 | 4 |
| | Guernsey | 1014.4 | +15 | NNE | 2 | bc | 41 | 75 | 8 | 8 | – | – | 4.6 | 4.6 | 2500 | 0 | 2 |
| 6 | Pembroke | 1015.6 | +14 | NNE | 1 | c | 36 | 95 | 7 | 8 | 6 | – | 4.6 | 7.8 | 800 | 6 | 1 |
| 7 | Holyhead | 1016.0 | +20 | NNE | 6 | bc | 40 | 55 | 8 | 2 | – | – | 2.3 | 2.3 | 2500 | 1 | 3 |
| | Chester (Sealand) | 1015.2 | +20 | NNW | 3 | bc | 32 | 75 | 6 | 2 | – | – | 2.3 | 2.3 | 2500 | 0 | * |
| 8 | L'pool (Bidston) | 1015.0 | +10 | N | 4 | b | 36 | 55 | 8 | 1 | – | – | Tr | Tr | 4000 | 0 | * |
| 9 | Harrogate | 1013.3 | +14 | NW | 3 | b | 30 | 65 | 7 | – | – | – | 0 | 0 | – | 8 | * |
| 10 | Spurn Head | 1008.7 | +4 | NW'N | 7 | bc | 34 | 85 | 7 | 6 | – | – | 2.3 | 2.3 | 2500 | 5 | 5 |
| | Catterick | 1013.2 | +20 | NNW | 5 | b | 31 | 75 | 8 | 4 | – | – | Tr | Tr | 4000 | 6 | * |
| | Tynemouth | 1011.9 | +20 | NW | 3 | bc | 32 | 75 | 7 | 2 | – | – | 2.3 | 2.3 | 2500 | 6 | 3 |
| 11 | Inchkeith | 1015.1 | +10 | NW | 4 | bc | 33 | 75 | 8 | 5 | – | – | 2.3 | 2.3 | 2500 | 0 | 3 |
| | Leuchars | 1014.3 | +18 | W | 3 | b | 30 | 75 | 9 | 4 | – | 1 | 1 | 1 | 4000 | 5 | * |
| 12 | Renfrew | 1016.2 | +10 | WSW | 1 | b | 28 | 75 | 8 | 5 | – | – | 1 | 1 | 4000 | 4 | * |
| | Eskdalemuir | 1015.4 | +14 | NW'N | 4 | b | 28 | 65 | 8 | – | – | – | 0 | 0 | – | 7 | * |
| 13A | Tiree | 1015.9 | +4 | NW'W | 3 | bc/p | 38 | 75 | 8 | 3 | 6 | 8 | 2.3 | 4.6 | 2500 | 0 | 2 |
| 13B | Stornoway | 1014.0 | +4 | – | 0 | bc | 31 | 95 | 7 | 9 | – | – | 4.6 | 4.6 | 1500 | 7 | 0 |
| 15 | Dalwhinnie | 1016.7 | +8 | NW | 3 | is | 27 | 75 | 6 | 5 | 8 | – | 4.6 | 7.8 | 1500 | 9 | * |
| | Aberdeen | 1011.6 | +14 | NW | 3 | b | 32 | 65 | 8 | 5 | – | – | 1 | 1 | 2500 | 8 | 2 |
| | Wick | 1011.2 | +12 | NW | 6 | q | 30 | 95 | 8 | 8 | 8 | 8 | Tr | 4.6 | 2500 | 8 | 3 |
| 16 | Lerwick | 1007.6 | +4 | N'W | 3 | bc | 34 | 85 | 7 | 5 | – | – | 2.3 | 2.3 | 1500 | 8 | * |
| 17 | Blacksod Point | 1019.2 | 0 | N | 2 | pr | 38 | 95 | 7 | 3 | – | – | 4.6 | 4.6 | 450 | 0 | 2 |
| 18 | Malin Head | 1016.9 | +4 | W | 4 | bc/p | 39 | 85 | 8 | 3 | – | – | 2.3 | 2.3 | 2500 | 0 | 4 |
| | Aldergrove | 1018.0 | +14 | SW'S | 2 | bc | 31 | 85 | 7 | – | 3 | – | 0 | 2.3 | – | 6 | * |
| | Donaghadee | 1016.8 | +8 | N | 3 | bc | 38 | 65 | 7 | 9 | – | – | 4.6 | 4.6 | 1500 | 0 | 2 |
| 19 | Birr Castle | 1019.6 | +8 | NW | 1 | c | 35 | 95 | 8 | 4 | – | – | 9 | 9 | 2500 | 1 | * |
| 20 | Valentia Obsy. | 1021.1 | +10 | ENE | 1 | bc/pr | 37 | 95 | 8 | 9 | – | – | 2.3 | 2.3 | 1500 | 1 | 4 |
| | Roches Point | 1019.8 | +14 | N | 3 | bc | 39 | 85 | 8 | 5 | – | – | 2.3 | 2.3 | 1500 | 0 | 2 |

### PAST 24 HOURS. WEATHER.

| District | Stations | 7h.–13h. 30m. (37) | 13h.–18h. 30m. (38) | 18h. 30m.–1h. 31st. (39) | 1h.–7h. 31st. (40) |
|---|---|---|---|---|---|
| 1 | London (Kew) | c3 b3 b3 | bbc3 | b bx | b3 x |
| | Croydon | cs bm | bmbcm | bcbm x | bm x |
| | S. Farnborough | cps bcb | b3 | bm bx | bxbex |
| | Winchester | bxbcb | b bx | bx | bbcexm |
| | Boscombe Down | bbm | bmb | b | b, cm |
| | Calshot, S'thmtn | b | bm | bx | bx bex |
| | Dungeness | bc | b | * | bc |
| | Lympne | bccm | bccm x | cbcbx | bxm |
| 2 | Shoeburyness | bcb | b | b bxx | bx |
| | Felixstowe | bc | bc | bps bcb | bbc |
| | Gorleston | bephq | cosrh | or v s q | cosrq |
| | Cranwell | bcm | bcm | bm | bm 3 |
| 3 | Birmingham | b | b | b | bbc |
| | Upper Heyford | bm | bm | bm | becis |
| | Leafield | b | b | b | bbec |
| 4 | Ross-on-Wye | b | bbc | bccb | bxc |
| 5 | Portland Bill | bc-bc | bc-bc | bc,b | bbc |
| | Plymouth | bc | bcbm | bm x | bcm x |
| | Falmouth | bcfq | bcf | bcPfq | bc |
| | Scilly (St. Mary's) | bcf | bc | bcbbc | bc |
| | Guernsey | cbc | bc | qoir | opr bc |
| 6 | Pembroke | cph | cphr | cph | bcc |
| 7 | Holyhead | bcpphpr | phq | bc,ph | c |
| | Chester (Sealand) | bbc3 | bc3 | bx | bxssF |
| 8 | L'pool (Bidston) | bvby | bcvby | b | bvssb |
| 9 | Harrogate | b | b | b | b |
| 10 | Spurn Head | cq ois | osc bcq | psbcx | bcc bc |
| | Catterick | bcb | b | b | b |
| | Tynemouth | bc | bc | bc | bc |
| 11 | Inchkeith | bcb | bc | bc | bc |
| | Leuchars | bxbvy | bvgbv | bv | bbc |
| 12 | Renfrew | bbcx | bcybx | bx | bbcx |
| | Eskdalemuir | b | b | b | bbcc |
| 13A | Tiree | bc | bc | bcph | bcb |
| 13B | Stornoway | cps | cisbc | bcc | cbc |
| 15 | Dalwhinnie | bc | is | * | is bc |
| | Aberdeen | bcpsh | bcpsb | b | bps bc |
| | Wick | bcisq | cpsq | cpsbc | bcc |
| 16 | Lerwick | orsrs | obc | bccps, ors | ors ss |
| 17 | Blacksod Point | phq | prc | prc | o |
| 18 | Malin Head | cps bc | bcc | bcps | bccps |
| | Aldergrove | cpsbc | bbcb | bcps | bcc |
| | Donaghadee | ps bc | bc | bbc | prs bc |
| 19 | Birr Castle | bcb | bc | cbcx | bcx |
| 20 | Valentia Obsy. | rsprprsc | cprbcpr | prbc | bcx |
| | Roches Point | bc | bbc | bcbx | bbcx |

## EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

### COLUMNS 5, 19, 37, 38, 39, 40—BEAUFORT NOTATION AND SYMBOLS FOR WEATHER.

b, blue sky (not more than a quarter covered with cloud).
bc, sky partly cloudy (one half covered). c, generally cloudy.
d, drizzle. e, wet air. g, gloom.
f, fog, visibility 220–1100 yds.
F, thick fog, ,, less than 220 yds.
fs, fog over sea (coast station).
fg, fog on lower ground (inland station).
m, mist, visibility 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
ks, storm of drifting snow.
k/s$_o$, slight storm of drifting snow (generally low).
K/S, heavy storm of drifting snow (generally low).
s$_o$/k, slight storm of drifting snow (generally high).
S/k, heavy storm of drifting snow (generally high).
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus.
R, heavy rain. r$_o$, slight rain.
rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ◐, lunar halo.

With present weather is combined, whenever possible, the general character of the weather.

A "solidus" divides actual existing weather from preceding conditions thus:—bc/r, fair weather after rain; –, has decreased; +, has increased.

### COLUMNS 9, 23.—FORM OF LOW CLOUD.

0 No low clouds.
1 Fair weather Cu.
2 Large Cu without anvil.
3 Cu-Nb.
4 St-Cu formed by the spreading out of Cu.
5 Layer of St or St-Cu.
6 Nimbus.
7 Fair weather Cu and St-Cu.
8 Large Cu (or Cu-Nb) and St-Cu.
9 Large Cu (or Cu-Nb) and Nb.

*Note.*—Nimbus—ragged low clouds of bad weather.

### COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky. "9+" signifies an overcast sky with a few small openings.

### COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

0 No medium clouds.
1 Typical A-St (thin).
2 Typical A-St (thick). (Sun or moon invisible).
3 Single layer of A-Cu or high St-Cu.
4 A-Cu in isolated bands. Individually decreasing (often lenticular).
5 A-Cu in bands (increasing).
6 A-Cu formed from the spreading out of Cu.
7 A-Cu associated with A-St or A-St with parts resembling A-Cu.
8 A-Cu Castellatus (or A-Cu in ragged fragments).
9 A-Cu in several layers generally associated with fibrous veils and a chaotic appearance of the sky.

### COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

### COLUMN 29.—STATE OF GROUND.

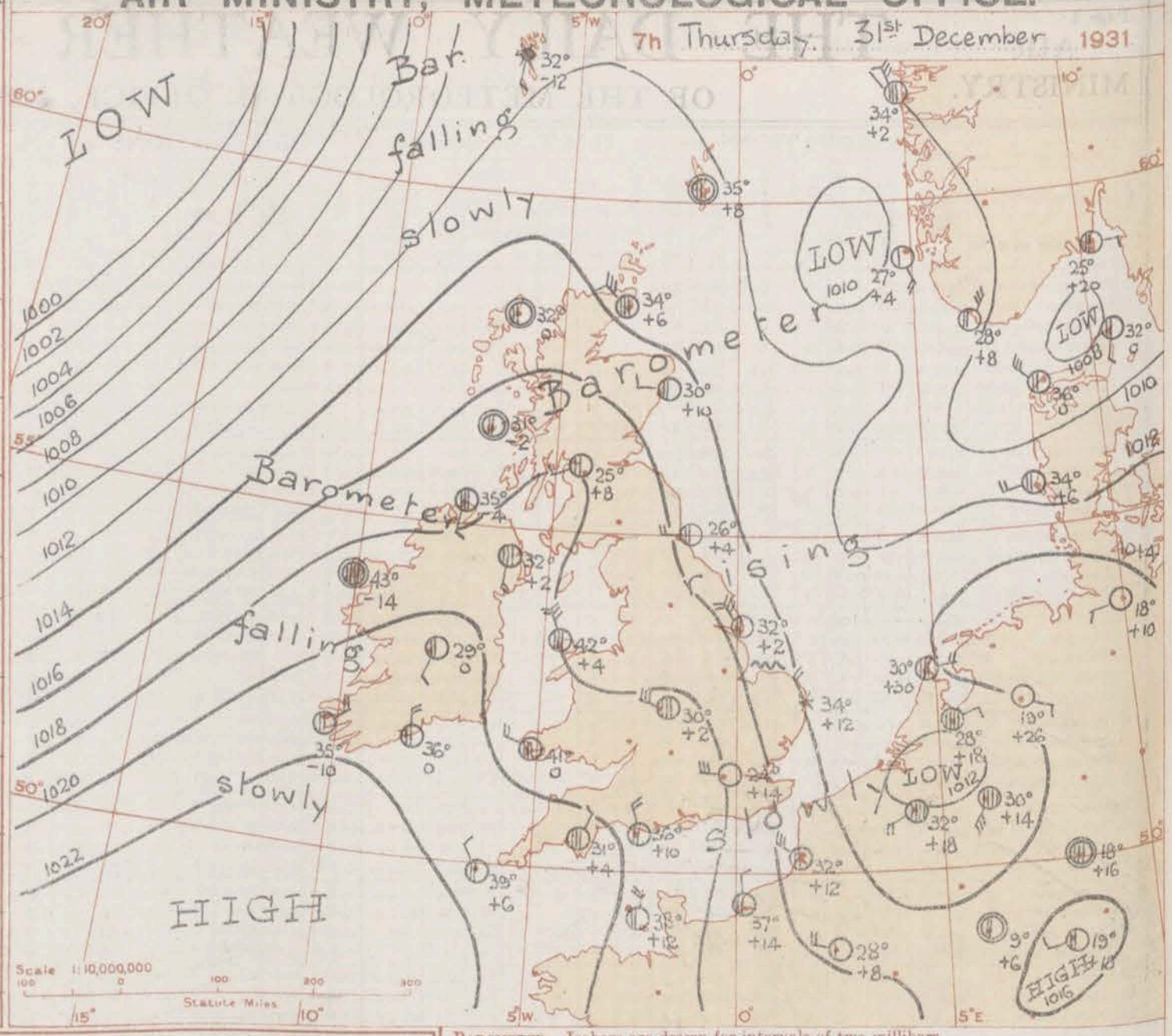
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

## REPORTS from HEALTH RESORTS for 30th December 1931.

| Districts. | Stations. | Weather. Forenoon. | Weather. Afternoon. | Temperature. Min. 9h. 29th to 9h. 30th. | Temperature. Max. 9h.—17h. 30th. | Rainfall. Night. 17h. 29th to 9h. 30th. | Rainfall. Day. 9h.—17h. 30th. | Sunshine. Sunrise to Sunset. 30th. |
|---|---|---|---|---|---|---|---|---|
| 1 | Tunbridge W. | bcb | bmo | 32 | 36 | 0·3 | - | 2·1 |
| | Bournemouth | b | b | 32 | 38 | - | - | 6·8 |
| | Ventnor ... | | | | | | | |
| | Southsea ... | b | b | 38 | 38 | - | - | 6·2 |
| | Bognor Regis | b | b | 32 | 38 | - | - | 6·2 |
| | Littlehampton | bcb | b | 32 | 40 | - | - | 6·4 |
| | Worthing ... | b | b | 32 | 39 | Trace | - | 6·3 |
| | Brighton ... | bcb | b | 33 | 40 | - | - | 6·0 |
| | Eastbourne† | b | b | 33 | 38 | - | - | 5·7 |
| | Hastings† ... | b | bbcm | 33 | 35 | - | - | 5·3 |
| | Folkestone ... | xbcb | b | 31 | 37 | Trace | - | 5·9 |
| | Dover... ... | bcpsb | bbc | 33 | 37 | 2 | Trace | 6·5 |
| | Deal ... ... | cbc | bccbc | 33 | 37 | 1 | - | 3·0 |
| | Ramsgate ... | bc | bc | 32 | 39 | 1 | - | 4·5 |
| | Margate ... | bc | bac | 35 | 38 | 1 | - | 3·9 |
| 2 | Southend ... | b | bbc | 32 | 37 | 0·5 | - | 4·6 |
| | Maldon ... | cb | bbcc | 32 | 37 | 0·5 | - | 4·0 |
| | Clacton-on-Sea | bc | bcobc | 31 | 36 | 1 | - | 5·8 |
| | Dovercourt ... | s,xbc | bc | 31 | 36 | Trace | - | 4·4 |
| | Lowestoft ... | b | coprs | 32 | 35 | 2 | 0·5 | 3·2 |
| | Skegness ... | omrs | bcrso | 31 | 35 | 1 | 2 | 1·5 |
| | Mablethorpe | cos | oscm, | 31 | 34 | 2 | 3 | 0·0 |
| | Cleethorpes ... | bcs | cs | 30 | 36 | 5 | 1 | 0·8 |
| 3 | Leamington S. | bs | bc | 31 | 37 | 1 | - | 5·3 |
| 4 | Cheltenham† | bxr,b | bm,bx | 30 | 38 | - | - | 5·6 |
| 5 | Bath ... ... | b | b | 30 | 40 | - | - | 6·5 |
| | Weymouth ... | b | b | 33 | 42 | - | - | 6·9 |
| | Jersey ... | rcbc | bc | 38 | 44 | 3 | - | 5·0 |
| | Torquay ... | crspb | b | 30 | 43 | 1 | - | 7·2 |
| | Penzance ... | cthrb | cbthr | 39 | 43 | 6 | 3 | 2·4 |
| | St. Ives ... | p | p | 38 | 44 | 2 | 2 | ? |
| | Bude ... ... | prlbc | bc | 38 | 44 | Trace | - | 4·3 |
| | Ilfracombe ... | bc | bcc | 38 | 43 | 1 | - | 3·1 |
| 6 | Aberystwyth | phbcx | bcc | 32 | 44 | 0·5 | - | 4·0 |
| 7 | Llandudno ... | cbc | bcchc | 38 | 43 | 0·5 | 0·1 | 3·4 |
| | Colwyn Bay... | babcc | bcch | 39 | 41 | - | Trace | 2·6 |
| | Rhyl ... ... | bcb | bcb | 40 | 42 | - | - | 4·1 |
| 8 | Wallasey ... | bbc | b | 37 | 43 | - | - | 5·8 |
| | Southport‖ ... | b | b | 35 | 38 | - | - | 6·0 |
| | Blackpool ... | bcb | bbc | 36 | 38 | - | - | 6·0 |
| | Morecambe ... | bbc | b | 33 | 38 | - | - | 6·0 |
| 9 | Ilkley... ... | b | b | 29 | 36 | Trace | - | 4·0 |
| 10 | Berwick-on-T. | cbc | bc | 33 | 38 | 3 | - | 3·8 |
| 11 | Dunbar ... | bcx | bcx | 33 | 36 | Trace | - | 4·5 |
| 12 | Douglas ... | xbccb | cPHcbx | 35 | 40 | - | 0·5 | 4·1 |

† Max. Temp. for period 21h. yesterday to 17h. to-day; Min. Temp. 21h.-9h. ‖ Min. Temp. 17h.-9h.

## AIR MINISTRY, METEOROLOGICAL OFFICE.




BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/8 clouded. ◑ Sky 1/8 to 4/8 clouded. ◕ Sky 5/8 to 7/8 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊼ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

| Districts. | FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 31st Dec. 1931. |
|---|---|
| 1. S.E. England<br>2. E. England ... | Light to moderate northwesterly winds; slight local snow showers, considerable bright periods; cold; severe frost at night. |
| 3. E. Midlands<br>4. W. Midlands | Light variable or westerly winds; bright periods; cold; severe frost at night. |
| 5. S.W. England<br>6. South Wales | Light variable winds; fine; cold; severe frost at night. |
| 7. North Wales<br>8. N.W. England<br>9. N. Midlands<br>10. N.E. England | As 3 - 4. |
| 11. S.E. Scotland<br>12. S.W. Scotland & Isle of Man | Variable wind becoming southwest, light to moderate; fair; cold, becoming milder. |
| 13. A. W. Scotld. B. N.W. Scotland | Southwesterly wind, light, freshening; cloudy, occasional rain; cold, becoming milder. |
| 14. Mid Scotland | As 11 - 12. |
| 15. N.E. Scotland<br>16. Orkneys and Shetlands.<br>17. N.W. Ireland | As 13. |
| 18. N.E. Ireland<br>19. S.E. Ireland<br>20. S.W. Ireland | As 11 - 12. |

### GENERAL INFERENCE.

An anticyclone extends from the Azores to Southwest England while a depression is moving slowly northeast across Iceland. Local showers of snow will occur in the East and rain later in the Northwest but in the South especially there will be considerable sunny periods. Temperature will continue low in the East and South but will rise in the West and North.

### FURTHER OUTLOOK.

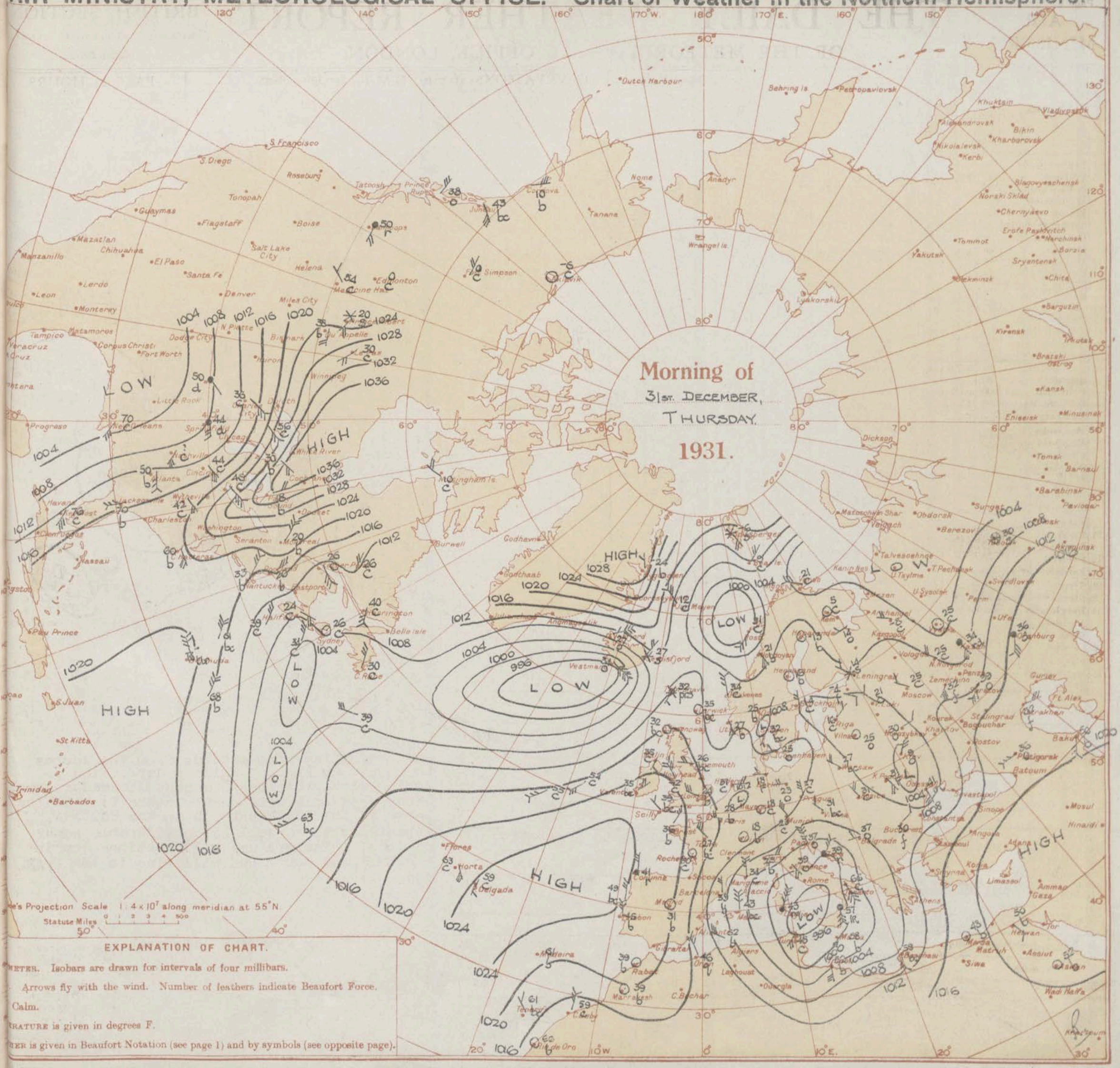
Milder in the West and North.

Forecasts issued at 0945 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

N.W. Stationery Office Press, Kingsway, W.C.2.

# AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.




## EXPLANATION OF CHART.

METER. Isobars are drawn for intervals of four millibars.

Arrows fly with the wind. Number of feathers indicate Beaufort Force.

Calm.

RATURE is given in degrees F.

ER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

# THE DAILY WEATHER REPORT

## OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 31st December 1931.

No. 25606

### OBSERVATIONS at 1 hr. G.M.T. 31st December

| District | Stations | Height above M.S.L. in feet | Barom. at M.S.L. mb. (1) | Change in 3 hours (2) | Wind Direc. (3) | Wind Force 0-12 (4) | Weather (5) | Temp. °F. (6) | % Humid. (7) | Visibility 0-9 (8) | Cloud Form Low (9) | Cloud Form Med. (10) | Cloud Form High (11) | Cloud Amount Low 0-10 (12) | Cloud Amount Total 0-10 (13) | Height of Base (feet) (14) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | London (Kew) | 18 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Croydon | 217 | 1015.5 | +6 | NW | 3 | b | 29 | 85 | 6 | - | - | - | 0 | 0 | - |
| | S. Farnborough | 237 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Winchester | 275 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Boscombe Down | 417 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Calshot (S'thmtn) | 8 | 1016.2 | +10 | NW | 4 | b | 31 | 75 | 7 | - | - | - | 0 | 0 | - |
| | Dungeness | 20 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Lympne | 346 | 1013.5 | +10 | NNW | 5 | b | 29 | 85 | 6 | - | - | - | 0 | 0 | - |
| 2 | Shoeburyness | 11 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Felixstowe | 15 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Gorleston | 14 | 1011.1 | +12 | NW'N | 3 | is. | 34 | 95 | 7 | 9 | - | - | 4.6 | 4.6 | 1500 |
| | Cranwell | 240 | 1015.3 | +20 | NW'W | 4 | b | 26 | 85 | 6 | - | - | - | 0 | 0 | - |
| 3 | Birmingham | 535 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Upper Heyford | 408 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Leafield | 612 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 4 | Ross-on-Wye | 223 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5 | Portland Bill | 32 | 1017.0 | +10 | N'W | 4 | b | 35 | 85 | 8 | - | - | - | 0 | 0 | - |
| | Plymouth | 82 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Falmouth | 200 | 1019.0 | +14 | N'W | 2 | bc | 35 | 85 | 8 | 3 | 3 | - | 2.3 | 2.3 | 4000 |
| | Scilly (St. Mary's) | 163 | 1020.2 | +8 | N | 4 | bc | 42 | 75 | 8 | 2 | - | - | 2.3 | 2.3 | 4000 |
| | Guernsey | 175 | 1017.0 | +12 | NW | 2 | r.r. | 39 | 75 | 7 | 6 | - | - | 10 | 10 | 2500 |
| 6 | Pembroke | 142 | 1018.7 | +10 | NNE | 2 | c | 36 | 85 | 7 | 8 | 6 | - | 4.6 | 9 | 1500 |
| 7 | Holyhead | 26 | 1017.5 | 0 | NW | 5 | c | 42 | 65 | 7 | 4 | - | - | 9+ | 9+ | 1500 |
| | Chester (Sealand) | 16 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 8 | L'pool (Bidston) | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 9 | Harrogate | 478 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 10 | Spurn Head | 29 | 1012.8 | +4 | NW'N | 6 | bc | 31 | 95 | 7 | - | 1 | - | 0 | 2.3 | - |
| | Catterick | 175 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Tynemouth | 67 | 1014.5 | +4 | WNW | 3 | bc | 30 | 85 | 7 | 2 | - | - | 4.6 | 4.6 | 2500 |
| 11 | Inchkeith | 190 | 1015.5 | +4 | W | 3 | bc | 31 | 95 | 8 | 5 | - | - | 2.3 | 2.3 | 2500 |
| | Leuchars | 35 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 12 | Renfrew | 36 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Eskdalemuir | 794 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13A | Tiree | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 13B | Stornoway | 34 | 1016.1 | +6 | NW | 1 | c | 32 | 95 | 8 | 9 | - | - | 7.8 | 7.8 | 2500 |
| 15 | Dalwhinnie | 1176 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Aberdeen | 37 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Wick | 81 | 1012.2 | +2 | NW | 3 | bc | 32 | 95 | 8 | 8 | 1 | - | 4.6 | 4.6 | 2500 |
| 16 | Lerwick | 54 | 1009.6 | +16 | NNE | 4 | c.s. | 35 | 95 | 5 | 6 | - | - | 10 | 10 | 800 |
| 17 | Blacksod Point | 18 | 1019.7 | 0 | N | 1 | c | 38 | 95 | 7 | 3 | - | - | 7.8 | 7.8 | 220 |
| 18 | Malin Head | 52 | 1017.6 | +6 | NNW | 2 | bcjp | 40 | 95 | 8 | 3 | 8 | - | 2.3 | 2.3 | 1500 |
| | Aldergrove | 238 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | Donaghadee | 40 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 19 | Birr Castle | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 20 | Valentia Obsy.† | 30 | 1022.1 | 0 | - | 0 | b | 40 | 95 | 9 | - | - | - | 0 | 0 | - |
| | Roches Point | 22 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

### OBSERVATIONS at 7 hr. G.M.T. 31st December

| Stations | Barom. at M.S.L. mb. (15) | Change in 3 hours (16) | Wind Direc. (17) | Wind Force 0-12 (18) | Weather (19) | Temp. °F. (20) | % Humid. (21) | Visibility 0-9 (22) | Cloud Form Low (23) | Cloud Form Med. (24) | Cloud Form High (25) | Cloud Amount Low 0-10 (26) | Cloud Amount Total 0-10 (27) | Height of Base (feet) (28) | State of Ground 0-9 (29) | Sea 0-9 (30) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| London (Kew) | 1018.2 | +10 | SW | 1 | b | 26 | 85 | 6 | 5 | - | - | Tr. | Tr. | 2500 | 4 | * |
| Croydon | 1018.2 | +14 | W'N | 3 | b | 24 | 85 | 6 | - | - | - | 0 | 0 | - | 4 | * |
| S. Farnborough | 1018.6 | +8 | WNW | 1 | c | 23 | 85 | 5 | 5 | 3 | - | 4.6 | 7.8 | 4000 | 4 | * |
| Winchester | 1019.0 | +12 | WNW | 3 | c | 26 | 85 | 6 | 5 | - | - | 7.8 | 7.8 | 4000 | 4 | * |
| Boscombe Down | 1019.5 | +8 | NW | 2 | c | 26 | 85 | 6 | 5 | 3 | - | 9 | 9+ | 1500 | 0 | * |
| Calshot (S'thmtn) | 1018.7 | +12 | NW'W | 4 | bc | 30 | 75 | 7 | 5 | - | - | 4.6 | 4.6 | 4000 | 0 | 1 |
| Dungeness | * | * | NW | 2 | bc | * | * | 7 | 1 | - | * | 2.3 | 2.3 | 2500 | * | 0 |
| Lympne | 1016.1 | +16 | ~~WS~~ | ~~5~~ | b | 26 | 75 | 6 | - | - | - | 0 | 0 | - | 4 | * |
| Shoeburyness | 1016.7 | +10 | NW'N | 3 | b | 27 | 85 | 8 | - | 3 | - | 0 | 1 | - | 4 | * |
| Felixstowe | 1015.3 | +18 | NNW | 4 | bc | 29 | 85 | 7 | 5 | - | 9 | 2.3 | 4.6 | 5700 | 4 | 2 |
| Gorleston | 1013.4 | +12 | NW | 2 | is. | 34 | 95 | 6 | 9 | - | - | 9 | 9 | 1500 | 6 | 2 |
| Cranwell | 1017.0 | +10 | W | 3 | b | 25 | 75 | 6 | - | - | - | 0 | 0 | - | 6 | * |
| Birmingham | 1018.2 | +2 | WNW | 3 | c | 30 | 75 | 7 | 5 | - | - | 7.8 | 7.8 | 2500 | 6 | * |
| Upper Heyford | 1018.5 | +8 | NW'W | 2 | is. | 28 | 85 | 5 | 5 | - | - | 9+ | 9+ | 2500 | 6 | * |
| Leafield | 1017.7 | +6 | NW'W | 2 | c | 28 | 75 | 7 | 5 | - | - | 9+ | 9+ | 4000 | 6 | * |
| Ross-on-Wye | 1018.7 | 0 | W | 1 | c | 29 | 85 | 8 | 5 | - | - | 10 | 10 | 4000 | 4 | * |
| Portland Bill | 1019.1 | +10 | N'W | 2 | bc | 36 | 75 | 8 | 4 | 4 | - | 1 | 2.3 | 2500 | 0 | 3 |
| Plymouth | 1020.7 | +4 | NE | 1 | c | 31 | 95 | 6 | 5 | 3 | - | 4.6 | 9 | 4000 | 4 | 1 |
| Falmouth | 1020.7 | +2 | - | 0 | c | 36 | 75 | 8 | 8 | - | - | 7.8 | 7.8 | 4000 | 1 | 0 |
| Scilly (St. Mary's) | 1021.6 | +6 | NW | 1 | bc | 39 | 75 | 8 | 2 | - | - | 4.6 | 4.6 | 4000 | 0 | 2 |
| Guernsey | 1019.7 | +12 | NNE | 2 | bc | 38 | 55 | 9 | 8 | 4 | - | 4.6 | 4.6 | 2500 | 5 | 3 |
| Pembroke | 1018.7 | 0 | NW'W | 2 | c | 41 | 95 | 8 | 3 | 6 | - | 4.6 | 7.8 | 1500 | 5 | 2 |
| Holyhead | 1017.6 | +4 | NNW | 5 | c | 42 | 85 | 8 | 1 | - | 2 | 7.8 | 9 | 1500 | 1 | 3 |
| Chester (Sealand) | 1017.9 | 0 | S'E | 1 | bF | 23 | 95 | 1 | - | - | - | 0 | 0 | - | 8 | * |
| L'pool (Bidston) | 1017.7 | 0 | - | 0 | bc | 31 | 95 | 9 | 5 | 6 | - | 2.3 | 4.6 | 2500 | 7 | * |
| Harrogate | 1017.2 | +14 | W | 1 | b | 27 | 75 | 7 | - | - | - | 0 | 0 | - | 8 | * |
| Spurn Head | 1014.5 | +2 | NW'N | 5 | bc | 32 | 85 | 7 | - | 1 | - | 0 | 4.6 | - | 5 | 4 |
| Catterick | 1016.7 | +8 | WNW | 2 | b | 27 | 85 | 8 | - | - | - | 0 | 0 | - | 6 | * |
| Tynemouth | 1015.6 | +4 | W | 2 | bc | 26 | 95 | 7 | 2 | - | - | 2.3 | 2.3 | 2500 | 4 | 3 |
| Inchkeith | 1016.6 | +4 | WNW | 3 | bc | 32 | 95 | 8 | 5 | - | - | 2.3 | 2.3 | 2500 | 0 | 3 |
| Leuchars | 1016.4 | +10 | W | 3 | c | 31 | 75 | 8 | 4 | - | 8 | Tr. | 7.8 | 4000 | 5 | * |
| Renfrew | 1018.6 | +8 | WSW | 1 | bc | 25 | 95 | 7 | - | - | 8 | 0 | 4.6 | - | 4 | * |
| Eskdalemuir | 1017.4 | 0 | NW | 2 | c | 27 | 75 | 8 | - | - | 6 | 0 | 9 | - | 8 | * |
| Tiree | 1016.9 | -2 | - | 0 | bc | 31 | 95 | 8 | 5 | - | - | 2.3 | 2.3 | 4000 | 4 | 1 |
| Stornoway | 1015.6 | 0 | - | 0 | bc | 32 | 95 | 8 | 9 | - | - | 4.6 | 4.6 | 2500 | 8 | 0 |
| Dalwhinnie | 1016.4 | +4 | NW | 2 | c | 27 | 85 | 8 | 1 | - | - | 7.8 | 7.8 | 2500 | 9 | * |
| Aberdeen | 1014.5 | +10 | W'N | 1 | bc | 30 | 85 | 7 | - | 3 | 6 | 0 | 4.6 | - | 8 | 1 |
| Wick | 1013.1 | +6 | NW | 4 | c | 34 | 95 | 8 | 8 | 7 | - | 4.6 | 7.8 | 2500 | 8 | 3 |
| Lerwick | 1012.4 | +8 | - | 0 | bc | 36 | 85 | 7 | 5 | - | - | 2.3 | 2.3 | 1500 | 8 | * |
| Blacksod Point | 1018.1 | -14 | - | 0 | 0 | 43 | 85 | 8 | 5 | - | - | 10 | 10 | <150 | 1 | 3 |
| Malin Head | 1017.6 | -4 | SSW | 1 | cjp | 35 | 95 | 8 | 9 | 1 | 8 | 2.3 | 9+ | 2500 | 1 | 2 |
| Aldergrove | 1018.7 | +2 | S'W | 2 | c | 32 | 95 | 7 | 5 | 3 | - | 4.6 | 9 | 2500 | 6 | * |
| Donaghadee | 1018.0 | +4 | WNW | 2 | bc | 33 | 85 | 7 | 9 | 3 | - | 2.3 | 4.6 | 1500 | 1 | 1 |
| Birr Castle | 1020.4 | 0 | SW | 1 | bc | 29 | 95 | 7 | - | - | 8 | 0 | 4.6 | - | 1 | * |
| Valentia Obsy.† | 1020.5 | -10 | NE | 2 | bc | 35 | 95 | 8 | 8 | 9 | 1 | 2.3 | 4.6 | 2500 | 1 | - |
| Roches Point | 1020.6 | 0 | N | 2 | bc | 36 | 95 | 8 | 5 | - | - | 2.3 | 2.3 | 2500 | 0 | 2 |

### PAST 24 HOURS.

| Stations | Temperature Max. Day 7h-18h °F. (31) | Temperature Min. Night 18h-7h °F (32) | Min. on Grass °F. (33) | Rainfall Day 7h-18h mm. (34) | Rainfall Night 18h-7h mm. (35) | Sunshine 3600 Hrs. (36) |
|---|---|---|---|---|---|---|
| London (Kew) | 38 | 25 | 16 | - | - | 4.6 |
| Croydon | 36 | 23 | 19 | Tr. | - | 1.9 |
| S. Farnborough | 38 | 22 | 10 | Tr. | Tr. | 5.4 |
| Winchester | 37 | 22 | 14 | - | - | 6.6 |
| Boscombe Down | 37 | 23 | 15 | - | - | * |
| Calshot (S'thmtn) | 39 | 28 | 22 | - | - | 6.6 |
| Dungeness | 37 | 25 | * | - | - | * |
| Lympne | 35 | 26 | 23 | - | - | 6.1 |
| Shoeburyness | 37 | 26 | 24 | - | - | 5.9 |
| Felixstowe | 36 | 29 | 25 | - | Tr. | 4.4 |
| Gorleston | 39 | 33 | 32 | 2 | 6 | 0.0 |
| Cranwell | 35 | 23 | 19 | - | - | 4.6 |
| Birmingham | 36 | 28 | 20 | - | - | 5.5 |
| Upper Heyford | 35 | 24 | 17 | - | Tr. | * |
| Leafield | 34 | 21 | 9 | - | - | 6.1 |
| Ross-on-Wye | 39 | 26 | 16 | - | - | 6.6 |
| Portland Bill | 41 | 34 | * | - | - | * |
| Plymouth | 43 | 30 | 19 | - | - | 5.5 |
| Falmouth | 43 | 35 | * | 1 | 2 | 5.1 |
| Scilly (St. Mary's) | 45 | 37 | * | 0.2 | - | 5.4 |
| Guernsey | 42 | 36 | 27 | - | 1 | 5.5 |
| Pembroke | 41 | 35 | * | 1 | 1 | 1.1 |
| Holyhead | 43 | 38 | 30 | 2 | Tr. | 1.7 |
| Chester (Sealand) | 40 | 23 | 19 | - | 1 | 5.3 |
| L'pool (Bidston) | 39 | 30 | 27 | - | 6 | 5.5 |
| Harrogate | 34 | 27 | 22 | - | - | 5.4 |
| Spurn Head | 37 | 31 | * | 2 | Tr. | 0.0 |
| Catterick | 35 | 26 | 19 | - | - | * |
| Tynemouth | 37 | 25 | 23 | - | - | * |
| Inchkeith | 36 | 30 | 28 | - | - | 5.3 |
| Leuchars | 35 | 27 | 22 | - | - | 5.3 |
| Renfrew | 37 | 22 | 12 | - | - | 4.4 |
| Eskdalemuir | 32 | 21 | 16 | - | - | 6.1 |
| Tiree | 40 | 30 | 21 | - | 0.2 | 3.1 |
| Stornoway | 35 | 29 | * | 5 | 0.1 | 0.0 |
| Dalwhinnie | 30 | 16 | 13 | Tr. | Tr. | 2.7 |
| Aberdeen | 36 | 29 | 23 | 0.6 | 0.2 | 4.1 |
| Wick | 37 | 28 | - | 1 | 1 | * |
| Lerwick | 36 | 33 | * | 5 | 4 | 0.0 |
| Blacksod Point | 44 | 36 | * | 1 | 1 | * |
| Malin Head | 41 | 34 | * | 0.4 | 2 | 1.7 |
| Aldergrove | 36 | 29 | 22 | 1 | Tr. | 4.4 |
| Donaghadee | 42 | 31 | * | Tr. | 1 | * |
| Birr Castle | 39 | 28 | 18 | - | - | 5.0 |
| Valentia Obsy.† | 43 | 32 | 27 | 4 | 0.6 | 1.9 |
| Roches Point | 42 | 35 | * | - | - | * |

### LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich rainfall, 9h—18h.

| | Height above M.S.L. in feet | Weather Morning (24 hrs. ended 9h.) | Weather Afternoon (24 hrs. ended 9h.) | Weather Night (24 hrs. ended 9h.) | Temperature Day Max. °F. | Temperature Night Min. °F. | Temperature Min. on Grass °F. | Rainfall Day mm. | Rainfall Night mm. | Sunshine to Sunset hrs. (Yesterday) | Humidity 15h G.M.T. % (Yesterday) | Humidity 9h. G.M.T. % (To-day) | Visibility 9h. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Kew | 18 | c3.b33b3. | bbc3. | bb3.x | 38 | 25 | 16 | - | - | 4.6 | * | * | 2 |
| Croydon | 217 | c5.bm | bmbem. | bebmx | 36 | 23 | 19 | Tr. | - | 1.9 | * | * | 4 |
| Greenwich (Royal Observatory) | 149 | cbm | bmc | bxf | 36 | 24 | 16 | - | Tr. | 2.1 | 68 | 80 | 3 |
| City (Bunhill Row) | — | * | * | * | * | * | * | * | * | 1.9 | * | * | * |
| Westminster (St. James' Park) | 27 | * | * | * | 38 | 26 | 23 | - | - | 4.0 | 64 | 84 | * |
| Regents Pk. (Botanic [redacted] | 168 | * | * | * | * | * | * | * | * | * | * | * | * |
| Camden Square | 110 | cbcb | b | * | 37 | 27 | 21 | - | - | * | * | 84 | * |
| Kensington | 80 | orsbem | bem | * | 37 | 26 | 20 | Tr. | - | 3.8 | At 18h. 83 | * | * |
| Hampstead Observatory | 450 | o5bc | c | bcx | 36 | 21 | 13 | 0.1 | - | 6.1 | 70 * | 88 | * |

### Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 31st

| South Kensington Max. | Time | Min. | Time | Kew Observatory Max. | Time | Min. | Time |
|---|---|---|---|---|---|---|---|
| 1.3 | 16-17h 30th | <0.3 | 2-5h. 31st | 0.3 | 21h.30m. | 0.1 | 13h.30m. |

### FOREIGN OBSERVATIONS.

| Stations | 18h. G.M.T. 30th December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | 7h. G.M.T. 31st December Barom. mb. | Wind Direc. | Wind Force | Weather | Temp. °F. | Past 24 Hours Max. Day °F. | Min. Night °F. | Rainfall Day mm. | Rainfall Night mm. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Paris | 1011.4 | NW! | 2 | b | 30 | 1015.7 | WNW | 2 | b | 28 | 36 | 28 | Tr. | - |
| Brussels | 1009.2 | SSW | 2 | b | 28 | 1013.5 | WSW | 2 | 0 | 31 | 34 | 27 | Tr. | ! |
| Berlin | 1002.9 | NNW | 4 | is. | 28 | 1013.1 | W | 2 | 0 | 23 | 34 | 21 | 0.2 | 0.2 |
| Zurich | 1007.9 | NW | 1 | 0 | 30 | 1014.6 | N | 1 | 0 | 27 | 39 | 25 | - | 0.2 |
| Rome | 992.1 | W | 2 | u | 48 | | | | | | 54 | | 18 | |

### EXPLANATION OF FIGURES, LETTERS, etc.

**COLUMNS 2, 16.**
The barometric tendency is expressed in tenths of a millibar.

**COLUMNS 4, 18.**
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

| Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. | Beaufort No. | Statute m/h. |
|---|---|---|---|---|---|
| 0 | 1 | 4 | 13-18 | 9 | 47-54 |
| 1 | 1-3 | 5 | 19-24 | 10 | 55-63 |
| 2 | 4-7 | 6 | 25-31 | 11 | 64-75 |
| 3 | 8-12 | 7 | 32-38 | 12 | 75 |
| | | 8 | 39-46 | | |

**COLUMNS 34, 35.**
Tr. = rain has fallen, but amount less than 0·1 mm.

**COLUMNS 8, 22.—Code for surface visibility.**

| | | Objects not visible at |
|---|---|---|
| 0 | Dense fog | 55 yards. |
| 1 | Thick fog | 220 „ |
| 2 | Fog | 550 „ |
| 3 | Moderate fog | 1,100 „ |
| 4 | Mist or haze | 1¼ miles. |
| 5 | Poor visibility | 2½ „ |
| 6 | Moderate „ | 6½ „ |
| 7 | Good „ | 12½ „ |
| 8 | Very good „ | 31 „ |
| 9 | Excellent „ | beyond 31m. |

**COLUMN 30.—Code for State of Sea.**

| | | | |
|---|---|---|---|
| 0 | Calm. | 5 | Very rough. |
| 1 | Smooth. | 6 | High. |
| 2 | Slight. | 7 | Very high. |
| 3 | Moderate. | 8 | Precipitous. |
| 4 | Rough. | 9 | Confused. |

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† 1 hr observations are from Valentia W/T station.