M.O. Form 2373

THE DAILY WEATHER REPORT

BRITISH SECTION

1st October to 31st December

1933.

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, 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, Jonsbu, Storfjord, and Torgilsbu 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. From 1st March, 1933, the positions of well-defined warm, cold and occluded fronts have been indicated on the weather maps.

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, pressures and temperatures over the British Isles and on the Continent of Europe.

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.

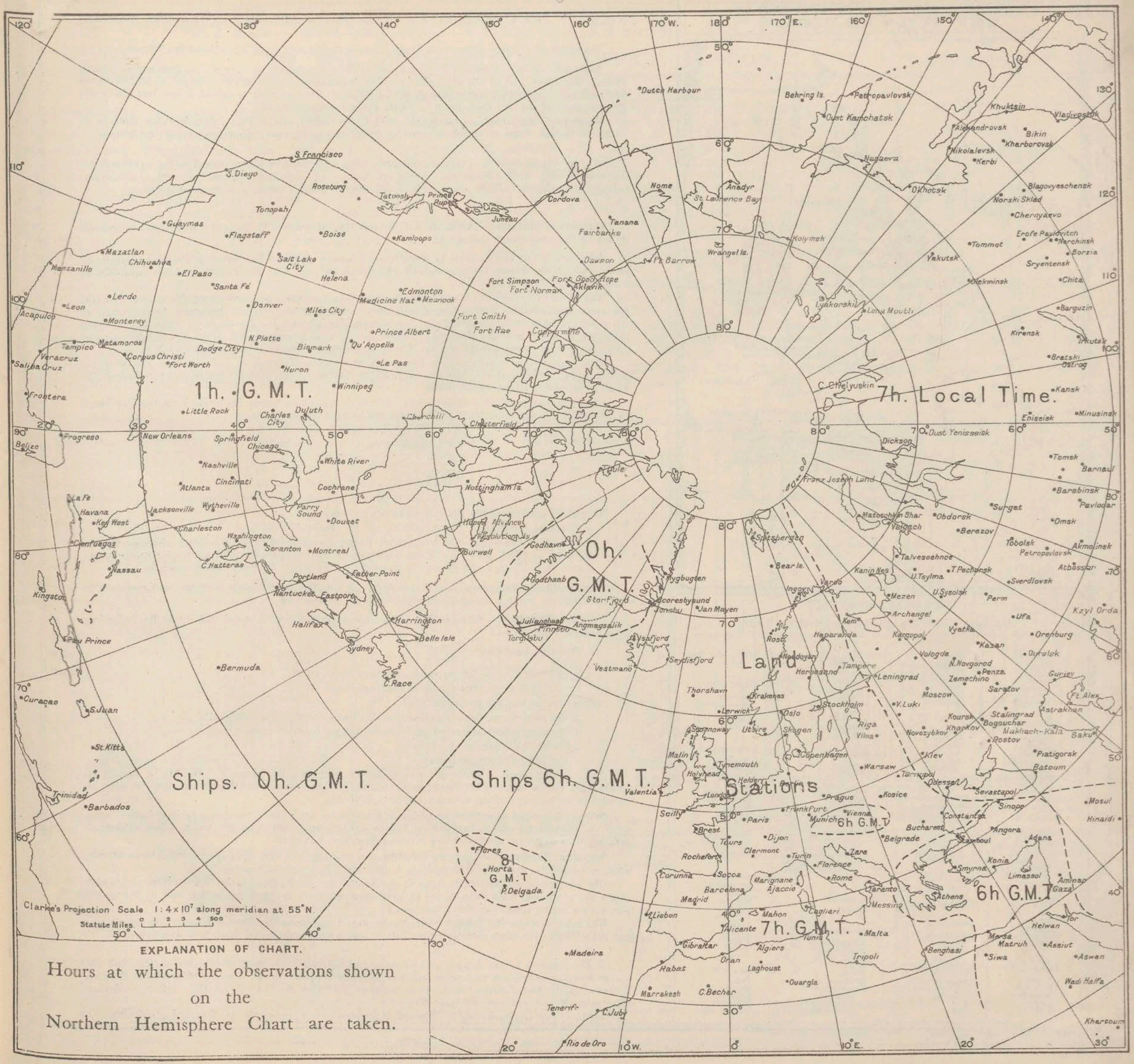
For gales commencing from East or West the South Cone will be hoisted if the gale is expected to change to a Southerly direction.

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 :—

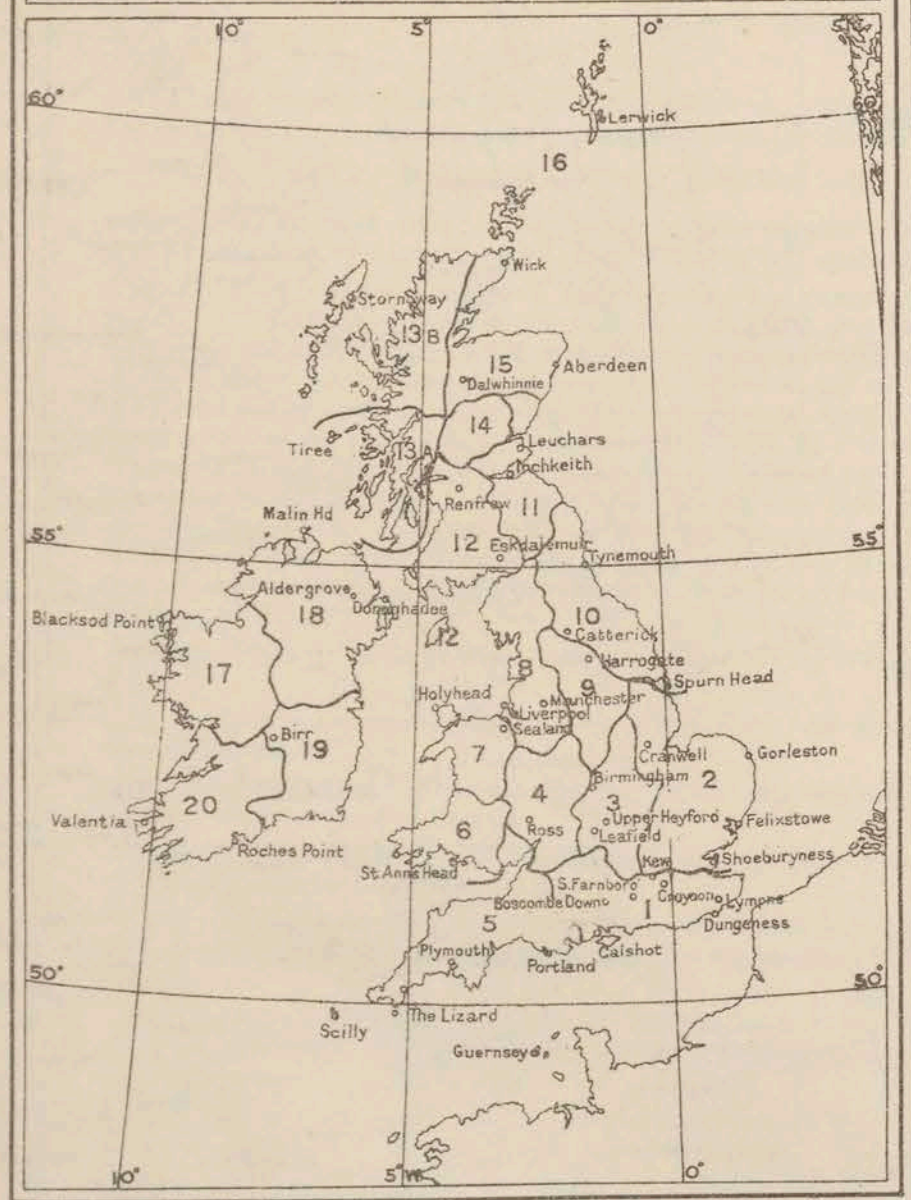
▲ North Cone hoisted : ▼ South Cone hoisted :

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

2495/6


1h. G. M. T.
7h. Local Time.
0h. G. M. T.
Ships. 0h. G.M.T.
Ships 6h. G.M.T.
Stations
6h G.M.T
7h. G.M.T.
6h G.M.T
8h G.M.T
Land
Clarke's Projection Scale 1:4×10⁷ along meridian at 55°N.
Statute Miles 0 1 2 3 4 500
EXPLANATION OF CHART.
Hours at which the observations shown on the Northern Hemisphere Chart are taken.

FORECAST DISTRICTS AND STATIONS IN GREAT BRITAIN AND IRELAND



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.

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.

Worthy Down and Manchester.—Observations from Worthy Down ceased to be published in this Report after 30th September. From 1st October corresponding observations from a station called "Marchester," which is situated on the Barton Moss Airport have been included

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 temperature 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.

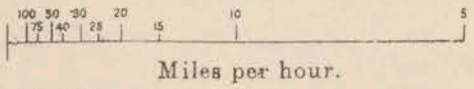
The scale below can be used to determine the theoretical wind as deduced from the pressure distribution on either chart. On the assumption that the path of the air is straight this theoretical wind is called the Geostrophic Wind.

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 $1:4\times10^7$ 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

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

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 Meteorology," (2nd Edition, 1930), to be purchased from H.M. Stationery Office, Adastral House, Kingsway, W.C.2, price 3s. 2d. post free.

Corrections and additions can be obtained, if required, on application to the Meteorological Office.

H.M. Stationery Office Press, Kingsway, W.C.2. Ps 784/2673. WO. 57 A. D. 5004. Cp-908. 220.12/33.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

MONTHLY SUPPLEMENT, NOVEMBER 1933. Nº 203

DRY. SUNNY IN IRELAND, SOUTHWEST ENGLAND AND WALES. RATHER COLD FROM THE 25TH ONWARDS.

The main feature of the month was the deficiency of rain in all districts except along the East Coast. At Ross-on-Wye and Stornoway the monthly totals were only 22% and 30% respectively of normal, while at Birr Castle no measurable rain fell after the 18th of the month. Along the East Coast rainfall in was in excess of normal, the total of 112 mm. at Tynemouth being more than twice the monthly average, and the highest recorded there in November since records commenced in 1915. Sunshine was below the average except in Ireland and Southwest England, and there was a marked absence of southwesterly winds.

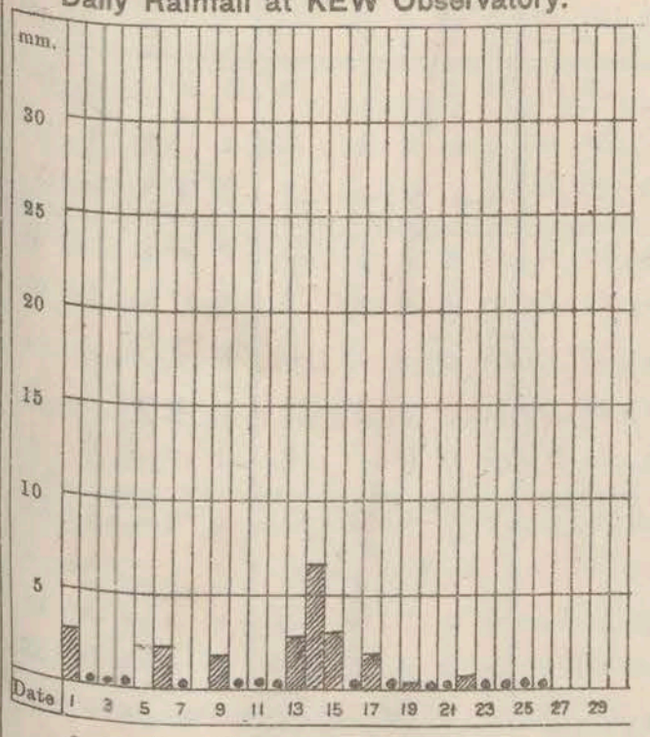
Squally northwesterly winds in the rear of a depression over the North Sea persisted generally until the 3rd, reaching gale force locally, while showers were of a wintry type in the North. Winds moderated as this depression moved away eastwards and an anticyclone spread in from the Atlantic, but continued from a northerly point. A large mass of warm air came round the anticyclone and gave unusually high temperatures in Scotland on the 6th when the thermometer rose to 62°F. at Leuchars. On the following day temperatures of 55°F. were common.

Secondaries associated with the Icelandic depressions gave a period of very unsettled weather from the 8th until the 13th, though sunny periods occurred in places along the south coasts. On the 14th an active centre commenced to move southwards across the country. 44 mm. of rain fell at Donaghadee on the 25th and 27 mm. at Harrogate on the 16th. West of Ireland the advance of the depression was responsible for northwesterly squally of hurricane force on the 15th. A heavy thunderstorm at Guernsey on the 17th was accompanied by 31 mm. of rain and hail. Winds from an easterly point continued until the depression eventually filled up over Portugal on the 19th.

During a brief, mild southeasterly current, a temperature of 60°F. was recorded at Croydon on the 20th, and conditions were generally quiet, with much fog in England, until the 24th, though brighter weather occurred in Ireland and the west of Great Britain.

Round an anticyclone which built up over Scandinavia by the 25th, cold northeasterly winds set in causing a sharp drop in temperature. Showers of sleet, snow and hail were experienced in the southeastern half of the country on the 25th and 26th, while on the latter day persistent fog at Renfrew resulted in a maximum temperature of only 26°F. A stationary depression on the Atlantic gave southerly winds and fairer weather in Ireland and West Scotland. The Atlantic depression began to fill up on the 28th when an anticyclone spread westward and cloudy and rather cold weather was maintained in England until the end of the month. A depression which advanced from the Atlantic caused freshening southerly winds and milder conditions over Ireland on the 30th when local gales occurred along the western seaboard.

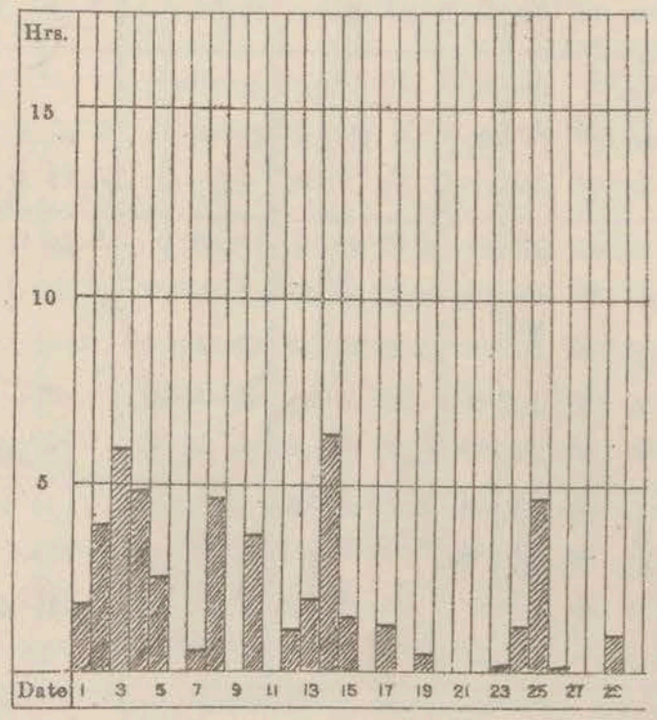
Daily Rainfall at KEW Observatory.



•=Less than 0·5 mm.

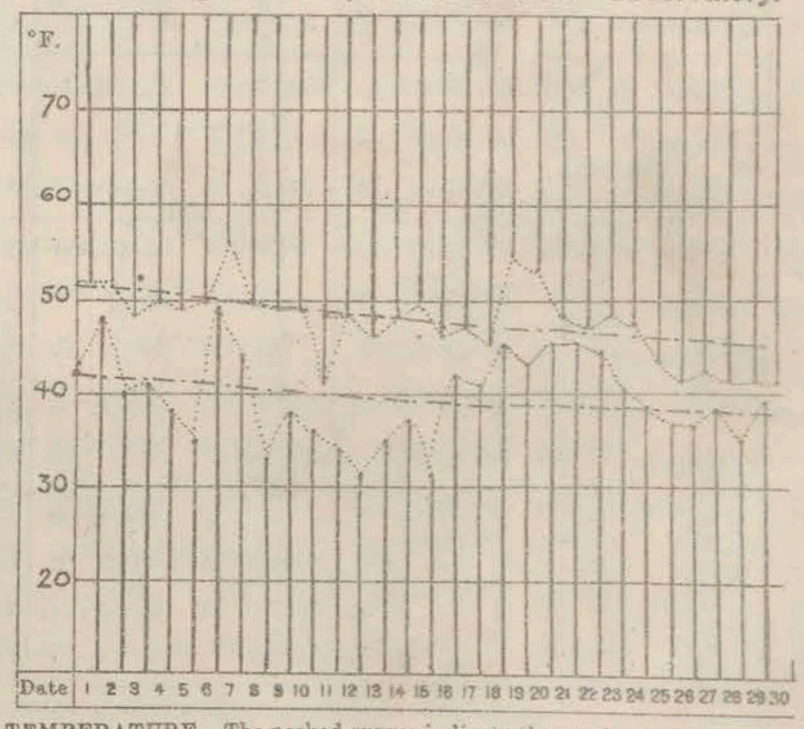
RAINFALL. Total for Month. 24 mm.

Daily Sunshine at KEW Observatory.



SUNSHINE. Total for Month. 48 hrs.

Daily Range of Temperature at KEW Observatory.



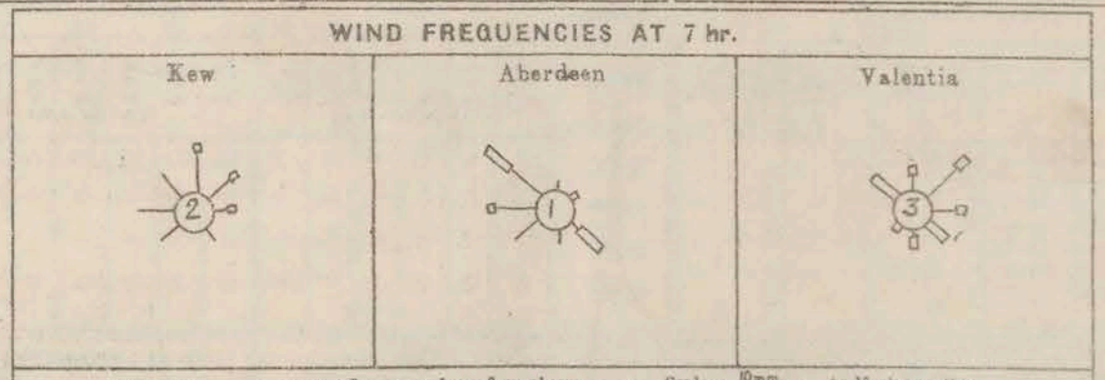
TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.*

STATIONS.	PRESSURE Mean	PRESSURE Difference from average	TEMPERATURE Mean	TEMPERATURE Difference from average
	mb.	mb.	°F.	°F.
Kew	1013·5	- 1·1	43·3	- 1·0
Aberdeen	1014·8	+ 5·0	43·5	+ 1·0
Valentia	1014·9	+ 1·9	47·3	- 0·4

*Pressure—The mean is for the 24 hours, derived from values at 7h. and 18h. duly corrected. 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 ...	4,753
Aberdeen ...	7,805
Lerwick ...	12,849
Valentia ...	7,808

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.	Minimum. 23° or below	24° - 32°	33° - 41°	42° - 50°	51° - 59°	Normal Min.	Extremes—Warmest and Coldest. Days. Highest Max.	Date.	Lowest Max.	Date.	Nights. Highest Min.	Date.	Lowest Min.	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.
							°F.						°F.	°F.		°F.		°F.		°F.																					
1	London ...	0	5	20	5	0	49·1	0	2	18	10	0	38·8	56	7	41	25, 26, 28, 29, 30	49	7	31	13, 16	10	3	25	0	4	23	0	1	20	0	0	2	1	6	5	1	0	4	1	2
	(Kew Obsy).																																								
	Croydon ...	0	6	18	5	1	*	0	1	21	8	0	*	60	20	39	23, 30	49	7	31	16	4	12	16	1	5	22	0	6	18	0	1	0	1	8	3	0	1	3	7	0
	Calshot** ...	0	1	18	11	0	*	0	0	18	12	0	*	55	20, 31	41	29	50	2	33	12, 13, 14	7	3	23	1	0	27	1	0	25	2	0	0	0	4	17	0	0	1	0	13
	(Southampton)																																								
	Lympne ...	0	7	20	3	0	*	0	1	21	8	0	*	58	20	38	28, 30	48	20	32	12	5	12	17	1	6	22	0	7	17	1	0	0	2	4	9	0	0	0	1	16
2	Shoeburyness...	0	4	21	5	0	49·7	0	1	21	8	0	39·7	55	7, 20	40	30	48	7	30	16	3	8	21	1	5	22	2	3	20	0	0	1	3	1	13	0	0	1	0	14
	Gorleston ...	0	1	24	5	0	48·5	0	0	13	17	0	39·6	53	7, 8	41	30	48	19	35	15	0	3	26	0	2	27	0	5	24	0	0	0	1	1	8	0	0	1	3	7
	Cranwell ...	0	4	23	3	0	47·4	0	3	18	9	0	37·9	53	7	40	28, 29, 30	47	9	29	13	4	8	17	3	7	19	1	6	20	3	0	1	6	4	5	0	1	2	2	6
3	Birmingham ...	0	5	19	6	0	47·6	0	1	20	9	0	38·4	53	7, 19	38	26	49	20	32	11	7	7	18	0	5	21	0	5	19	0	0	1	4	4	4	0	0	5	10	1
	(Edgbaston)																																								
4	Ross-on-Wye ...	0	5	16	9	0	49·3	0	6	13	11	0	37·8	54	1	38	29	48	2, 7, 20	24	13	11	6	23	0	1	26	1	4	21	0	0	1	5	3	10	0	0	0	2	10
5	The Lizard ...	0	0	11	19	0	*	0	0	6	23	1	*	55	11	45	26	52	2	33	26	*	0	30	0	0	30	0	0	30	0	0	0	0	0	27	0	0	0	0	28
7	Holyhead ...	0	1	14	15	0	50·2	0	1	6	20	3	42·3	55	9, 12	41	26	52	7	30	30	6	2	24	0	3	24	1	1	25	1	0	0	1	1	15	0	0	0	0	20
8	Liverpool ...	0	5	19	6	0	48·5	0	3	14	13	0	40·2	52	9, 19, 20	37	26	49	7	32	13, 26, 28	3	5	24	0	9	20	0	7	20	0	0	0	3	2	20	0	1	4	3	13
	(Bidston)																																								
10	Tynemouth ...	0	0	25	5	0	48·4	0	0	14	16	0	38·1	57	6	42	26	47	7, 8, 19, 21	35	13	0	0	30	0	1	29	0	0	30	0	0	0	0	0	17	0	0	1	0	13
11	Inchkeith** ...	0	2	25	3	0	*	0	0	18	12	0	*	55	6	40	26	47	7, 20	35	27	6	0	30	0	5	25	0	2	28	0	0	0	0	1	21	0	0	1	1	16
12	Renfrew ...	1	5	19	5	0	*	2	9	12	7	0	*	59	6	26	26	47	20	22	26, 27	15	5	23	0	2	21	1	0	23	2	0	2	3	2	12	0	1	10	2	10
	Eskdalemuir ...	0	9	19	2	0	*	1	12	14	3	0	*	58	6	36	26, 30	45	20	21	12	15	9	19	2	12	17	0	6	20	0	0	0	1	0	20	0	0	0	0	24
13a	††Stornoway C.G.	0	0	25	5	0	47·6	0	0	15	15	0	38·0	53	6	44	26	49	6	35	4	*	4	26	0	1	28	0	5	24	0	0	0	0	0	23	0	0	0	0	28
15	Aberdeen ...	0	0	27	3	0	46·9	0	3	15	12	0	37·2	58	6	42	26	49	7, 8	27	12	4	2	26	0	3	24	1	3	24	1	0	0	0	1	18	0	0	0	0	14
18	Aldergrove ...	0	0	27	3	0	*	0	3	17	10	0	*	55	1	42	23	48	7	27	22	9	9	19	0	7	19	2	5	24	0	0	1	4	0	18	0	0	1	1	22
19	Dublin ...	0	0	23	7	0	49·9	0	7	19	4	0	37·6	55	6, 9	44	11, 22, 26, 28	48	7	25	23	13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	(Phœnix Park)																																								
	Birr Castle ...	0	2	21	7	0	49·3	1	9	12	8	0	36·8	54	1	41	11, 24	47	7	22	22	20	0	22	0	0	23	0	0	24	0	0	0	1	0	29	0	0	0	0	28
20	Valentia ...	0	0	12	18	0	52·0	0	1	6	22	1	42·9	55	6	44	18	51	2	31	22	2	3	27	0	3	25	2	2	27	0	0	0	0	0	25	0	0	0	0	28
	(Cahirciveen)																																								

Upper Air Temperature.

Pressure. mb.	Normal Height. Feet.	Normal Temperature. °F.	Duxford. Mean. °F.	No. of Reports.	S. Farnborough. Mean. °F.	No. of Reports.	Mean. °F.	No. of Reports.
950	1740	40	38·9	39	40·8	8		
850	4630	34	32·2	39	32·1	9		
750	7950	26	23·8	39	22·8	9		
650	11,620	16	13·3	39	10·6	8		
550	15,780	1	−1·9	39	0·3	4		

Upper Winds.

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

Station. Height. Feet.	Lympne. 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	Holyhead. No. of Obs.	9 or less	10 to 25	26 to 45	46 to 75	Above 75	Renfrew. No. of Obs.	9 or less	10 to 25	26 to 45	46 to 75	Above 75	Station Height. Feet.
		miles per hour.						miles per hour.						miles per hour.						miles per hour.					
2,000	55	16	25	14	0	0	56	6	32	18	0	0	65	14	33	16	1	1	50	12	30	8	0	0	2,000
5,000	15	2	9	4	0	0	21	5	13	3	0	0	24	7	13	4	0	0	21	5	11	4	1	0	5,000
10,000	4	0	4	0	0	0	7	1	2	3	1	0	8	2	5	0	1	0	11	2	4	3	2	0	10,000
15,000	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	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.

SUNSHINE, RAINFALL, AND HUMIDITY November 1933

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).	11	12	6	1	0	6·2	14	1789	+314	48	-4	1880	81	1883	26	1885 1932
	Croydon ...	14	13	2	1	0	7·0	8	1760	*	36	*	1922	83	1923	28	1932
	Calshot** ... (Southampton)	8	10	7	5	0	8·3	8	1963	*	85	*	1881	109	1923	31	1888
	Lympne ...	12	10	6	2	0	7·6	4	2008	*	51	*	1921	108	1925	43	1926
2	Shoeburyness ...	10	12	7	1	0	6·6	4	1895	*	48	*	1919	104	1920	47	1922
	Gorleston ...	14	9	6	1	0	6·7	1	1791	+86	44	-18	1908	106	1920	37	1912
	Cranwell ...	13	11	3	3	0	7·4	2	1658	+110	47	-11	1921	97	1925	38	1932
3	Birmingham ... (Edgbaston)	13	10	7	0	0	5·9	14	1548	+271	42	-6	1887	93	1913	13	1912
4	Ross-on-Wye ...	11	6	10	3	0	6·9	15	1734	+248	71	+8	1915	108	1923	42	1919
5	Falmouth ... (Observatory)	4	17	7	2	0	7·6	4	1790	+31	63	-13	1881	145	1923	38	1917
7	Holyhead ...	8	8	10	4	0	7·0	27	1669	+63	79	+14	1914	124	1925	36	1922
8	Liverpool ... (Bidston)	12	7	10	1	0	6·4	2	1549	+93	55	-4	1908	90	1925	35	1932
10	Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11	Inchkeith** ...	9	17	4	0	0	5·2	2	1444	*	36	*	1922	82	1922	51	1929
12	Renfrew ...	15	11	3	1	0	8·0	2	1273	*	36	*	1921	60	1927	28	1932
	Eskdalemuir ...	12	13	4	1	0	7·3	2	1342	+127	44	-3	1910	89	1925	31	1916
13n	††Stornoway C.G.	11	11	6	2	0	6·8	16	1254	-5	51	+8	1881	67	1911	19	1881
15	Aberdeen ...	9	14	6	1	0	6·4	14	1406	+19	47	-8	1881	83	1904	32	1924
18	Aldergrove ...	11	10	7	2	0	6·3	3, 15	1188	*	55	*	1927	77	1930	50	1929
19	Dublin ... (Phœnix Park)	11	11	5	3	0	7·5	3	1427	-80	59	-12	1881	101	1925	36	1888
	Birr Castle ...	8	11	9	2	0	6·6	3	1379	+36	68	+4	1881	95	1881 1909	26	1917
20	Valentia ... (Cahirciveen)	6	13	8	3	0	7·3	17	1402	-43	80	+15	1880	118	1909	33	1917

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).	19	4	6	1	0	0	7	14	466	-140	24	-32	1871	130	1926	12	1901	0	0
	Croydon ...	12	8	10	0	0	0	5	14	543	-136	27	-42	1921	160	1929	24	1932	0	1
	Calshot** ... (Southampton)	23	4	2	1	0	0	8	14	567	-79	16	-51	1871	173	1929	13	1879	0	0
	Lympne ...	14	6	7	3	0	0	7	25	542	-182	37	-44	1920	173	1926	26	1932	0	1
2	Shoeburyness ...	15	9	5	1	0	0	8	13	368	-112	28	-24	1920	105	1929	17	1920	0	1
	Gorleston ...	13	4	9	2	2	0	21	16	567	-55	82	+21	1871	208	1878	20	1920	0	0
	Cranwell ...	10	11	7	1	1	0	20	15	512	-78	55	+8	1917	111	1929	22	1920	0	1
3	Birmingham ... (Edgbaston)	16	10	2	2	0	0	8	14	626	-48	24	-37	1893	181	1929	17	1920	0	0
4	Ross-on-Wye ...	22	5	2	1	0	0	7	19	611	-107	14	-50	1859	227	1929	14	1917	0	0
5	Falmouth ... (Observatory)	18	2	7	3	0	0	12	12	896	-211	41	-81	1871	340	1929	21	1901	0	0
7	Holyhead ...	14	6	8	2	0	0	11	14	645	-243	46	-59	1871	204	1877	40	1922	0	0
8	Liverpool ... (Bidston)	19	4	5	2	0	0	10	14	511	-198	32	-32	1867	128	1877	17	1920	0	0
10	Tynemouth ...	5	10	8	6	1	0	24	2	602	-19	112	+58	1915	94	1919 1926	19	1922	0	0
11	Inchkeith** ...	17	7	5	1	0	0	10	17	531	-23	29	-27	1870	131	1878	11	1896	0	0
12	Renfrew ...	12	10	4	3	1	0	18	19	913	-12	57	-41	1921	181	1931	18	1925	0	0
	Eskdalemuir ...	15	6	6	3	0	0	11	13	1417	-12	53	-94	1910	286	1931	52	1925	0	4
13n	††Stornoway C.G.	12	8	7	3	0	0	7	19	939	-327	45	-103	1870	250	1898	76	1885	0	0
15	Aberdeen ...	11	5	9	4	1	0	15	2	661	-87	82	+7	1871	164	1872	31	1904	0	1
18	Aldergrove ...	15	8	4	3	0	0	9	14	681	*	41	*	1926	135	1931	43	1932	0	1
19	Dublin ... (Phœnix Park)	16	7	6	1	0	0	6	14	602	-103	32	-40	1877	159	1916	10	1922	0	0
	Birr Castle ...	14	10	3	3	0	0	7	11	717	-112	29	-50	1872	157	1931	21	1922	0	0
20	Valentia ... (Cahirciveen)	14	7	5	2	1	1	44	30	1282	-132	93	-46	1870	310	1931	20	1879	1	0

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 60 %	50 to 59 %	40 to 49 %	30 to 39 %	20 to 29 %	10 to 19 %
London (Kew)	1	5	8	15	0	1	0	0	0
Ross-on-Wye	0	9	7	13	1	0	0	0	0
Falmouth (Obsy.)	1	5	10	11	3	0	0	0	0
Renfrew ...	5	11	9	4	1	0	0	0	0
Eskdalemuir	2	11	10	6	1	0	0	0	0
Aberdeen ...	2	4	12	8	4	0	0	0	0
Valentia ...	0	5	8	14	3	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	30	0	0	0	0	0	0	0	0
Ross-on-Wye	0	30	0	0	0	0	0	0	0	0
Renfrew ...	0	29	0	0	1	0	0	0	0	0
Eskdalemuir	0	30	0	0	0	0	0	0	0	0
Aberdeen ...	0	30	0	0	0	0	0	0	0	0
Valentia ...	6	24	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.

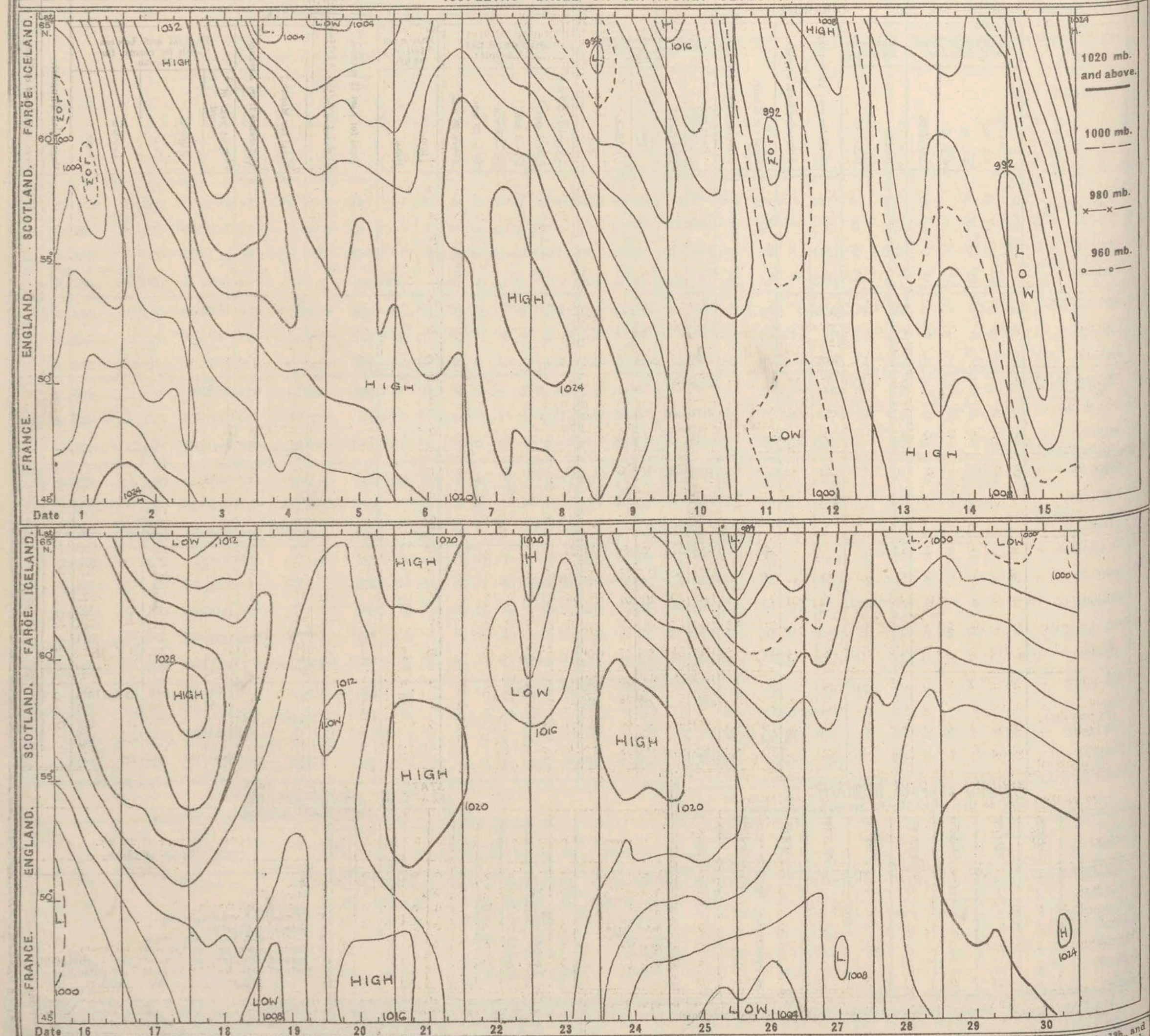
** In extremes of rainfall the short period returns from Inchkeith are supplemented by those from Leith, and extremes of rainfall and sunshine from Calshot by those from Southampton.

‡ 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.

†† *Observations Coast Guard began Sept., 1930. Normals and extremes for old Station.*

PRESSURE: ICELAND TO GULF OF LIONS NOVEMBER 1933.

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.

Pa 644/2671. Wt. 56. 0.5003. Gp.508. 990. 12/33.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 1st November 1933.

No. 26.277

OBSERVATIONS at 13h. G.M.T. 31st October 1933

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)	1006.3	-4	W	3	ir₀	51	85	6	5	7	-	7-8	10	2500
	Croydon	1007.1	-14	WSW	3	c/pr	50	85	7	5	2	-	7-8	10	800
	S. Farnborough	1006.4	-14	W'S	4	ir₀	52	85	6	6	2	8	7-8	9+	1500
	Boscombe Down	1007.6	-10	W'N	4	c	51	75	7	5	2	-	9	9+	1500
	Calshot, S'thmtn	1007.6	-16	W	5	c	53	75	8	8	-	8	4-6	10	2500
	Dungeness	*	*	WSW	4	c	*	*	6	2	-	*	10	10	1500
	Lympne	1006.5	-16	W'S	4	c/pr	49	85	7	6	2	-	7-8	10	1500
2	Shoeburyness	1005.1	-8	W	3	c/r	50	85	6	5	2	-	7-8	10	1500
	Felixstowe	1003.9	-14	WSW	4	c/r	49	85	7	5	2	-	7-8	9+	2500
	Gorleston	1002.2	-10	W	4	c	50	75	6	5	6	-	4-6	7-8	2500
	Cranwell	1003.2	-2	W'N	5	c	47	75	7	5	-	-	9+	9+	4000
3	Birmingham	1005.5	-2	WNW	4	pr	50	65	6	6	-	9	7-8	7-8	1500
	Upper Heyford	1006.4	-2	WSW	5	pr₀	48	75	7	5	2	-	9	9+	1500
4	Ross-on-Wye	1007.2	0	W'N	4	c	51	65	8	8	-	8	4-6	9	4000
5	Portland Bill	1008.4	-6	WNW	5	c	54	75	7	8	-	-	10	10	1500
	Plymouth	1010.9	-4	W'N	5	c	54	75	8	6	1	7	4-6	9+	1500
	The Lizard	1012.9	0	NW	4	c	53	75	8	8	-	-	10	10	2500
	Scilly (St. Mary's)	1013.9	0	NW'N	4	c/pr	52	85	8	8	6	-	4-6	7-8	2500
	Guernsey	1011.6	-16	W'N	5	o	55	85	8	5	-	-	10	10	1500
6	Pembroke	1009.5	-2	NW	4	q	52	65	7	8	7	-	7-8	9+	2500
7	Holyhead	1007.6	+2	WNW	6	c/pr	49	85	8	3	3	-	7-8	9	1500
	Chester (Sealand)	1005.2	-2	NW'W	4	pr	48	85	7	9	2	-	7-8	9+	1500
8	L'pool (Bidston)	1004.2	0	NW'W	6	c/pr	46	85	7	8	-	-	9	9	1500
	Manchester	1003.4	-6	NW	5	c/pr	50	65	7	9	-	-	7-8	7-8	1500
9	Harrogate	1001.8	0	SW	3	c	46	65	8	6	8	-	2-3	9	2500
10	Spurn Head	999.7	-2	W'N	6	c	50	85	6	5	3	-	4-6	7-8	2500
	Catterick	1000.4	-4	W	5	bc	47	65	8	5	-	1	2-3	2-3	4000
	Tynemouth	998.5	-2	W	4	bc	47	65	7	2	6	-	4-6	4-6	2500
11	Inchkeith	998.2	-6	W	5	c	45	65	8	8	-	-	7-8	7-8	2500
	Leuchars	997.7	-6	W	4	c	47	65	9	7	8	-	4-6	7-8	2500
12	Renfrew (Abbotsinch)	999.8	-14	W'N	4	bc jp	43	85	7	9	8	-	4-6	4-6	2500
	Eskdalemuir	999.6	-10	W'N	3	pr	43	85	7	6	-	-	10	10	800
13A	Tiree	1000.8	-2	N'W	7	pr	47	85	6	3	8	-	9	9+	1500
13B	Stornoway	996.2	0	NNW	5	c/ph(r)	43	85	7	8	7	-	4-6	7-8	1500
15	Dalwhinnie	997.8	-4	NW	3	bc	38	85	8	4	4	-	2-3	4-6	2500
	Aberdeen	994.7	-2	WNW	5	bc	44	75	8	8	7	-	2-3	4-6	4000
	Wick	992.4	-4	W	4	c/r	43	95	8	9	1	-	4-6	7-8	1500
16	Lerwick	988.2	+2	NW'W	4	c jp	47	65	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	1011.6	0	WNW	6	q	51	75	8	8	-	-	10	10	800
18	Malin Head	1004.1	0	WNW	6	c/pr	48	85	7	6	-	-	7-8	7-8	1500
	Aldergrove	1005.2	-10	W	5	c jp	49	75	8	8	-	-	7-8	7-8	1500
	Donaghadee	1004.3	-8	WNW	3	pr₀	49	75	8	5	-	-	7-8	7-8	1500
19	Birr Castle	1010.9	-2	WNW	3	o/r	49	75	8	6	-	-	10	10	2500
20	Valentia Obsy.	1015.8	+2	NW	5	c	53	75	8	5	-	-	9+	9+	1500
	Roches Point	1012.9	-4	NW	4	c	52	65	8	3	-	-	7-8	7-8	2500

OBSERVATIONS at 18h. G.M.T. 31st October

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)	1006.5	+8	W'S	3	bc	46	75	6	5	3	-	2-3	4-6	5700	1	*
	Croydon	1006.8	+4	WSW	3	bc	46	75	6	-	4	-	0	2-3	—	1	*
	S. Farnborough	1007.1	+8	W	3	bc	46	75	7	5	-	-	4-6	4-6	5700	1	*
	Boscombe Down	1008.1	+6	W'N	4	bc	45	85	7	5	3	-	1	2-3	4000	0	
	Calshot, S'thmtn	1008.0	+6	WSW	4	bc	49	75	8	5	-	-	4-6	4-6	2500	0	2
	Dungeness	*	*	W	2	c	*	*	6	5	-	*	7-8	7-8	2500	*	3
	Lympne	1006.5	+10	WNW	3	3o	46	75	5	5	-	-	4-6	4-6	4000	1	*
2	Shoeburyness	1005.1	+6	WNW	3	pr₀	46	75	7	5	7	-	7-8	9	4000	1	*
	Felixstowe	1004.0	+2	WSW	3	bc	47	75	7	5	4	-	2-3	2-3	4000	0	1
	Gorleston	1002.0	+2	W'S	3	c	46	85	6	4	-	-	7-8	7-8	2500	0	2
	Cranwell	1003.3	0	WSW	4	c	43	85	6	5	-	-	9	9	2500	1	*
3	Birmingham	1006.0	0	WSW	3	c	46	75	7	8	-	-	7-8	7-8	2500	1	*
	Upper Heyford	1006.7	+6	W'N	4	bc	44	75	8	5	-	-	2-3	2-3	2500	1	*
4	Ross-on-Wye	1007.5	0	W'N	4	bc	48	75	8	8	-	-	4-6	4-6	4000	1	*
5	Portland Bill	1009.4	+10	NW	5	c	53	95	7	5	7	-	7-8	7-8	2500	0	4
	Plymouth	1011.6	+4	W	3	3o	52	65	6	5	-	-	9	9	4000	1	2
	The Lizard	1013.5	+4	NW'W	5	c	53	65	8	8	-	-	9+	9+	2500	1	3
	Scilly (St. Mary's)	1015.1	+6	NW'W	3	c/pr	51	85	8	8	-	-	9+	9+	2500	1	2
	Guernsey	1011.8	+18	NNW	5	o	53	75	8	5	-	-	10	10	2500	1	4
6	Pembroke	1009.7	+6	NW	4	pr₀	51	75	6	6	2	-	7-8	9	800	1	3
7	Holyhead	1007.6	+6	NW'W	7	c/pr	51	75	8	6	-	-	10	10	1500	1	4
	Chester (Sealand)	1004.8	+2	WNW	6	pr	49	75	6	9	-	-	7-8	7-8	1500	1	*
8	L'pool (Bidston)	1004.3	+6	NW	5	PR	46	85	8	9	-	-	9+	9+	1500	1	
	Manchester	1003.8	+6	NW	4	r₀r₀	44	85	6	9	3	-	7-8	7-8	1500	1	*
9	Harrogate	1001.1	0	SW	4	bc	42	85	7	3	3	-	Tr	2-3	2500	1	*
10	Spurn Head	998.3	0	W	6	c	46	95	6	5	7	-	4-6	9	1500	0	4
	Catterick	1000.3	+4	W'N	4	b	44	75	8	4	-	3	1	1	4000	1	*
	Tynemouth	998.8	+6	W	4	bc	43	75	6	2	-	-	2-3	2-3	2500	1	1
11	Inchkeith	998.2	0	W	5	bc	44	75	8	5	-	-	2-3	2-3	4000	0	3
	Leuchars	998.2	+10	WNW	4	b	42	65	9	8	-	-	1	1	2500	1	*
12	Renfrew (Abbotsinch)	1000.6	+8	WNW	4	bc	43	75	8	9	-	-	2-3	2-3	2500	1	*
	Eskdalemuir	1000.6	+12	WNW	5	b	40	75	8	5	-	-	Tr	Tr	1500	1	*
13A	Tiree	1002.9	+18	N'W	7	pr	47	85	6	3	8	3	4-6	7-8	800	1	4
13B	Stornoway	998.9	+14	NW	5	c/pr	43	85	7	8	6	-	4-6	7-8	1500	1	2
15	Dalwhinnie	999.1	+2	NW	4	ir	37	85	8	4	2	-	7-8	10	800	1	3
	Aberdeen	995.6	+8	W'N	5	b	41	95	8	8	4	-	1	1	4000	1	1
	Wick	993.5	+8	NW	3	c/pr	40	95	8	9	1	-	4-6	9	1500	1	2
16	Lerwick	991.5	+16	NNW	3	bc	41	75	8	8	7	-	2-3	4-6	1500	0	*
17	Blacksod Point	1013.3	+14	WNW	6	q	49	75	8	9	-	-	10	10	800	1	4
18	Malin Head	1005.5	+12	NW	6	c	50	75	7	6	-	-	9+	9+	1500	1	4
	Aldergrove	1006.5	+10	W	4	c	45	75	8	8	-	-	7-8	7-8	1500	1	
	Donaghadee	1005.0	+8	WNW	3	pr₀	45	85	8	9	-	-	7-8	7-8	1500	1	2
19	Birr Castle	1011.0	+6	WNW	3	c	48	85	8	9	-	-	9+	9+	2500	1	*
20	Valentia Obsy.	1016.9	+12	NW	6	c	53	55	8	5	-	-	10	10	1500	1	3
	Roches Point	1013.7	+6	NW	3	c	51	85	8	3	-	-	7-8	7-8	2500	0	3

PAST 24 HOURS. — WEATHER.

District	Stations.	7h.–13h. 31st (37)	13h.–18h. 31st (38)	18h. 31st to 1h. 1st (39)	1h.–7h. 1st (40)
1	London (Kew)	cr₀m₀	cpr₀rc	bcm₀	bc
	Croydon	cr₀r₀m₀	cprm₀pr₀b	bcb	bcw
	S. Farnborough	ccvc	cpr₀b	~~bcbc~~	~~bbcb~~
	Boscombe Down	ccr₀	cbccpr₀	bccbc	bcb
	Calshot, S'thmtn	cr₀mc	cbc	bc	bcbw
	Dungeness	o	bc		bc
	Lympne	ccpr₀	cpr₀cm₀	bcbw	bvbc
2	Shoeburyness	cir₀m₀	cm₀cpr₀m₀	cpr₀bc	bcbw
	Felixstowe	ccr₀	cbc	bccp₀	bcb
	Gorleston	cir₀c	cbcc	cbc	bcl
	Cranwell	cr₀prqc	cpr	cpm₀	bmcw
3	Birmingham	cpr	cpr	cpror	orc
	Upper Heyford	cpr₀	r₀Rqbc	bccr₀	crr₀bc
4	Ross-on-Wye	cd₀c	cbcc	dcpbc	bcb
5	Portland Bill	cpr₀	c	cPRc	bcc
	Plymouth	cprkq	cm₀pr₀	cm₀p₀rb	b-c
	The Lizard	cpr₀c	cpr₀c	cq	cq
	Scilly (St. Mary's)	cp₀	cp₀	cp₀q	cp₀qc
	Guernsey	cod₀	oid₀	cbc	cbc
6	Pembroke	cqpr₀cq	cqpr₀c	cq	bcqc
7	Holyhead	cpr₀	cprqc	cqd c	cpr₀
	Chester (Sealand)	cprq	PRqc	rQR	prqbc
8	L'pool (Bidston)	cqprc	cqPRq	cpr	cqPR
	Manchester	cprq	cqhrrsc	crpc	cbw
9	Harrogate	cbc	cb	b	b
10	Spurn Head	cpr	bc	bc	bc
	Catterick	bcybc	bccpr	b	b
	Tynemouth	bc	bcq	bbc	bc
11	Inchkeith	c	cbc	bc	bcc
	Leuchars	bqybcv	bcbvq	bqbcw	bcvw
12	Renfrew (Abbotsinch)	bccprq	bccprqbc	b-cqp₀b	b-bcc
	Eskdalemuir	b, cpr	cprb	b	bbcc
13A	Tiree	PHRq	PHRq	bcprq	cir₀q
13B	Stornoway	cphrq	cphr	cpr	cpr
15	Dalwhinnie	isbc	is		irc
	Aberdeen	~~bcbq~~	bcbq	crir₀	crbcb
	Wick	cir₀	cpr	cpr	cpr
16	Lerwick	c	cbcpr₀	bccphr	crnPR
17	Blacksod Point	cq	prcq	prcq	prcq
18	Malin Head	cqhr	cpr₀	cqhr₀	cqr₀
	Aldergrove	cpr₀	cprc	cp₀	cb-c
	Donaghadee	cpr₀	cpr₀	prcq	cq
19	Birr Castle	cor₀	or₀c	r₀c	cbc
20	Valentia Obsy.	cpr₀c	cpr₀cy	cycpr₀	cpr₀qc
	Roches Point	c	cp₀c	cbc	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. ≋ gale.

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.

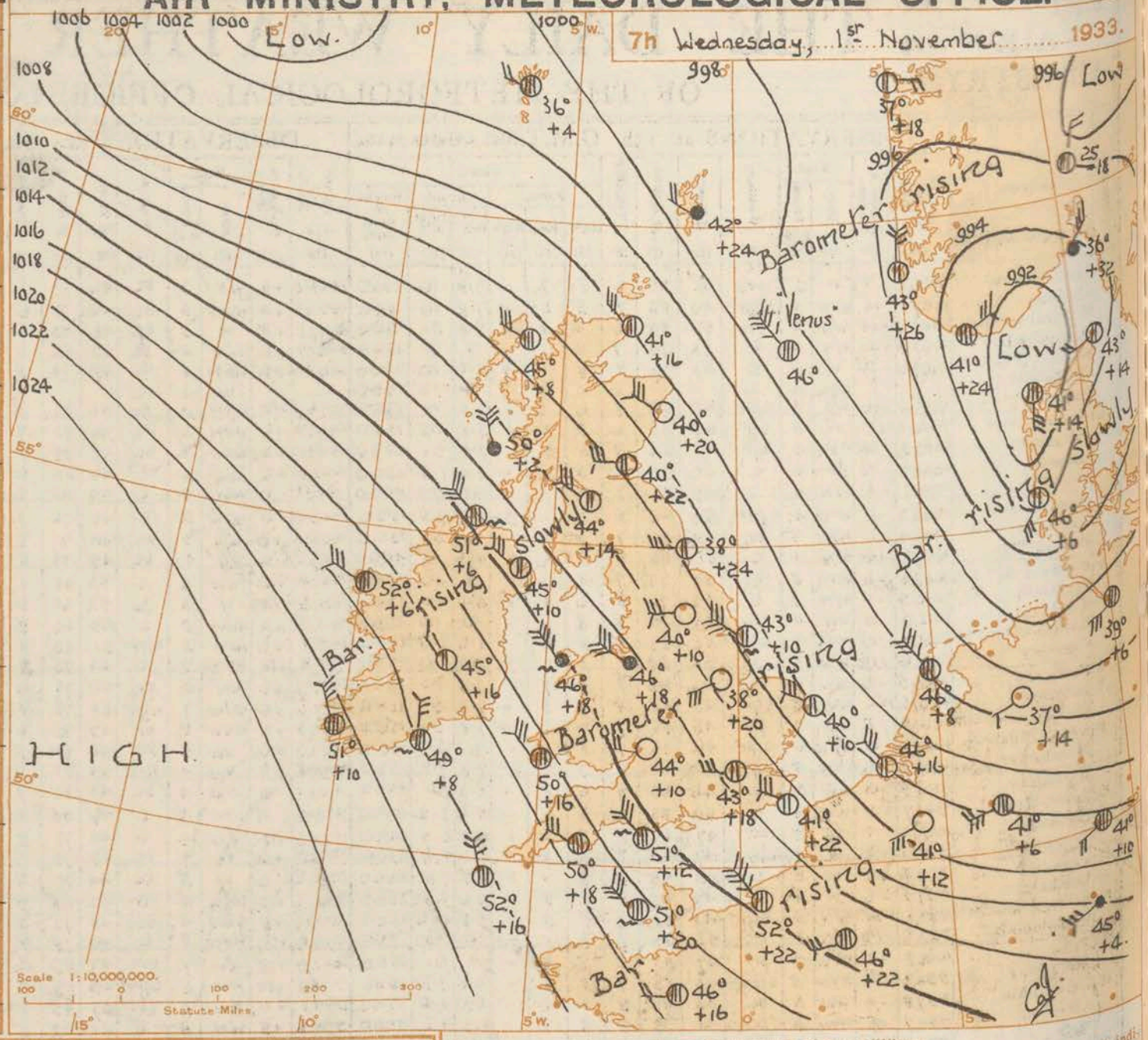
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for 31st October 1933.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 30th to 9h. 31st	Temperature. Max. 9h.—17h. 31st	Rainfall. Night. 17h. 30th to 9h. 31st	Rainfall. Day. 9h.—17h. 31st	Sunshine. Sunrise to Sunset. 31st
1	Tunbridge W.	o	opcbc	35	51	0.5	Trace	0.7
	Bournemouth	o	o	40	53	–	–	0.1
	Ventnor ...	ouor	rcocu	44	53	–	1	0.1
	Southsea ...	o	o	42	54	–	–	0.0
	Bognor Regis	coro	o	40	52	–	Trace	0.0
	Littlehampton	cpcbc	bc	39	53	0.1	Trace	0.0
	Worthing ...	or	oc	38	53	–	0.3	0.0
	Brighton ...	c	cpcbc	40	53	–	Trace	0.1
	Eastbourne†	or o	ocbc	43	53	–	0.1	0.0
	Hastings† ...	cod o	ocbc	39	52	–	0.2	0.0
	Folkestone ...	oid	ocbc	40	51	–	0.2	0.0
	Dover... ...	cir	cbc	43	53	–	Trace	0.0
	Deal	oid	o	42	51	–	Trace	0.0
	Ramsgate ...	c	c	41	51	–	–	0.1
	Margate ...	cd	c	41	51	–	Trace	0.0
2	Southend ...	odo	corg	40	50	–	0.2	0.0
	Maldon ...	dc	cpc	39	50	Trace	1	0.5
	Clacton-on-Sea	cpc	cbc	41	49	–	0.5	0.1
	Dovercourt ...	dbc	bc	41	50	Trace	–	0.2
	Lowestoft ...	cprc	cbc	39	50	1	Trace	1.0
	Skegness ...	bcc	cbc	40	50	Trace	Trace	1.2
	Mablethorpe	cbcbc	bccor	40	45	0.5	Trace	3.0
	Cleethorpes ...	c	c	42	51	1	–	2.3
3	Leamington S.	gbc	cprco	37	52	0.4	0.5	1.4
4	Cheltenham†	omirc	cbc	39	50	0.3	0.3	0.7
5	Bath	cir	ircbc	39	53	Trace	Trace	0.0
	Weymouth ...	c	c	41	55	–	–	0.2
	Jersey ...	rc	bc	48	56	2	1	0.0
	Torquay ...	cw	obcgip	42	55	–	Trace	1.3
	Penzance ...	copcc	cbpc	46	54	1	0.5	0.3
	St. Ives ...	cpr	c	46	54	Trace	0.5	0.3
	Bude	bc	bc	48	56	0.5	–	0.3
	Ilfracombe ...	odc	c	50	54	4	0.1	0.2
6	Aberystwyth	cbr	cbr	44	52	1	2	0.3
7	Llandudno ...	cbc	cip	47	51	3	1	0.2
	Colwyn Bay...	bcpco	obopo	46	52	3	1	0.7
	Rhyl	cpr	cpird	47	51	6	1	0.6
8	Wallasey ...	cbc	cPHo	47	52	4	2	1.1
	Southport‖ ...	ocobc	cor	45	52	2	4	1.2
	Blackpool ...	roc	cp	46	51	4	4	0.6
	Morecambe ...	rcbcr	ribcc	42	49	4	5	1.6
9	Ilkley... ...	bcc	bcbrc	40	50	2	Trace	2.4
10	Berwick-on-T.	obcc	cobc	38	48	Trace	–	4.4
11	Dunbar ...	roc	bc	40	47	0.3	–	4.8
12	Troon... ...	rorow	orcro	44	50	2	6	1.3
	Douglas ...	cbgcid	cbgcid	45	50	0.5	0.3	2.7

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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 Nov. 1933.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Moderate or fresh squally, northwest wind, backing west temporarily; cloudy, bright intervals, slight local showers; probably occasional rain later; moderate temperature.
5. S.W. England 6. South Wales	Moderate to strong northwest wind; cloudy, bright intervals, some showers; moderate temperature.
7. North Wales 8. N.W. England 9. N Midlands 10. N.E. England	Fresh or strong squally northwest wind, backing west, veering again later, perhaps gale locally; showers or occasional rain; bright intervals; moderate temperature; somewhat colder tomorrow.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Moderate or fresh northwest to west wind, veering north later, strong locally; showers and bright intervals; occasional rain during night; moderate temperature; colder tomorrow.
13. A. W Scotld. B. N.W. Scotland. 14. Mid-Scotland	Wind backing west, veering north later; strong at times, perhaps gale locally; cloudy, occasional rain; bright intervals and local showers later; moderate temperature; colder tomorrow.
15. N.E. Scotland 16. Orkneys and Shetlands.	Wind westerly to variable, finally northerly, strong locally later; cloudy, occasional rain; showers later, with sleet locally; rather cold, especially later.
17. N.W. Ireland 18. N.E. Ireland	As 7 - 8.
19. S.E. Ireland 20. S.W. Ireland	As 5 - 6.

GENERAL INFERENCE.

Pressure is low over Scandinavia and high off our Southwest coasts. A secondary south of Iceland is moving southeast. There will be bright intervals and local showers today and occasional rain in most districts tonight.

FURTHER OUTLOOK.

Bright intervals and local showers; somewhat colder.

Time of issue of Gale Warnings.

North Cone at 0815 on 31st in districts 7,8,12,13,17 and 18.

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.

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 1st November 1933.

No. 26,277

OBSERVATIONS at 1 hr. G.M.T. 1st November

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	1007·6	+6	W'S	3	bc	44	85	8	-	3	-	0	2·3	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1007·3	+2	W	4	b	43	85	8	5	3	-	Tr	Tr	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	~~1001·3~~ 1003·1	+10	WNW	3	bc	42	85	7	4	-	-	4-6	4-6	2500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1012·3	+10	NW	5	bc	52	95	7	5	-	-	2-3	2-3	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1015·4	+6	WNW	5	q	51	75	8	8	6	-	4-6	7-8	2500
	Scilly (St. Mary's)	163	1016·8	+6	NW'N	5	c	51	75	8	5	-	-	10	10	2500
	Guernsey ...	175	1013·0	+8	NW	5	c	52	75	8	8	-	-	7-8	7-8	2500
6	Pembroke ...	142	1012·4	+16	NW	5	q	50	75	7	4	7	-	4-6	7-8	2500
7	Holyhead ...	26	1010·8	+16	NW'W	7	q	50	75	8	2	-	-	9+	9+	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1002·1	+6	WNW	6	bc	43	95	7	-	2	-	0	2·3	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	100	1001·7	+20	W	3	bc	40	85	7	2	-	-	2·3	2·3	2500
11	Inchkeith ...	190	1003·7	+24	W	3	bc	43	75	8	4	-	-	2·3	2·3	4000
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts I.)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1004·0	+20	NW	3	c	42	85	7	8+	6	-	4-6	7-8	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	999·5	+24	NW	5	pr	41	95	8	9	1	1	7-8	9	1500
16	Lerwick ...	54	994·0	+10	NW	4	ojp	41	95	7	9	-	-	7-8	7-8	1500
17	Blacksod Point	18	1017·0	+8	WNW	6	q	49	85	7	9	-	-	10	10	450
18	Malin Head ...	52	1009·7	+12	NNW	6	q	48	85	7	6	-	-	9+	9+	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1020·0	+10	NW	6	c	51	95	8	8	-	-	9+	9+	1500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 1st November — 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 31st Hrs. (36)
London (Kew)	1011·1	+16	W'S	2	bc	43	85	7	5	8	-	2-3	4-6	2500	1	*	53	43	38	0.3	-	~~0·0~~ 1·1
Croydon	1010·9	+18	W	3	bc	43	85	8	4	3	-	4-6	7-8	4000	1	*	52	42	39	0.6	Tr	1·4
S. Farnborough	1011·6	+18	W'N	4	bc	43	75	7	5	-	-	2-3	2-3	2500	1	*	52	41	33	0.1	-	1·1
Boscombe Down	1012·6	+20	WNW	4	bc	43	85	7	5	-	-	Tr	Tr	4000	0	*	51	42	39	0.2	-	0·1
Calshot	1012·5	+22	W	4	bc	44	85	7	-	3	-	0	Tr	-	0	2	53	44	39	Tr	-	0·1
Dungeness	*	*	W	2	bc	*	*	7	5	-	*	4-6	4-6	2500	*	2	54	40	*	—	-	*
Lympne	1010·1	+22	WNW	4	bc	41	85	8	5	-	-	4-6	4-6	2500	1	*	49	40	37	Tr	-	0·0
Shoeburyness	1008·8	+20	WNW	3	bc	43	95	7	5	-	-	Tr	Tr	4000	1	*	53	42	37	1	3+	0·4
Felixstowe	1009·1	+22	WNW	3	bc	43	85	8	1	-	-	Tr	Tr	2500	1	1	50	42	39	0.1	0·5	0·1
Gorleston	1005·4	+10	WNW	4	bc	40	85	6	8	-	-	2-3	2-3	2500	0	2	51	39	35	0.5	-	2·1
Cranwell	1008·5	+20	W'S	3	bc	38	85	6	2	5	-	Tr	Tr	5700	1	*	48	37	33	0.1	-	0·6
Birmingham	1011·3	+18	WNW	4	bc	43	85	7	5	7	-	2-3	4-6	2500	1	*	51	41	38	3	6	1·4
Upper Heyford	1011·5	+20	WNW	5	bc/r	43	85	8	5	-	-	4-6	4-6	800	1	*	51	41	36	2	1	*
Ross-on-Wye	1012·7	+10	W	2	bc	44	85	8	5	-	-	1	1	4000	1	*	51	43	36	Tr	0·4	0·8
Portland Bill	1013·8	+12	NW	5	c	51	95	7	5	-	-	7-8	7-8	1500	·1	4	55	50	*	Tr	1	*
Plymouth	1016·7	+18	WNW	4	c	50	75	8	5	-	-	9+	9+	1500	1	2	55	50	46	0.3	0·1	0·1
The Lizard	1018·3	+10	NW	4	c	50	75	8	4	-	-	9	9	2500	0	3	54	49	*	1	-	*
Scilly (St. Mary's)	1020·0	+16	NNW	5	c	52	65	8	5	-	-	9+	9+	2500	1	3	54 (5)	49	*	0.5	0·2	0·8
Guernsey	1015·9	+20	NW	6	bc	51	65	7	8	-	-	7-8	7-8	1500	0	4	55	51	45	1	—	0·1
Pembroke	1015·1	+16	NW	4	cq	50	75	7	4	7	-	4-6	9	2500	0	3	53	49	*	Tr	Tr	0·7
Holyhead	1013·2	+16	NW'W	7	cpr	50	75	7	3	-	-	7-8	7-8	2500	1	4	52	48	45	2	0·5	0·8
Chester (Sealand)	1011·1	+18	NW'W	6	bcpr	46	85	8	9	-	-	4-6	4-6	1500	1	*	51	45	44	2	9	0·4
L'pool (Bidston)	1011·4	+18	NW	6	c/pr	45	85	8	6	2	-	7-8	10	1500	1	*	50	44	42 (40)	2	3	1·0
Manchester	1009·8	+20	NW	4	bc	43	85	7	8	4	-	Tr	Tr	2500	1	*	50	42	36	7	3	*
Harrogate	1008·3	+10	W	4	bc	40	75	9	2	4	-	Tr	Tr	4000	1	*	48	38	32	—	-	3·6
Spurn Head	1005·3	+10	WNW	6	bc	43	95	7	5	3	-	1	2-3	2500	0	4	50	43	*	0.2	-	2·2
Catterick	1008·1	+24	WNW	3	bc	41	75	8	-	4	-	0	Tr	-	1	*	49	41	36	0.2	-	*
Tynemouth	1006·5	+24	W	3	bc	38	85	6	2	-	-	2-3	2-3	2500	1	2	48	38	34	—	-	*
Inchkeith	1007·6	+30	SW	3	c	42	75	8	5	7	-	4-6	9	2500	0	2	49	42	38	—	-	3·6
Leuchars	1006·8	+22	W	4	bc	40	75	9	8	5	-	1	4-6	2500	1	*	48	39	33	—	-	7·4
Renfrew (Abbotts I.)	1008·4	+14	WNW	4	bc	44	75	8	8	3	-	4-6	4-6	2500	1	*	47	39	33	1	0·1	2·8
Eskdalemuir	1008·8	+24	W	2	c	38	85	8	5	-	-	9	9	5700	1	*	45	36	33	1	-	3·6
Tiree	1009·7	+2	NNW	5	ir°	50	85	7	5	2	-	4-6	10	2500	1	3	50	45	42	2	1	1·2
Stornoway	1006·4	+8	WNW	3	c	45	75	7	5	2	-	9	10	1500	1	1	47	40	*	3	3	2·5
Dalwhinnie	1007·7	+10	NW	2	c	39	85	7	4	2	-	4-6	9	1500	1	*	39	36	29	13	3	0·4
Aberdeen	1004·5	+20	WNW	4	bc	40	75	8	3	7	-	Tr	Tr	4000	1	1	46	38	34	—	2	6·9
Wick	1003·5	+16	NW	3	c/pr	41	95	8	9	1	-	4-6	7-8	1500	1	2	44	38	*	2	5	*
Lerwick	998·9	+24	W'N	2	cPR	~~36~~ 42	95	7	9	2	-	7-8	9	800	1	*	47	38	*	Tr	4	5·7
Blacksod Point	1018·7	+6	WNW	4	o	52	85	7	8	-	-	10	10	450	1	3	51	47	*	1	2	*
Malin Head	1012·0	+6	NW'W	6	c	51	85	7	6	8	-	4-6	9	1500	1	4	50	44	*	1	1	0·3
Aldergrove	1012·6	+10	WNW	4	bc	45	85	8	8	-	-	4-6	4-6	2500	1	*	49	43	36	0.4	0·2	1·8
Donaghadee	1011·7	+16	NW	4	cq	46	75	8	9	2	-	4-6	7-8	1500	0	2	50	43	*	1	0·3	*
Birr Castle	1017·3	+16	WNW	1	bc	45	95	8	5	-	-	2-3	2-3	2500	1	*	51	43	39	0.3	Tr	0·4
Valentia Obsy.†	1022·1	+10	NW'N	4	c/pr	51	85	8	8	-	-	9	9	1500	1	3	53	49	46	Tr	0·6	0·1
Roches Point	1018·9	+8	N	4	c	49	85	8	3	-	-	7-8	7-8	2500	0	4	54	48	*	0.1	0·2	*

LONDON OBSERVATIONS.

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

Station	Height above M.S.L. in feet	Weather Morning	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.
		24 hrs. ended 9h.											
Kew	18	cr°m°	cpr°rc	bcm°	53	43	38	0·3	-	~~0·0~~ 1·1	*	*	7
Croydon	217	cr°r°m°	cpr°m°p°bc	bcbw	52	42	39	0·6	Tr	1·4	*	*	6
Greenwich (Royal Observatory)	149	ci.d	crbm	bcdbc	52	43	35	1	Tr	0·2	70	71	5
City (Bunhill Row)	—									0·3	*	*	*
Westminster (St. James' Park)	27	*	*	*	53	42	35	0·6		0·5	86	74	*
‡Regents Pk. (Botanic Gardens)	168	*	*	*	52	43	37	0·3		0·6	72	77	*
Camden Square	110	c	ccpb	*	52	43	37	0·5	—	*	*	91	*
Kensington	80	cpbc	bc	*	53	43	35	Tr	-	0·6	At 18h. 71	77	*
Hampstead Observatory	450	b	bcp	bc	50	40	31	0·3	—	1·0	*	83	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 1st

	Max.	Time.	Min.	Time.
South Kensington	0·6	17h-18h 31st	NIL	1h-5h 1st
Kew Observatory	0·2	20h 31st	<0·1	2h-6h 1st

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 31st October: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 1st November: 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	1010·3	SW	6	r°r°	48	1012·6	W	4	c	46	52	46	0·1	1
Brussels	1006·7	SW	4	ojp	43	1006·1	WSW	3	b	41	*	41	7	3
Berlin	1006·6	SSW	5	c	43	1000·6	SSW	5	r°r°	43	48	43	1	4
Zürich	1016·3	WSW	3	c	43	1013·0	WSW	5	r°r° q	41	43	41	Tr	1
Rome	1017·5	SW	3	bc	46	*	SE	1	bc	48	63	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 " 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.

† The observations are from Valentia W/T station ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

THURSDAY ~~WEDNESDAY~~ 2nd November 1933.

No. 26,278

OBSERVATIONS at 13h. G.M.T. 1st 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)	1014.5	+10	WNW	4	c	50	65	6	5	3	-	4-6	9+	2500
	Croydon	1014.4	+12	W'N	4	c	49	65	6	5	7	-	7-8	9+	1500
	S. Farnborough	1015.1	+10	NWW	5	c	51	65	8	5	7	-	7-8	9+	2500
	Boscombe Down	1016.0	+12	WNW	3	c	52	65	7	7	3	-	7-8	9	2500
	Calshot, S'thmtn	1016.3	+12	WNW	4	bc	52	65	8	7	3	-	2-3	4-6	4000
	Dungeness	*	*	NW	3	c	*	*	7	8	7	*	7-8	9	2500
	Lympne	1013.4	+14	NWW	4	c	48	65	7	5	3	-	7-8	9+	1500
2	Shoeburyness	1012.6	+14	NWW	3	c	50	65	7	8	3	-	7-8	9+	2500
	Felixstowe	1011.8	+16	WNW	4	c	48	65	8	1	5	-	1	7-8	2500
	Gorleston	1009.5	+14	NW	5	bc	47	75	6	9	9	-	2-3	4-6	2500
	Cranwell	1011.9	+10	NWW	4	zo	47	65	6	5	7	-	7-8	10	5700
3	Birmingham	1014.6	+12	WNW	3	c	49	75	6	6	3	-	4-6	9	1500
	Upper Heyford	1014.8	+10	WNW	5	cjp	49	75	8	6	-	-	9+	9+	1500
4	Ross-on-Wye	1015.5	+10	NWW	3	c	52	65	8	8	-	9	7-8	7-8	4000
5	Portland Bill	1017.2	+12	NNW	5	bc	54	85	7	5	-	-	4-6	4-6	2500
	Plymouth	1020.1	+14	NW	5	c	54	65	8	8	-	9	7-8	7-8	2500
	The Lizard	1022.0	+10	NW'W	4	bc/pr	53	75	8	8	6	-	2-3	4-6	4000
	Scilly (St. Mary's)	1023.4	+10	NNW	4	bc	55	75	8	1	-	-	4-6	4-6	4000
	Guernsey	1019.7	+16	NNW	4	c	53	75	8	8	-	-	9+	9+	1500
6	Pembroke	1019.1	+12	WNW	4	q	53	75	7	2	1	1	2-3	4-6	2500
7	Holyhead	1015.7	+2	W'N	6	c	53	85	7	6	7	-	2-3	9+	1500
	Chester (Sealand)	1013.8	0	W'N	6	c	52	75	7	5	3	-	4-6	9	1500
8	L'pool (Bidston)	1013.2	0	WNW	6	PR	49	95	7	6	2	-	9	10	1500
	Manchester	1012.8	+2	NWW	4	dr	49	95	5	6	-	-	10	10	800
9	Harrogate	1011.1	+10	W	3	c	46	75	8	-	2	-	0	10	—
10	Spurn Head	1009.6	+8	WNW	6	c	48	75	7	5	7	-	7-8	9	2500
	Catterick	1010.4	+6	W'N	3	iro	47	75	7	5	-	-	10	10	4000
	Tynemouth	1010.2	+4	W	3	c	45	75	6	5	-	-	7-8	7-8	1500
11	Inchkeith	1008.4	-14	~~E~~ SW	~~4~~ 3	roro	45	85	5	6	2	-	4-6	10	1500
	Leuchars	1008.1	-8	SW	3	roro	45	75	7	5	2	-	4-6	10	2500
12	Renfrew (Abbotts I.)	1008.2	-14	SSW	1	ido	48	95	6	5	2	-	7-8	10	2500
	Eskdalemuir	1009.9	-8	SSW	3	rr	42	~~75~~	6	6	-	-	10	10	220
13A	Tiree	1008.6	-4	NW'W	6	RR	53	95 [95]	6	6	-	-	10	10	1500
13B	Stornoway	1003.8	-22	WSW	2	c/r	48	95	8	8	6	-	4-6	10	1500
15	Dalwhinnie	1006.4	-16	W	2	c	44	85	8	4	2	-	7-8	10	800
	Aberdeen	1006.5	+4	WNW	3	c	46	65	6	8	3	-	2-3	9+	4000
	Wick	1004.4	-4	W	3	c	45	95	8	8	3	-	4-6	9	1500
16	Lerwick	1001.8	+10	NW	2	c/pr	45	85	7	8	9	-	4-6	7-8	1500
17	Blacksod Point	1021.0	+6	WNW	4	c	54	95	8	5	-	-	10	10	450
18	Malin Head	1012.6	+2	WNW	6	zo	54	95	6	6	7	-	4-6	9+	1500
	Aldergrove	1013.9	+6	W	5	iro	53	85	7	6	7	-	4-6	9+	800
	Donaghadee	1012.3	0	NW	2	ido	52	85	7	5	-	-	7-8	7-8	1500
19	Birr Castle	1020.2	+6	NW	3	iro	54	85	7	5	-	-	9+	9+	2500
20	Valentia Obsy.	1025.0	+10	W'N	5	bc	55	75	8	5	-	-	4-6	4-6	1500
	Roches Point	1022.5	+6	NW	4	bc	55	85	8	3	-	-	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 1st November

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)	1014.4	0	WSW	3	o	51	75	7	5	-	-	10	10	2500	1	*
Croydon	1014.5	0	WSW	4	iro	51	75	6	5	2	-	7-8	10	1500	1	*
S. Farnborough	1015.4	+4	WSW	4	iro	51	75	7	5	2	-	9+	10	2500	1	*
Boscombe Down	1016.4	+4	W	4	c	50	85	7	5	-	-	9	9	1500	0	
Calshot, S'thmtn	1017.0	+6	WSW	4	c	51	85	8	5	3	-	4-6	7-8	2500	0	1
Dungeness		*	W	3	iro	*	*	7	9	-	*	10	10	1500	*	2
Lympne	1014.8	+6	WSW	2	roro	46	75	5	6	-	-	10	10	800	1	*
Shoeburyness	1013.8	+6	SW'W	2	roro	47	85	6	5	-	-	10	10	1500	1	*
Felixstowe	1012.5	+4	WSW	3	roro	47	85	6	6	-	-	10	10	1500	1	1
Gorleston	1010.6	+4	W'N	3	roro	46	85	6	6	-	-	10	10	1500	0	2
Cranwell	1010.6	-12	WSW	3	roro	47	95	4	6	-	-	10	10	800	1	*
Birmingham	1013.9	-2	WSW	3	c	51	85	7	5	-	-	7-8	7-8	1500	1	*
Upper Heyford	1014.5	0	W	4	c	50	85	8	5	3	-	9	9+	1500	1	*
Ross-on-Wye	1015.7	-4	W'S	3	ido	53	75	8	8	7	-	9+	10	2500	1	*
Portland Bill	1017.8	+6	WNW	5	c	54	95	7	5	-	-	7-8	7-8	1500	0	3
Plymouth	1021.2	+8	W'N	4	zo	53	85	6	4	-	-	9	9	4000	1	2
The Lizard	1023.4	+8	WNW	4	c	53	85	8	4	-	-	9	9	4000	1	2
Scilly (St. Mary's)	1024.6	+4	NW'W	5	c	53	85	8	5	4	-	4-6	7-8	4000	0	3
Guernsey	1020.9	+14	NNW	5	c	53	65	8	8	3	-	4-6	7-8	2500	0	4
Pembroke	1019.6	+4	WNW	4	q	55	~~95~~ 85	7	4	7	-	7-8	9+	2500	0	2
Holyhead	1015.8	+8	W'N	6	c	55	85	8	5	3	-	2-3	9+	1500	1	4
Chester (Sealand)	1013.4	+4	W'N	6	c/r	54	75	6	5	-	-	9	9	1500	1	*
L'pool (Bidston)	1012.5	+2	WNW	7	c/pr	52	95	7	9	-	-	9	9	2500	1	*
Manchester	1011.6	0	NW'N	6	o/r	53	85	6	6	-	-	10	10	800	2	*
Harrogate	1008.6	-14	W	4	ir	50	95	7	6	-	-	9+	9+	2500	1	*
Spurn Head	1009.2	0	S	3	rr	44	95	5	6	-	-	10	10	800	1	2
Catterick	1008.2	-2	S'E	1	c/r	44	95	6	5	-	-	9	9	1500	1	*
Tynemouth	1007.6	-10	SW	2	o/r	45	95	4	6	-	-	10	10	1500	1	2
Inchkeith	1006.5	-6	SW	3	iro	49	95	6	8	-	-	9+	9+	1500	1	2
Leuchars	1006.1	-8	W	2	~~[illegible]~~ iro	43	95	5	5	7	1	4-6	4-6	2500	1	*
Renfrew (Abbotts I.)	1007.0	+2	W	4	c	50	95	7	8	-	-	9	9	2500	1	*
Eskdalemuir	1007.9	+2	W'N	4	iro	50	85	8	6	-	-	9+	9+	2500	1	*
Tiree	1009.6	+10	NNW	6	c	51	85	6	8	7	-	7-8	~~4-6~~ 7-8	1500	1	4
Stornoway	1005.0	+10	WNW	4	PR	47	85	7	8	6	-	4-6	4-6	1500	1	2
Dalwhinnie	1006.1	+2	WNW	2	c	46	75	8	3	2	-	4-6	10	1500	1	
Aberdeen	1004.7	-14	S	2	iro	42	95	6	6	-	-	10	10	800	1	1
Wick	1002.7	-16	SSW	3	iD	44	95	5	9	2	-	7-8	10	1500	1	2
Lerwick	1002.4	+2	-	0	c	42	95	7	5	7	-	4-6	9	1500	1	*
Blacksod Point	1021.2	+6	WNW	5	c	54	85	8	5	-	-	10	10	450	1	4
Malin Head	1012.5	+2	WNW	6	q	54	95	6	6	-	-	9+	9+	1500	1	4
Aldergrove	1013.9	+2	W	5	c	52	75	7	5	-	-	9+	9+	1500	1	*
Donaghadee	1012.6	+2	NW	3	c	52	85	7	5	-	-	7-8	7-8	1500	1	2
Birr Castle	1019.8	+6	NW	3	c	52	85	7	5	-	-	9+	9+	2500	1	*
Valentia Obsy.	1025.6	+6	W'N	5	bc	54	85	8	5	-	-	4-6	4-6	1500	1	3
Roches Point	1022.5	+6	NW	4	c	54	85	8	3	-	-	7-8	7-8	2500	0	3

PAST 24 HOURS. WEATHER.

Stations	7h.–13h. 1st (37)	13h.–18h. 1st (38)	18h. 1st to 1h. 2nd (39)	1h.–7h. 2nd (40)
London (Kew)	bcc	co	bcω	bccrbc
Croydon	bcczo	czoiro	idocbc	rororrbc
S. Farnborough	bccpoc	c	pocbcc	cbccpo
Boscombe Down	bbcc	cbcc	cbcc	cproc
Calshot, S'thmtn	bc	bcc	c	ciroc
Dungeness	bc	o		r
Lympne	bcc	cmo	roc	cpr
Shoeburyness	bbcc	cmororm o	ororocbc	bcc
Felixstowe	bbc	bccorrozo	ororrrzopo	ccro
Gorleston	bcq	bccq	olroro	orcq
Cranwell	bmoc	corrfdd	crccr [r]	~~clrbc~~ cbc
Birmingham	cpro	cpro	c	cpro
Upper Heyford	crobcq	cq	cbc	crriro
Ross-on-Wye	bc	c	cbcc	cqbcq
Portland Bill	c	c	c	cPR
Plymouth	c	bcjpmo	cmoiro	ciro
The Lizard	cqprc	c	cbcq	bcq
Scilly (St. Mary's)	cpobc	bcc	cbcc	c
Guernsey	c	c	cbcc	c
Pembroke	cqbcq	cq	cbcq	bcqprcq
Holyhead	bcproc	proc	cqPR	proqc
Chester (Sealand)	cro	ciro	irocR	croq
L'pool (Bidston)	cqprq	cqprq	pcqPR	cqbcpr
Manchester	bworr	ordrc	crq	crorbc
Harrogate	bbcc	cbcir	cbcp	bcbp
Spurn Head	bcc	corr	orrpr	bc
Catterick	bccoro	ororom o	cbc	cbcb
Tynemouth	bcc	coirm	oirmbc	bcq
Inchkeith	ciro	czoiro	cbc [b]	bc
Leuchars	bcwcroro	iromoro	bcmozcb	bvq
Renfrew (Abbotts I.)	bcciro	~~corrpr~~ [illegible]	cprobc	bcb
Eskdalemuir	corr	drroro [illegible]	robcc	cro
Tiree	corR	cirir	bcpr	Ppro
Stornoway	cprrr	bcqpr	bcprcq	cprq
Dalwhinnie	iro	iro	*	iso
Aberdeen	bcproc	coiro	crc	cprbcbq
Wick	c	Ddmo	Ddmocrr	crrir
Lerwick	cpro	cpro	crorо	crororir
Blacksod Point	iroq	cq	prcq	prc
Malin Head	cproz	cproz	cprzo	cpr
Aldergrove	bccpro	cjp	cproc	cpro-b
Donaghadee	cido	cidoc	iropro	cqpro
Birr Castle	bcciro	crc	c	crbc
Valentia Obsy.	cprocbc	bccbc	bccpro	cproqc
Roches Point	cpobc	bcc	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).
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. gale.

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.

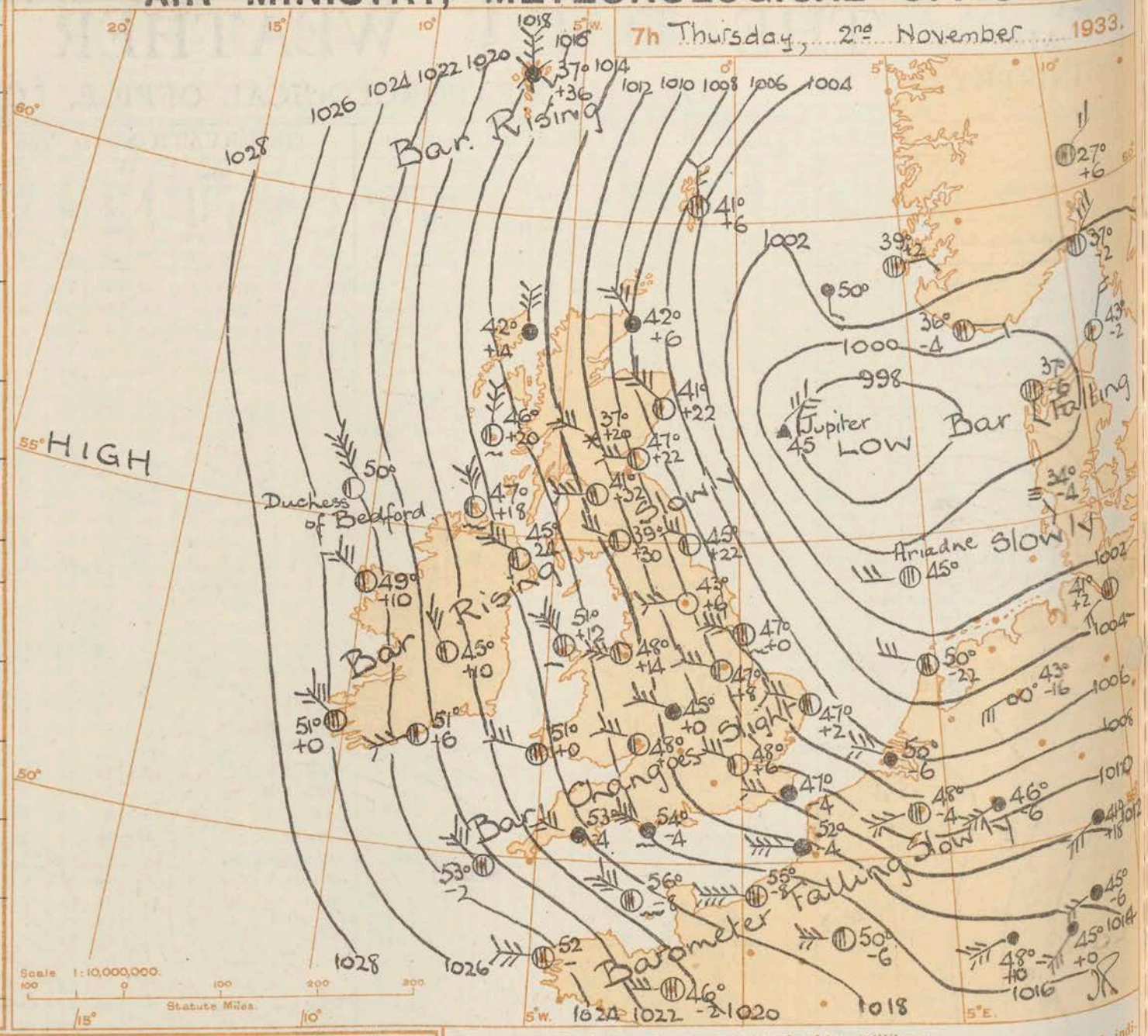
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for 1st NOVEMBER 1933.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 31st to 9h. 1st	Temperature. Max. 9h.—17h. 1st	Rainfall. Night. 17h. 31st to 9h. 1st	Rainfall. Day. 9h.—17h. 1st	Sunshine. Sunrise to Sunset. 1st
1	Tunbridge W.	b.bco	o	40	49	–	–	2.1
	Bournemouth	b	b	43	55	–	–	7.0
	Ventnor ...	xcbu	cubbc	45	55	–	–	6.7
	Southsea ...	bbc	bcb	45	55	–	–	5.3
	Bognor Regis	bbco	ocbc	42	52	–	–	3.7
	Littlehampton	bccpc	cbc	41	54	–	Trace	4.4
	Worthing ...	bbcc	c	42	53	–	–	4.2
	Brighton ...	bc	cbc	43	53	–	–	3.2
	Eastbourne†	bbcco	o	43	52	–	–	2.9
	Hastings† ...	bc	bcco	40	51	–	–	3.2
	Folkestone ...	bc	bccmo	40	50	–	–	3.5
	Dover... ...	bcc	com	43	50	–	–	3.3
	Deal	b	co	42	50	–	–	4.0
	Ramsgate ...	bbc	bcc	42	51	–	–	4.3
	Margate ...	bbc	bcc	48	49	–	–	3.9
2	Southend ...	bbcc	codor	42	50	Trace	Trace	2.6
	Maldon ...	bbcc	cor	42	50	–	Trace	3.2
	Clacton-on-Sea	bcobcc	cm	41	49	0.1	–	3.5
	Dovercourt ...	bcy	bcbcc	41	49	–	–	6.0
	Lowestoft ...	b	b3o	38	49	–	–	7.3
	Skegness ...	bcomo	omor	38	53	Trace	0.4	1.9
	Mablethorpe	bcc	cormo	38	43	–	1	4.1
	Cleethorpes...	bcc	corr	38	48	–	1	1.7
3	Leamington S.	c	oc	42	52	3	–	0.7
4	Cheltenham†	cpoc	cbcc	41	52	–	Trace	2.0
5	Bath	bbc	bbcc	45	56	Trace	–	5.9
	Weymouth ...	bbc	cb	45	56	Trace	–	6.6
	Jersey ...	pc	pc	51	56	0.1	Trace	0.8
	Torquay ...	pbcw	cbcb	48	56	0.3	–	7.4
	Penzance ...	cdoc	bbcb	50	57	Trace	Trace	3.0
	St. Ives ...	oroc	c	49	54	Trace	Trace	2.9
	Bude	cbc	bc	50	55	1	–	2.9
	Ilfracombe ...	oc	co	51	56	–	–	1.8
6	Aberystwyth	cproc	cprc	48	54	1	0.5	1.8
7	Llandudno ...	c	cdoc	48	54	1	Trace	0.4
	Colwyn Bay...	cbcc	cobc	47	54	2	–	0.7
	Rhyl	cproc	c	46	53	7	0.1	0.0
8	Wallasey ...	co	ir	45	52	2	1	0.2
	Southport‖ ...	cor	rocpo	44	54	5	12	0.1
	Blackpool ...	cop	op	44	53	3	1	0.2
	Morecambe ...	cbbcc	rrior	43	52	Trace	4	0.3
9	Ilkley... ...	bcc	r	34	51	–	3	0.8
10	Berwick-on-T.	co	pro	40	46	–	Trace	0.4
11	Dunbar ...	cmo	omo	37	47	–	–	0.0
12	Troon... ...	rooro	ororo	43	54	0.3	6	0.0
	Douglas ...	capir	oirca	43	54	?	1	0.1

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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. Nov., 1933.
1. S.E. England	Moderate or fresh northwest wind, veering north; cloudy, bright intervals, occasional showers; becoming colder.
2. E. England...	Moderate or fresh northwest to north wind, strong locally on coast, perhaps gale at times; cloudy, showery, especially near coast; some bright intervals; becoming colder.
3. E. Midlands	
4. W. Midlands	
5. S.W. England	As 1.
6. South Wales	
7. North Wales	Moderate or fresh, squally northerly wind, strong locally on coast; cloudy, some showers, bright intervals; colder.
8. N.W. England	
9. N Midlands	
10. N.E England	As 2.
11. S.E. Scotland	
12. S.W. Scotland & Isle of Man	Moderate or fresh northerly wind; considerable bright intervals, local showers; colder, ground frost at night.
13. A. W. Scotld. B. N.W. Scotland	Fresh or strong northerly wind, perhaps gale locally at first; cloudy, showery, with snow on hills; bright intervals locally; rather cold.
14. Mid-Scotland	
15. N.E. Scotland	
16. Orkneys and Shetlands.	
17. N.W. Ireland	Moderate or fresh northerly wind, strong locally at first; cloudy, bright intervals, some showers; somewhat colder.
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	

GENERAL INFERENCE.

A depression over the North Sea is moving southeast and an anticyclone centred off Northern Iceland is also moving southeast and is increasing in intensity. Wind will be northerly, strong at exposed places, and there will be bright intervals but also showers, chiefly near the East Coast.

FURTHER OUTLOOK.

Rather cold northerly winds; local showers, especially near the East Coast; considerable bright intervals in the West.

Times of issue of Gale Warnings.

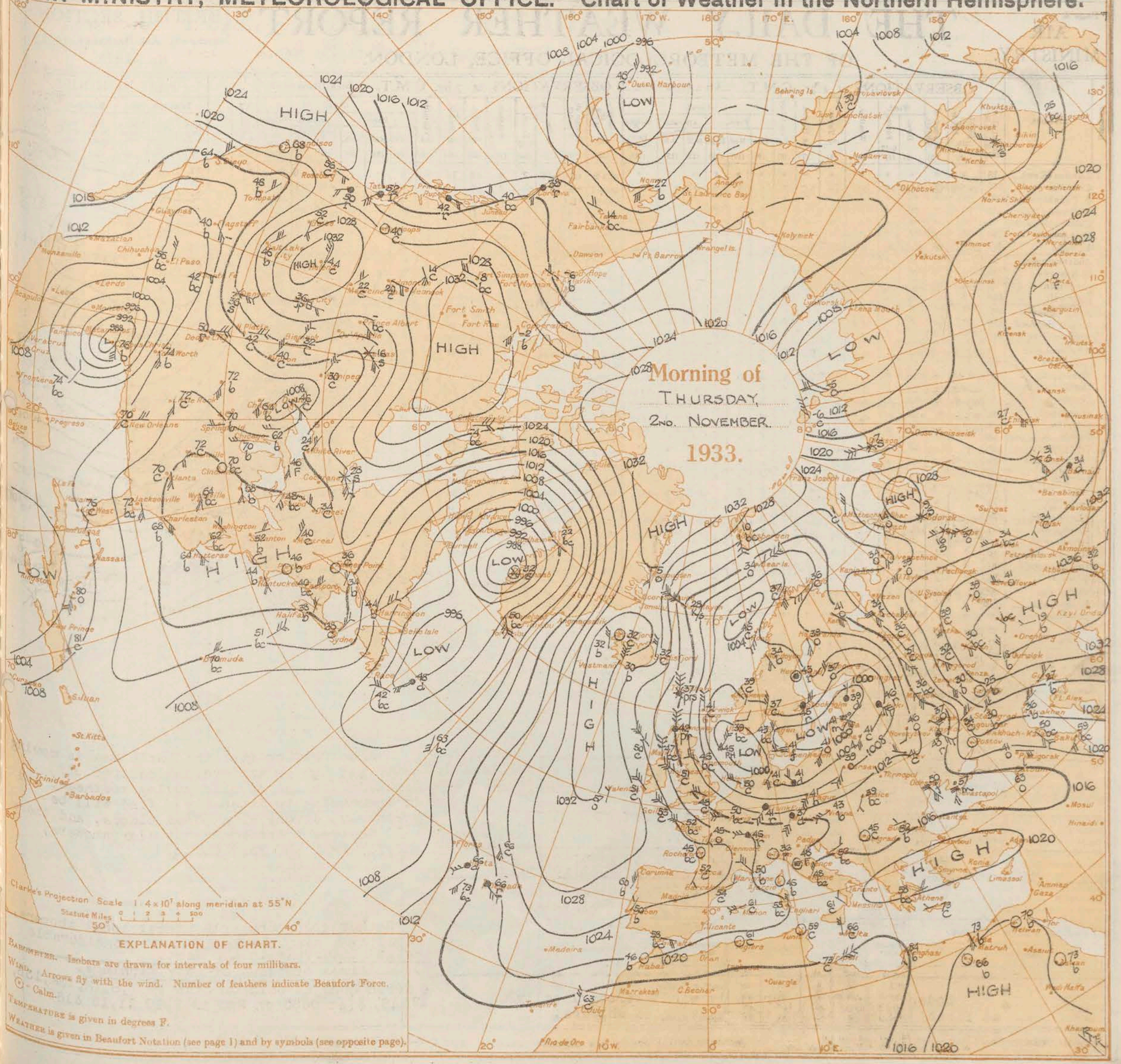
North Cone at 0815 on 31st in 7,8,12,13A,13B, 17&18, & at 0850 on 2nd in 2,10,11,15 &16.

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.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

THURSDAY 2ND NOVEMBER 1933.

No. 26,278

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

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	1013·8	-6	WSW	4	bc	50	85	7	-	7	-	0	4-6	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1013·2	-2	WNW	4	c	50	75	8	5	-	-	9+	9+	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1008·1	-8	WNW	4	r.r.	49	95	6	6	-	-	10	10	1500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1017·8	-6	WNW	5	c	53	85	7	4	-	-	10	10	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1023·0	-2	WNW	5	q	53	85	8	4	4	-	4·6	4·6	4000
	Scilly (St. Mary's)	163	1024·6	-2	NW'W	5	c	53	85	7	7	-	-	9+	9+	4000
	Guernsey	175	1021·0	-8	NW	4	c	55	85	7	8	-	-	7·8	7·8	2500
6	Pembroke	142	1018·6	0	WNW	4	q	55	85	7	4	-	-	4·6	4·6	2500
7	Holyhead	26	1015·0	-4	NW'W	8	q	53	65	7	2	-	-	2·3	2·3	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1006·7	-2	W	5	c	49	95	7	5	3	-	4·6	7·8	4000
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	100	1006·5	+6	W	3	bc	46	75	7	2	6	-	2·3	4·6	2500
11	Inchkeith	190	1007·3	+2	WSW	4	bc	47	85	8	5	-	-	4·6	4·6	2500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts I)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1011·0	+40	N	5	c	43	75	8	8	8	-	4·6	7·8	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1000·1	-12	NW	6	rr	45	95	8	9	1	-	7·8	10	1500
16	Lerwick	54	1002·8	+10	NNW	3	r.r.	39	95	7	9	-	-	10	10	800
17	Blacksod Point	18	1022·6	+4	WNW	4	c	50	95	8	9	-	-	10	10	450
18	Malin Head	52	1015·9	+18	NW	6	q	48	95	6	6	-	-	9+	9+	1500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1026·3	+6	W'N	6	bc	53	95	8	5	-	-	4·6	4·6	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 2nd November

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)	1013·2	+6	W'S	2	c	48	75	8	S	-	1	4-6	7-8	2500	1	*
Croydon	1014·2	+6	W'N	4	c	48	75	8	S	7	1	4-6	7-8	2500	1	*
S. Farnborough	1013·7	+6	W'N	3	c	49	75	8	S	-	8	7-8	9	4000	1	*
Boscombe Down	1015·2	+4	NW	4	c	47	65	8	S	-	8	4-6	9	1500	0	*
Calshot (S'thmtn)	1014·9	-6	W	4	c	52	85	6	7	7	-	4-6	7-8	2500	1	1
Dungeness	*	*	WNW	3	RR	*	*	6	6	-	*	9	9	1500	*	2
Lympne	1012·2	-4	WNW	4	ir.	47	85	8	6	3	-	9	9+	2500	1	*
Shoeburyness	1011·3	0	WNW	3	pr	49	75	7	S	3	1	7-8	7-8	4000	1	*
Felixstowe	1009·1	+2	W'N	S	c	49	75	7	S	3	-	9	9+	2500	1	2
Gorleston	1007·4	+2	WNW	4	c	47	75	6	9	-	-	9+	9+	1500	1	2
Cranwell	1010·3	+8	WNW	4	c	47	75	8	S	-	2	2-3	7-8	2500	1	*
Birmingham	1013·7	+10	WNW	4	ir	45	95	6	6	-	-	9+	9+	800	1	*
Upper Heyford	1013·6	+4	W	3	c/r.	47	75	8	S	7	2	7-8	9+	1500	1	*
Ross-on-Wye	1015·1	0	WNW	4	q	48	65	8	S	1	1	2-3	4-6	4000	1	*
Portland Bill	1016·1	-10	WNW	6	pr	54	95	7	S	-	-	10	10	1500	1	4
Plymouth	1019·5	-4	WNW	5	ir.	53	85	7	6	2	-	9	9+	1500	1	3
The Lizard	1022·4	0	WNW	5	q	53	75	8	8	4	-	7-8	9+	2500	1	3
Scilly (St. Mary's)	1023·8	-2	NWW	5	c	53	85	7	S	7	-	7-8	9+	4000	0	3
Guernsey	1019·6	-8	NW	6	c	55	75	7	8	1	-	7-8	10	1500	0	4
Pembroke	1018·7	0	WNW	4	q	51	65	7	4	9	-	7-8	7-8	2500	0	3
Holyhead	1016·4	+12	NWW	7	q	51	65	8	2	-	8	7-8	10	1500	1	4
Chester (Sealand)	1013·8	+14	WNW	6	bc	48	85	7	S	-	1	4-6	4-6	1500	1	*
L'pool (Bidston)	1013·6	+10	NW	6	pr	46	85	8	3	-	-	4-6	4-6	1500	1	*
Manchester	1012·2	+8	NW	5	c	46	75	7	S	-	2	2-3	7-8	2500	1	*
Harrogate	1010·3	+6	W	4	bc	43	75	9	3	4	2	Tr.	2-3	2500	1	*
Spurn Head	1006·9	0	WNW	6	c	47	95	7	3	7	8	2-3	7-8	2500	0	4
Catterick	1010·5	+22	NW'W	4	b	44	75	8	S	-	1	Tr.	1	4000	1	*
Tynemouth	1008·5	+22	WNW	4	bc	45	65	8	2	-	-	4-6	4-6	2500	1	2
Inchkeith	1011·8	+8	NW	5	bc	44	65	8	4	-	-	2-3	2-3	2500	0	3
Leuchars	1010·6	+22	S WNW	4	b	41	65	9	8	-	-	1	1	2500	1	*
Renfrew (Abbotts I)	1013·6	+32	W	4	b	41	75	8	5	-	-	1	1	4000	1	*
Eskdalemuir	1012·2	+30	WNW	3	bc	39	85	8	4	3	-	4-6	4-6	1500	1	
Tiree	1017·4	+20	N	7 4	bcjp	46	85	7	8	-	3	4-6	4-6	800	1	4
Stornoway	1015·2	+14	N	6	pr	42	85	7	8	7	-	4-6	7-8	1500	1	2
Dalwhinnie	1012·5	+20	WNW	5	s.	37	95	8	4	2	-	4-6	9	800	1	*
Aberdeen	1007·4	+22	NW	5	b	41	85	7	3	-	-	1	1	4000	1	2
Wick	1007·3	+6	NW	5	ir	42	95	8	9	1	-	4-6	7-8	1500	1	3
Lerwick	1003·9	+6	N	4	c/r	41	95	7	8	7	-	4-6	9	1500	1	*
Blacksod Point	1024·7	+10	NW	5	c	49	~~75~~ 65	8	9	-	-	7-8	7-8	800	1	3
Malin Head	1019·2	+18	N'W	6	bc	47	85	7	4	4	-	2-3	4-6	1500	1	4
Aldergrove	1018·1	+24	NW	5	bc	45	65	7	5	-	1	4-6	4-6	1500	1	*
Donaghadee	1016·7	+30	NW	5	pr.	46	75	7	9	3	-	4-6	7-8	1500	1	3
Birr Castle	1022·4	+10	NNW	3	bc	45	85	7	5	-	-	4-6	4-6	2500	1	*
Valentia Obsy.†	1025·9	0	NW'N	5	c/pr.	51	95	8	8	4	-	7-8	7-8	1500	1	3
Roches Point	1022·6	+6	W'S N	4	c	51	85	8	3	-	-	9	9	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 1st Hrs. (36)
London (Kew)	52	48	44	-	3	1·9
Croydon	51	45	43	Tr	2	1·7
S. Farnborough	53	49	43	Tr	Tr	4·0
Boscombe Down	53	47	44	-	0·1	5·6
Calshot (S'thmtn)	54	50	48	-	0·1	4·2
Dungeness	52	46	*	Tr	5	*
Lympne	48	45	43	Tr	0·5	3·6
Shoeburyness	50	46	41	0·3	0·5	3·4
Felixstowe	49	45	43	0·2	3	6·3
Gorleston	49	38	37	-	4	6·7
Cranwell	48	46	43	6	2	1·7
Birmingham	51	45	42	Tr	0·3	1·6
Upper Heyford	50	46	39	Tr	1	*
Ross-on-Wye	54	48	43	-	-	5·6
Portland Bill	55	53	*	-	0·6	*
Plymouth	55	53	50	-	0·1	3·3
The Lizard	54	52	*	0·4	-	*
Scilly (St. Mary's)	56	52	*	0·1	-	6·0
Guernsey	55	53	49	-	-	1·4
Pembroke	56	49	*	-	0·6	5·0
Holyhead	55	49	46	Tr	1	1·7
Chester (Sealand)	54	47	43	0·1	1	0·1
L'pool (Bidston)	52	46	43	0·4	2	0·3
Manchester	53	46	41	3	1	*
Harrogate	50	43	38	1	1	0·9
Spurn Head	48	43	*	3	9	2·1
Catterick	47	44	41	2	-	0·9
Tynemouth	46	44	39	2	0·2	
Inchkeith	49	43	38	1	0·1	0·1
Leuchars	47	39	32	Tr	-	0·0
Renfrew (Abbotts I)	51	41	36	6	Tr	0·0
Eskdalemuir	50	38	35	4	1	0·1
Tiree	53	45	42	19	2	0·0
Stornoway	52	39	*	3	3	1·8
Dalwhinnie	46	36	32	1	1	0·0
Aberdeen	46	39	34	0·4	1	3·4
Wick	45	41	*	1	7	*
Lerwick	46	38	*	1	3	3·1
Blacksod Point	57	48	*	Tr	0·3	*
Malin Head	55	45	*	1	2	0·0
Aldergrove	55	44	40	Tr	0·3	0·1
Donaghadee	54	43	*	0·2	2	*
Birr Castle	54	44	41	0·4	1	0·3
Valentia Obsy.†	55	51	49	Tr	0·4	0·1
Roches Point	56	50	*	Tr	-	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except Greenwich & Hampstead 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	bcc	co	bc(1)crbc	52	48	44	-	3	1·9	*	*	7
Croydon	217	bcc3o	c3oir.	id.crrbc	51	45	43	Tr.	2	1·7	*	*	6
Greenwich (Royal Observatory)	149	bc	cr.	cir.cid	52	49	40	Tr.	0·3	0·6	69	69	5
City (Bunhill Row)	—	*			*	*	*	*	*	1·0	*	*	*
Westminster (St. James' Park)	27	*	*	*	53	48	43	1		1·0	67	71	*
‡Regents Pk. (Botanic Gardens)	168	*	*	*	53	45	43	1		0·9	69	77	*
Camden Square	110	c	c	*	50	48	42	-	0·3	*	*	73	*
Kensington	80	bcc	c	*	52	49	42	-	1	1·0	At 18h. To *	72	*
Hampstead Observatory	450	bc	bcp	or	50	45	37	Tr.	0·4	1·0		83	*

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 1st November Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Th. G.M.T. 2nd November 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	1017·8	W	4	c	50	1016·3	W	5	bc	50	52	48	0·3	0·5
Brussels	1013·1	W	2	c	43	1009·0	WSW	5	c/r	48	52	41	0·3	6
Berlin	1003·3	WSW	3	c	43	1003·0	NW	2	d.d.	41	45	37	0·1	6
Zürich	1017·2	WSW	4	c/r	43						50		6	
Rome	1017·4	S	3	bc	52	1019·5	NNE	3	bc	48	64	*	-	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
0·6	9-16h 1st	Nil	2-4h 2nd

Kew Observatory Max.	Time.	Min.	Time.
0·3	17h. 1st	<0·1	3h. 2nd

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 ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9 h.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 3rd. November 1933.

No. 26,279.

OBSERVATIONS at 13h. G.M.T. 2nd. 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)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1012.7	-4	NW	4	c	51	55	6	2	-	8	2-3	7-8	2500
	Croydon	1012.9	-6	NW'W	5	c	51	55	6	8	-	6	4-6	9	2500
	S. Farnborough	1013.6	-6	WNW	4	c	49	65	8	8	4	8	2-3	9+	1500
	Boscombe Down	1014.9	-2	NW	3	c	50	65	8	5	-	8	4-6	9	2500
	Calshot, S'thmtn	1014.9	-6	WNW	4	c	52	65	7	8	-	8	7-8	9+	2500
	Dungeness	*	*	WNW	3	c	*	*	6	8	-	*	9+	9+	1500
	Lympne	1012.0	-4	WNW	4	c	49	65	7	8	3	-	7-8	9+	4000
2	Shoeburyness	1011.1	-2	WNW	4	c	51	65	7	8	3	6	7-8	9	2500
	Felixstowe	1010.0	0	NW'W	5	c	49	55	8	7	-	1	4-6	7-8	2500
	Gorleston	1007.7	-4	NW	6	bc	48	65	7	8	-	1	4-6	4-6	2500
	Cranwell	1010.7	-8	NW	6	bc	48	55	7	1	-	-	4-6	4-6	2500
3	Birmingham	1013.7	+2	NW	5	bc	47	65	8	9	-	1	4-6	4-6	1500
	Upper Heyford	1013.8	-2	WNW	5	c	49	55	8	7	-	1	7-8	7-8	2500
4	Ross-on-Wye	1015.8	0	NW	4	c	49	65	8	8	6	9	4-6	7-8	4000
5	Portland Bill	1016.7	-4	WNW	5	c	52	85	7	5	7	-	7-8	10	1500
	Plymouth	1019.5	-2	NW	5	pr$_o$	52	65	8	8	-	-	9+	9+	1500
	The Lizard	1021.5	0	NW	4	pr$_o$	51	65	8	8	7	-	7-8	9+	2500
	Scilly (St. Mary's)	1023.3	-2	NW	6	c	52	65	7	2	7	-	2-3	7-8	4000
	Guernsey	1018.8	-4	NNW	5	c	54	65	7	8	1	-	4-6	7-8	1500
6	Pembroke	1019.0	0	NNW	3	c|pr	49	65	7	3	9	6	2-3	9+	2500
7	Holyhead	1017.8	+2	NW'N	7	q	49	65	8	3	-	-	4-6	4-6	2500
	Chester (Sealand)	1014.9	-2	NW'W	7	bc	50	65	8	1	-	1	4-6	4-6	4000
8	L'pool (Bidston)	1015.0	0	NW	6	q	48	65	8	1	-	-	1	1	2500
	Manchester	1013.5	-2	NNW	6	q	49	65	8	1	-	-	4-6	4-6	4000
9	Harrogate	1011.0	+6	W	5	bc	47	55	9	7	-	-	4-6	4-6	4000
10	Spurn Head	1007.1	0	NW	8	q	47	75	8	3	7	-	4-6	7-8	4000
	Catterick	1010.3	-10	NW'W	5	b	47	55	8	1	-	-	1	1	4000
	Tynemouth	1008.7	-16	NNW	4	bc	47	55	8	8	-	-	4-6	4-6	2500
11	Inchkeith	1012.5	+4	NW	6	c	46	65	8	8	-	8	4-6	7-8	2500
	Leuchars	1011.5	+2	NW	5	bc|pr	45	65	9	8	-	3	4-6	4-6	4000
12	Renfrew (Abbotts I.)	1014.7	+6	NW'W	5	bc	47	65	8	7	8	-	2-3	2-3	1500
	Eskdalemuir	1011.7	-10	NNW	6	bc	45	55	7	1	-	-	2-3	2-3	2500
13A	Tiree	1020.0	+14	N	7	c	47	75	7	3	-	3	7-8	7-8	800
13B	Stornoway	1019.1	+24	N	7	bc	45	65	8	8	7	-	4-6	4-6	2500
15	Dalwhinnie	1016.5	+16	NW	5	i$_o$s	38	85	7	4	2	-	7-8	10	800
	Aberdeen	1009.0	+12	NW	5	prs	41	95	6	9	7	-	7-8	7-8	1500
	Wick	1012.2	+36	N	8	c|r	44	95	8	9	1	-	7-8	9+	1500
16	Lerwick	1010.9	+36	NW	6	bc|pr	44	75	8	8	-	-	4-6	4-6	1500
17	Blacksod Point	1026.1	+6	N	5	bc	50	55	8	2	-	-	4-6	4-6	1500
18	Malin Head	1021.5	+8	NW	6	c|ph(r)	48	75	7	3	8	-	4-6	7-8	1500
	Aldergrove	1020.0	+6	NW'N	6	c|p	47	65	8	3	-	3	7-8	7-8	1500
	Donaghadee	1018.4	+4	NW	5	pr$_o$	47	75	7	8	3	-	4-6	7-8	2500
19	Birr Castle	1023.4	+2	NNW	2	bc|pr	48	70	8	8	-	-	2-3	2-3	2500
20	Valentia Obsy.	1026.9	-2	NW	5	bc	54	65	8	8	-	1	4-6	4-6	1500
	Roches Point	1023.4	-6	NW	4	bc	52	65	8	3	-	-	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 2nd. 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)	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)	1012.9	+6	W'N	3	bc	46	55	6	5	-	-	2-3	2-3	4000	1	*
	Croydon	1012.7	0	W'N	3	3$_o$	45	65	6	7	-	-	4-6	4-6	2500	1	*
	S. Farnborough	1013.5	+6	NW'W	3	b	44	75	6	8	-	-	1	1	4000	1	*
	Boscombe Down	1014.6	-2	NW	4	b	43	75	8	5	-	-	Tr	Tr	2500	0	*
	Calshot, S'thmtn	1014.7	0	WNW	4	bc	47	65	7	-	6	-	0	4-6	-	0	2
	Dungeness	*	*	WNW	2	bc	*	*	7	4	8	*	2-3	2-3	2500	*	2
	Lympne	1011.6	+2	WNW	3	3$_o$	43	65	5	1	-	-	1	1	4000	1	*
2	Shoeburyness	1010.8	+2	WNW	4	b	45	65	7	-	7	-	0	Tr	-	0	*
	Felixstowe	1009.9	+2	W'N	3	bc	46	65	8	7	-	-	4-6	4-6	2500	0	1
	Gorleston	1006.9	-4	WNW	4	bc	45	75	7	8	6	-	2-3	4-6	2500	0	3
	Cranwell	1010.5	+2	NW'N	5	pr$_o$	43	75	7	9	-	-	9+	9+	1500	1	*
3	Birmingham	1013.6	+2	WNW	4	bc	44	75	8	5	3	-	1	2-3	1500	1	*
	Upper Heyford	1013.9	+6	NW	6	bc	44	65	8	5	-	-	4-6	4-6	1500	1	*
4	Ross-on-Wye	1015.6	-4	NW'W	4	b	43	75	8	8	-	-	1	1	4000	1	*
5	Portland Bill	1016.0	+4	WNW	4	bc	48	95	7	4	-	-	4-6	4-6	2500	0	4
	Plymouth	1019.2	0	NW	4	bc|p	48	65	7	8	3	-	4-6	4-6	2500	1	3
	The Lizard	1020.7	0	NNW	4	c	48	75	8	8	6	-	4-6	9+	1500	1	3
	Scilly (St. Mary's)	1022.7	0	NNW	6	c	51	65	7	8	-	-	7-8	7-8	2500	0	3
	Guernsey	1017.9	+2	NNW	6	bc	50	65	7	8	-	-	4-6	4-6	2500	1	4
6	Pembroke	1019.1	+2	NNW	4	q	48	65	7	8	7	-	4-6	7-8	2500	0	3
7	Holyhead	1018.0	+6	NW'N	8	q	49	65	8	3	-	-	4-6	4-6	1500	1	4
	Chester (Sealand)	1015.4	+8	NW'N	6	bc	48	65	8	8	-	-	4-6	4-6	2500	1	*
8	L'pool (Bidston)	1014.7	+2	NNW	6	q	47	65	8	5	-	-	4-6	4-6	2500	0	*
	Manchester	1012.9	+6	NNW	6	bc	46	65	8	5	-	-	4-6	4-6	2500	1	*
9	Harrogate	1011.4	0	NW	5	rr	40	85	7	6	-	-	10	10	2500	1	*
10	Spurn Head	(1007.0)	-2	NW'W	7	ir$_o$	44	95	7	6	2	-	7-8	10	1500	1	6
	Catterick	1011.8	+20	NW'N	6	rr	46	85	7	9	-	3	4-6	9+	1500	1	*
	Tynemouth	1009.1	+8	NNW	6	iR	41	95	7	6	-	-	10	10	1500	1	3
11	Inchkeith	1016.6	+32	NW	3	c	43	75	8	4	3	-	4-6	7-8	4000	0	2
	Leuchars	1016.3	+26	NNW	4	bc	43	75	9	8	6	-	1	2-3	2500	1	*
12	Renfrew (Abbotts I.)	1019.0	+28	NW'N	3	b	42	75	9	7	4	-	Tr	Tr	2500	1	*
	Eskdalemuir	1015.0	+22	NW	6	q	40	65	8	2	3	-	2-3	2-3	2500	1	*
13A	Tiree	1022.6	+16	N	7	c|p	45	85	7	3	-	3	7-8	7-8	800	1	5
13B	Stornoway	1022.2	+10	N	7	c|pr	42	85	7	8	6	-	7-8	9	1500	1	3
15	Dalwhinnie	1020.3	+14	N	6	bc	37	75	8	4	4	-	4-6	4-6	1500	1	*
	Aberdeen	1015.3	+36	NW'N	5	bc|phr	42	85	7	9	3	-	4-6	4-6	1500	1	3
	Wick	1017.3	+20	N	5	c	42	95	8	8	1	-	4-6	7-8	1500	1	3
16	Lerwick	1014.6	+20	NNW	5	bc|pr	42	85	8	8	8	-	2-3	4-6	1500	1	*
17	Blacksod Point	1028.0	+6	N	4	pr	47	85	8	8	-	-	7-8	7-8	800	1	3
18	Malin Head	1025.8	+20	NW	6	ph(r)	45	85	7	6	-	-	9	9	1500	1	4
	Aldergrove	1021.9	+14	NNW	5	bc|pr	42	75	8	3	-	3	4-6	4-6	1500	1	*
	Donaghadee	1019.8	+6	NW	6	q	48	65	8	8	3	-	4-6	7-8	2500	0	3
19	Birr Castle	1024.8	+10	N	1	bc	44	85	8	3	-	-	2-3	2-3	2500	1	*
20	Valentia Obsy.	1027.4	+8	NW	5	c	51	65	8	5	-	-	7-8	7-8	2500	1	3
	Roches Point	1024.1	+6	NW	4	bc	50	65	8	3	-	-	4-6	4-6	2500	0	3

PAST 24 HOURS.

Stations.	Weather. 7h.–13h. 2nd. (37)	13h.–18h. 2nd. (38)	18h. 2nd to 1h. 3rd. (39)	1h.–7h. 3rd. (40)
London (Kew)	bcc$_o$cy	bc$_3$$_o$	c$_3$d$_o$	b
Croydon	bcc$_o$3$_o$	cybc$_3$$_o$	bc$_3$$_oc_om_o$	prc
S. Farnborough	c$_o$cpr$_o$	cbccpr$_o$b	b-cr$_o$	cbc
Boscombe Down	c	cbcb	bbc	bcb
Calshot, S'thmtn	bcc	cbc	bccb	bcb
Dungeness	bc	bc	*	bc
Lympne	cpr$_o$	cm$_o$bcb	bm$_o$cr	cpr$_o$bc
Shoeburyness	cpr$_o$q	cq$_o$bcb	b	bw
Felixstowe	ccpr$_o$bcy	bcy	bccr$_o$	cp$_o$bc
Gorleston	cbcq	bcq	bccr$_o$q	cpr$_o$q
Cranwell	bc	bcyc	cbc	bcpr$_o$b
Birmingham	cpr$_o$bc	bc	cpr$_o$	cb
Upper Heyford	cr$_o$br	pr$_o$bq	bccrc	cb
Ross-on-Wye	c$_i$p$_o$	bccbbc	bbcp$_o$cq	cb
Portland Bill	cpr$_o$c	cbc	bcc	cbc
Plymouth	cir$_o$rpr$_o$q	cpr$_o$qbc	bbcpr$_o$	bcb
The Lizard	cqpr$_o$	cqpr$_o$	bc	bcprc
Scilly (St. Mary's)	cpq	c	p$_o$qbc	bc
Guernsey	PRbc	cbc	cbc	c
Pembroke	cqpr$_o$c	cbccq	bcqpr$_o$	cqprc
Holyhead	cqpr$_o$	bcqpr$_o$	bcq	bc
Chester (Sealand)	bc	pr$_o$bc	bc	bcw
L'pool (Bidston)	bcq	bcp$_o$q	qbcqb	b
Manchester	bbc	bqbc	bcbx	bcbxm$_o$
Harrogate	bbc	bbccqr	cbcP	pcb
Spurn Head	cq	qir$_o$	pr	qpr
Catterick	bbybc	bycrr	orrc	cr$_o$bc
Tynemouth	bcq	bcoiRq	oPHRcr	ocirq
Inchkeith	bcc	cir$_o$	cbcc	bcpr
Leuchars	cbcpr$_o$q	cpr$_o$prb	bqbvx	cpr$_o$pr$_o$
Renfrew (Abbotts I.)	bbc	bbcv	bvb	bbcv
Eskdalemuir	bcby	ir$_o$q	bqb	b-cpr$_o$q
Tiree	bc	bcPRq	bcPR	bc
Stornoway	cpr$_o$qbc	bcphrc	cpr	cpr$_o$
Dalwhinnie	i$_s$o	iro	*	ir
Aberdeen	bccprs	prsrrphr	bc	bcir
Wick	rrqir	cirqc	bcccr	circ
Lerwick	cPRbc	bcpr	bcpr	bcpr
Blacksod Point	bcq	PRc	prcq	bcq
Malin Head	bccpr	cphr	cprbc	bc
Aldergrove	bcpr	bcpshpr	bccpr$_o$	~~cb~~ c-b
Donaghadee	cqpr$_o$	cpr$_o$c	bcq	bcq
Birr Castle	bcpr$_o$	prbc	bcb	bx
Valentia Obsy.	cpr$_o$cbc	bcyc	cp$_o$c	cbc
Roches Point	cbc	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.
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. ⟋ gale.

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.

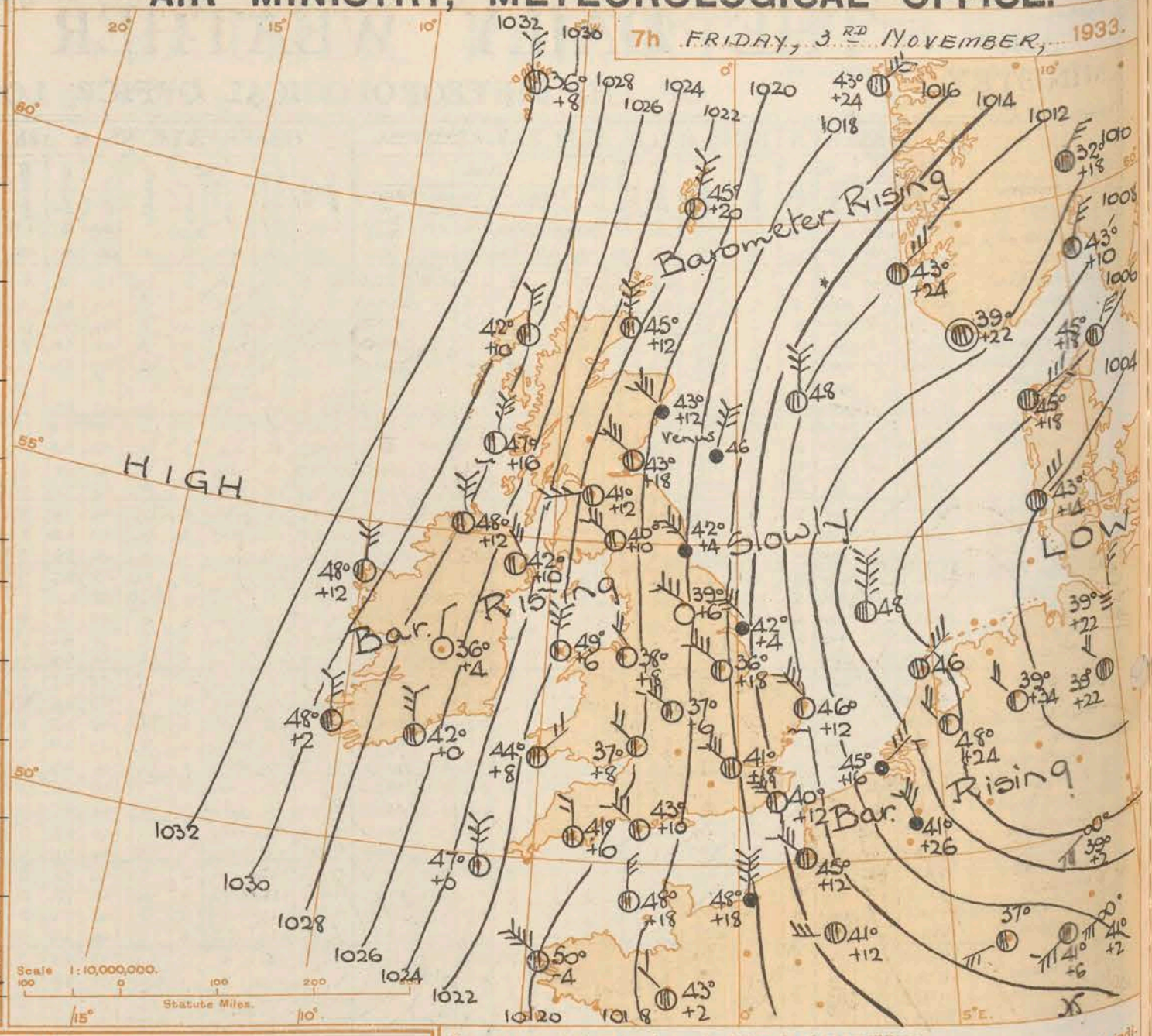
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for Thursday 2nd November 1933.

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.	cpc	bccbc	45	50	1	Trace	1·5
	Bournemouth	c	cc	48	52	Trace	-	1·5
	Ventnor ...	pcw	cpbc	49	52	0·3	0·3	0·7
	Southsea ...	c	cbc	48	53	1	-	0·9
	Bognor Regis	bcbc	cbc	46	52	1	-	1·4
	Littlehampton	bc	bc	46	53	Trace	-	1·5
	Worthing ...	bccbc	cpcb	46	52	Trace	Trace	2·4
	Brighton ...	bc	cpc	47	53	1	Trace	2·7
	Eastbourne†	c	cb	50	53	Trace	-	1·5
	Hastings† ...	cbcc	cbcb	48	52	2	-	2·4
	Folkestone ...	bccp	cbcb	47	52	1	Trace	1·1
	Dover... ...	cp	cbc	47	52	1	Trace	0·7
	Deal	c	c	45	51	0·3	-	1·8
	Ramsgate ...	c	cbc	45	52	1	-	2·2
	Margate ...	c	bcc	46	50	1	-	3·0
2	Southend ...	c	cbcb	46	51	1	-	2·3
	Maldon ...	bcb	b	45	51	1	-	5·3
	Clacton-on-Sea	cbc	bcc	43	51	3	-	4·2
	Dovercourt ...	pbcc	bc	45	50	3	-	4·9
	Lowestoft ...	cbc	cbc	42	49	6	-	3·1
	Skegness ...	b	bc	43	49	4	-	6·6
	Mablethorpe	bcbc	bcc	43	49	6	-	4·3
	Cleethorpes ...	b	bc	43	50	6	-	6·8
3	Leamington S.	cbc	bc	46	51	-	-	4·3
4	Cheltenham†	cpc	cbc	46	50	Trace	1	3·1
5	Bath	cbc	cpbc	50	53	1	0·3	1·8
	Weymouth ...	c	c	49	54	1	-	1·9
	Jersey ...	pcbc	cbc	53	57	1	-	0·6
	Torquay ...	pbc	bcpbc	50	54	1	Trace	2·1
	Penzance ...	c	cbcp	51	53	0·5	Trace	0·7
	St. Ives ...	cpcc	c	50	53	0·3	Trace	0·1
	Bude	cbcc	cpr	52	52	Trace	Trace	0·7
	Ilfracombe ...	bcc	bcpbc	52	53	0·5	0·1	2·8
6	Aberystwyth	pcbc	bcpc	47	53	0·5	0·3	4·2
7	Llandudno ...	cbc	cbc	47	51	2	0·6	3·7
	Colwyn Bay...	cbcpb	bcpbc	47	51	2	0·5	3·2
	Rhyl	bc	bc	49	50	2	-	5·3
8	Wallasey ...	bc	bc	47	50	3	-	6·4
	Southport‖ ...	cbc	bccbc	47	51	2	-	6·2
	Blackpool ...	cbc	bcc	48	49	4	-	7·1
	Morecambe ...	cbbcb	b	44	49	1	-	8·1
9	Ilkley... ...	b	b	41	50	4	-	7·9
10	Berwick-on-T.	bbcc	RRc	42	46	2	7	2·7
11	Dunbar ...	crr	crr	41	47	3	2	3·0
12	Troon... ...	pbcb	b	44	49	0·3	-	7·6
	Douglas ...	cbpbc	bcp	44	49	3	1	5·4

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :— Clear sky. Sky less than 1/10 clouded. Sky 1/10 to 5/10 clouded. Sky 5/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. T Thunder. K Thunderstorm. Slight haze.
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 Nov., 1933.

Districts.	Forecasts
1. S.E. England	Moderate or fresh northerly wind; bright intervals, local showers; rather cold, ground frost at night.
2. E. England...	Moderate or fresh northerly wind, stronger locally at first on coast; showers, frequent and heavy locally near coast, but bright intervals; rather cold, ground frost locally at night.
3. E. Midlands	
4. W. Midlands	
5. S.W. England	
6. South Wales	As 1.
7. North Wales	
8. N.W. England	
9. N Midlands	
10. N.E. England	As 2.
11. S.E. Scotland	
12. S.W. Scotland & Isle of Man	As 1.
13. A. W Scotld. B. N.W. Scotland.	
14. Mid-Scotland	
15. N.E. Scotland	Fresh or strong northerly wind, moderate; showers, frequent and heavy locally at first; some bright intervals; rather cold.
16. Orkneys and Shetlands.	
17. N.W. Ireland	
18. N.E. Ireland	As 1.
19. S.E. Ireland	
20. S.W. Ireland	

GENERAL INFERENCE.

An elongated anticyclone off our west and northwest coasts is moving slowly southeast. The northerly winds will moderate slowly, and there will be bright intervals but local showers, chiefly near the East Coast.

FURTHER OUTLOOK.

Mainly fair, but some further showers near East Coast; rather cold, ground frost at night at most places.

Time of issue of Gale Warning.

North Cone at 0850 on 2nd in districts 2 and 10.

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

Forecasts issued at 1010 G.M.T.

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 3rd. November 1933.

No. 26 279

OBSERVATIONS at 1 hr. G.M.T. 3rd. November

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	1013·5	+8	NW	4	c	43	85	7	5	-	-	9+	9+	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1011·6	+4	NW'N	4	c/r	40	95	7	6	1	-	2-3	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1008·6	+12	N	6	pr	46	85	7	9	-	-	7-8	7-8	1500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1016·3	+4	NNW	4	c	48	85	7	5	-	-	7-8	7-8	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1021·4	0	N'W	4	bc	45	75	8	4	-	-	2-3	2-3	4000
	Scilly (St. Mary's)	163	1023·4	+4	N	6	bc	47	65	8	2	-	-	4-6	4-6	4000
	Guernsey	175	1017·6	-6	NNW	6	c	49	65	8	8	-	-	7-8	7-8	2500
6	Pembroke	142	1020·0	+2	NNW	4	bc/pr	46	85	7	5	7	-	2-3	4-6	2500
7	Holyhead	26	1020·9	+10	N	5	bc	48	65	8	4	-	-	4-6	4-6	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1011·9	+8	N	7	q	46	85	7	3	7	-	4-6	7-8	2500
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	100	1016·4	+20	N	6	vr	40	95	7	6	-	-	10	10	1500
11	Inchkeith	190	1020·0	+10	NW	2	b	41	75	9	-	4	-	0	1	-
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts'D)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1026·0	+12	N	5	c/pr	42	85	8	8	6	-	4-6	7-8	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1019·2	+6	N	5	vr	45	95	8	8	1	-	4-6	7-8	1500
16	Lerwick	54	1017·2	+14	N'E	6	bc	45	85	7	8	8	-	2-3	4-6	1500
17	Blacksod Point	18	1029·8	+20	N	5	q	47	75	8	9	-	-	7-8	7-8	800
18	Malin Head	52	1025·6	+6	N	6	bc	48	75	7	3	-	-	2-3	2-3	1500
	Aldergrove	228	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1028·9	+10	NW	5	c	47	95	8	2	-	-	7-8	7-8	4000
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 3rd. November

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 2nd Hrs. (36)
London (Kew)	1017·3	+22	NNW	3	bc	41	75	7	7	3	-	1	2-3	2500	1	*	52	40	36	-	0·1	3·4 3·9
Croydon	1016·5	+18	NW	4	c	41	85	7	5	7	-	4-6	7-8	1500	1	*	51	41	39	Tr	0·2	1·8
S. Farnborough	1017·8	+14	NNW	3	b	39	85	7	5	4	-	Tr.	Tr.	1500	1	*	51	39	35	0.1	1	2·5
Boscombe Down	1018·7	+16	NNW	4	b	38	75	8	5	-	-	Tr.	Tr.	5700	0	*	50	37	34	-	-	2·7
Calshot, (S'thmtn)	1017·8	+18	NW'N	5	b	42	75	8	-	4	-	0	1	-	0	1	53	41	37	-	-	0·6
Dungeness	*	*	NW	3	bc	*	*	7	8	8	*	2-3	4-6	1500	*	2	52	37	*	1	1	*
Lympne	1014·2	+12	NNW	5	bc	40	85	7	9	-	1	2-3	4-6	800	1	*	49	39	35	Tr	1	1·1
Shoeburyness	1014·7	+20	NNW	5	c	41	85	7	5	-	-	9	9	2500	1	*	51	40	37	Tr	-	4·7
Felixstowe	1013·7	+18	NW	4	bc	42	85	8	8	3	4	2-3	4-6	2500	1	1	50	41	38	Tr	1	4·5
Gorleston	1011·8	+12	NNW	5	bc/pr	46	75	6	9	-	-	4-6	4-6	1500	1	4	49	42	39	—	4	3·4
Cranwell	1017·3	+18	NW	4	bc	36	95	7	5	-	-	2-3	2-3	5700	1	*	50	36	34	0.1	0·5	7·4
Birmingham	1019·2	+6	NW	4	b	37	75	6	-	-	-	0	0	-	1	*	49	36	32	0.3	0·2	4·1
Upper Heyford	1018·8	+12	NW	4	b	35	85	7	-	-	-	0	0	-	1	*	52	35	30	Tr	1	*
Ross-on-Wye	1020·0	+8	N'W	2	b	37	75	8	5	-	-	Tr.	Tr.	4000	1	*	50	37	25	0.1	Tr.	3·5
Portland Bill	1019·7	+10	NNW	4	bc	43	85	7	4	-	-	4-6	4-6	2500	0	3	56	40	*	Tr	-	*
Plymouth	1020·9	+10	N	2	b	41	85	8	8	3	-	1	1	2500	1	1	54	41	36	1	0·2	2·3
The Lizard	1022·1	+2	N'W	3	pr	42	95	8	9	-	-	7-8	7-8	1500	1	2	54	41	*	0.1	5	*
Scilly (St. Mary's)	1023·1	0	N	6	bc	47	65	8	2	-	-	4-6	4-6	4000	0	3	53	46	*	1	-	1·4
Guernsey	1018·5	+18	N	3	c	48	75	8	8	-	-	10	10	2500	0	3	55	48	44	1	-	0·9
Pembroke	1021·4	+8	NE	2	c/pr	44	95	7	8	2	-	4-6	9	1500	1	2	55	43	*	0.2	2	1·6
Holyhead	1021·8	+6	N'E	6	c	49	65	9	2	-	-	7-8	7-8	2500	1	3	51	47	45	0.1	-	3·3
Chester (Sealand)	1021·0	+8	NW'W	2	bc	38	85	6	8	-	-	4-6	4-6	4000	1	*	50	38	29	Tr	-	5·7
L'pool (Bidston)	1020·7	+2	N	4	b	43	75	8	1	4	-	Tr.	Tr.	4000	0	*	48	42	39	Tr	-	6·4
Manchester	1020·2	+6	WSW	2	3c	35	85	6	5	4	9	1	2-3	4000	1	*	49	34	28	—	-	*
Harrogate	1018·3	+6	NNW	4	b	39	75	8	3	-	-	1	1	2500	1	*	48	37	32	0.1	7	7·3
Spurn Head	1014·0	+4	NW	6	pr	42	95	7	6	7	-	4-6	7-8	2500	1	4	48	42	*	0.1	3	7·1
Catterick	1018·4	+10	NW'N	4	c	41	75	8	5	-	-	9	9	1500	1	*	47	39	35	1	15	8·8
Tynemouth	1017·2	0	N	5	rr	42	85	7	6	-	-	7-8	7-8	1500	1	3	47	39	35	4	20	*
Inchkeith	1021·3	+12	NW	3	c	43	85	8	8	-	-	7-8	7-8	2500	1	2	47	41	33	Tr	1	5·2
Leuchars	1021·2	+8	NW	4	bc/pr	43	75	9	8	8	-	4-6	4-6	2500	1	*	47	34	26	1	1	4·4
Renfrew (Abbotts'D)	1023·6	+12	WNW	4	bc	41	85	9	8	-	-	4-6	4-6	2500	1	*	48	33	27	—	-	8·0
Eskdalemuir	1020·7	+10	N'W	4	bc/pr	40	75	8	4	-	-	2-3	2-3	2500	1		45	34	28	0.4	0·2	7·3
Tiree	1027·2	+16	N'E	6	c	47	85	8	8	7	-	9	9	800	1	4	48	41	40	0.5	1	5·6
Stornoway	1028·4	+10	N	4	c	42	85	8	8	6	-	4-6	7-8	1500	1	2	45	38	*	3	2	3·1
Dalwhinnie	1024·6	+8	NNW	4	c	39	95	8	4	-	-	7-8	7-8	800	1	*	(38)	35	32	4	2	0·0
Aberdeen	1019·8	+12	NW'N	4	ir	43	85	7	9	7	-	4-6	4-6	1500	1	2	43	38	35	13	2	0·6
Wick	1022·4	+12	N	6	c	45	95	8	8	1	8	4-6	7-8	1500	1	3	44	39	*	9	4	*
Lerwick	1020·6	+20	N'E	6	bc/pr	45	85	7	8	-	-	4-6	4-6	1500	1	*	44	41	*	6	2	3·1
Blacksod Point	1030·5	+4	N	5	bc	48	75	8	4	-	-	4-6	4-6	1500	1	3	51	44	*	0·5	0·3	*
Malin Head	1027·1	+12	N	5	bc	48	75	7	3	-	-	2-3	2-3	1500	0	3	49	43	*	1	0·6	3·8
Aldergrove	1025·4	+10	NNW	3	b	42	85	8	2	4	-	Tr.	1	1500	1	*	48	39	30	1	0·2	3·6
Donaghadee	1023·6	+12	NW	7	q	48	75	8	5	3	-	4-6	4-6	1500	0	4	50	46	*	0.6	-	*
Birr Castle	1027·3	+4	N	1	b	35	95	8	-	4	-	0	1	-	1	*	51	33	22	0.2	-	3·2
Valentia Obsy.†	1029·6	+2	N	4	bc	48	65	8	8	-	-	4-6	4-6	2500	1	2	54	43	39	Tr	0·1	5·3
Roches Point	1026·9	0	N	4	bc	42	85	8	3	-	-	2-3	2-3	2500	0	3	53	41	*	—	-	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich & Hampstead 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	bcerscy	bc3o	c3odb	52	40	36	-	0·1	3·4	*	*	7
Croydon	217	bcer3o	cybc3o	bc3ocspr	51	41	39	Tr.	0·2	1·8	*	*	5
Greenwich (Royal Observatory)	149	dc	cby	bcb	52	39	32	Tr.	-	1·1	54	74	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	2·6	*	*	*
Westminster (St. James' Park)	27	*	*	*	53	41	35	-		2·7	55	89	*
‡Regents Pk. (Botanic Gardens)	168	*	*	*	53	39	35	-		2·8	52	73	*
Camden Square	110	c	cb	*	52	39	35	-	-	*	*	73	*
Kensington	80	bcebc	bc	*	52	39	33	-	Tr.	1·5	At 18h. 66	72	*
Hampstead Observatory	450	bc	bcp	b	51	36	30	Tr.	Tr.	3·9	*	76	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
0·3	15-20 2nd.	Nil.	0-5h. 3rd.

Kew Observatory Max.	Time.	Min.	Time.
0·5	15h. 2nd.	0·1	5h. 3rd.

FOREIGN OBSERVATIONS.

18h. G.M.T. 3rd. November

Stations	Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.
Paris	1013·4	WNW	3	c	48
Brussels	1008·3	WSW	4	b	43
Berlin	1000·4	S	3	rr	41
Zurich	1016·0	WSW	5	c	48
Rome	*	S	3	bc	55

7h. G.M.T. 3rd. November

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	1013·0	W	3	c	41	54	39	3·1	1
Brussels	1009·1	NNW	4	rr	41	52	37	3	3
Berlin	1003·0	SW	4	c	41	45	39	3	0·2
Zurich	1011·9	WSW	5	rr	41	48	39	2	7
Rome	1017·8	SW	2	c	59	70	46	-	0·5

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.

† 1h. observations are from Valentia W/T station ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 4th November 1933.

No. 26,280.

OBSERVATIONS at 13h. G.M.T. 3rd. 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)	1017.0	-8	NNW	4	c	47	65	6	1	-	4	<6	7-8	2500
	Croydon	1017.1	-4	NW'N	3	z0	47	65	6	4	-	2	4-6	4-6	2500
	S. Farnborough	1017.6	-6	WNW	2	bc	48	65	7	7	4	4	2-3	2-3	2500
	Boscombe Down	1018.7	-10	NNW	4	bc	46	65	8	2	-	-	4-6	4-6	2500
	Calshot, S'thmtn	1018.4	~~+8~~ -*6	NW'N	4	bc	48	65	7	1	-	-	2-3	2-3	2500
	Dungeness	*		NW'N	3	c	*	*	7	4	7	*	2-3	7-8	2500
	Lympne	1015.4	-4	NNW	4	c	45	75	7	1	-	6	1	9+	2500
2	Shoeburyness	1015.6	0	NW'N	4	c	48	65	7	5	7	6	2-3	7-8	4000
	Felixstowe	1015.3	+2	NW	4	c	47	75	8	5	-	-	9	9	1500
	Gorleston	1014.3	+10	NW'N	4	bc/pr	47	85	6	9	-	-	4-6	4-6	1500
	Cranwell	1017.3	-2	NW'N	5	c/pr	45	85	8	8	-	-	7-8	7-8	2500
3	Birmingham	1019.3	0	NNW	4	bc	46	65	5	1	-	-	4-6	4-6	1500
	Upper Heyford	1018.5	-2	N'W	4	z0	47	65	6	2	7	9	4-6	7-8	4000
4	Ross-on-Wye	1020.0	0	N	4	bc	48	55	8	7	-	1	4-6	4-6	4000
5	Portland Bill	1019.4	-6	N	4	bc	48	75	7	4	-	-	2-3	2-3	2500
	Plymouth	1020.8	-10	N'W	4	bc	49	55	8	1	3	-	2-3	2-3	4000
	The Lizard	1021.9	-6	N	3	bc	50	55	8	4	6	-	2-3	4-6	4000
	Scilly (St. Mary's)	1024.0	+2	NE	3	PR	45	95	7	9	6	-	9	9+	1500
	Guernsey	1019.6	-2	NNE	3	c	48	75	8	8	-	-	9+	9+	2500
6	Pembroke	1022.5	0	NNE	3	bc/pr	48	75	7	8	7	-	2-3	4-6	1500
7	Holyhead	1022.8	+2	N'E	6	c	50	65	8	4	-	-	7-8	7-8	1500
	Chester (Sealand)	1021.4	-2	NNW	4	c	49	65	6	7	5	1	4-6	7-8	1500
8	L'pool (Bidston)	1021.8	0	N	4	bc	47	65	8	7	6	-	4-6	4-6	4000
	Manchester	1020.3	-2	N'E	5	z0	48	65	6	9	4	1	4-6	7-8	2500
9	Harrogate	1018.5	0	NNW	4	b	45	75	7	3	-	-	1	1	2500
10	Spurn Head	1015.0	+2	NW'N	6	c/r	45	95	7	3	7	-	4-6	9	1500
	Catterick	1019.0	-4	NW'N	5	pr	46	85	7	9	6	-	7-8	7-8	1500
	Tynemouth	1019.2	+10	N	6	PH(R)	46	95	-	9	-	-	4-6	4-6	1500
11	Inchkeith	1023.5	+2	N	4	c	47	75	8	8	6	-	7-8	7-8	4000
	Leuchars	1023.3	+10	NNW	3	c	47	75	8	8	-	-	7-8	7-8	2500
12	Renfrew (Abbotts I.)	1025.1	+2	NNW	3	c	48	65	9	4	-	-	7-8	7-8	4000
	Eskdalemuir	1021.7	-2	N	5	bc/ps	44	75	8	4	-	-	4-6	4-6	1500
13A	Tiree	1029.2	+2	NE	5	cjp	47	85	8	9	7	-	7-8	9	1500
13B	Stornoway	1030.2	+4	N	4	c	44	75	8	5	7	-	7-8	10	1500
15	Dalwhinnie	1026.8	+10	N	4	c	41	~~85~~ 95	8	4	2	-	4-6	7-8	1500
	Aberdeen	1022.8	+14	NNW	5	bc/ph(r)	45	75	7	9	-	3	4-6	4-6	1500
	Wick	1025.2	+16	N	6	ir0	47	95	8	8	6	1	7-8	7-8	1500
16	Lerwick	1024.2	+10	N	5	cjp	46	85	7	8	8	-	4-6	7-8	1500
17	Blacksod Point	1031.6	+4	N	5	c	49	75	9	9	-	-	7-8	7-8	800
18	Malin Head	1028.3	0	N	5	bc	49	85	7	4	8	-	2-3	4-6	1500
	Aldergrove	1026.8	-2	N'W	5	bc	48	65	8	2	-	-	4-6	4-6	1500
	Donaghadee	1025.7	+4	N'W	4	q	51	65	8	8	3	-	4-6	4-6	2500
19	Birr Castle	1028.1	0	N	3	bc	49	65	8	7	-	-	4-6	4-6	2500
20	Valentia Obsy.	1030.1	-4	NNE	4	bc	51	65	9	2	-	-	2-3	2-3	2500
	Roches Point	1027.1	-4	N	4	bc	48	65	8	3	-	-	2-3	2-3	2500

OBSERVATIONS at 18h. G.M.T. 3rd. 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)	1017.6	+6	NNW	2	ir0	46	75	6	5	-	-	10	10	1500	1	*
	Croydon	1017.2	+4	N'W	3	r0r0	45	85	5	5	-	-	10	10	2500	1	*
	S. Farnborough	1017.4	+4	NW'W	3	z0	46	75	6	5	-	-	9+	9+	2500	1	*
	Boscombe Down	1018.7	+2	NNW	3	c	43	85	7	5	-	-	7-8	7-8	2500	0	*
	Calshot, S'thmtn	1018.1	0	NW	4	c	47	75	6	8	6	-	4-6	9	2500	0	1
	Dungeness	*	*	NW	2	c	*	*	6	8	-	*	9	9	1500	*	1
	Lympne	1016.3	+6	NNW	4	z0	43	85	6	5	-	-	9+	9+	2500	1	*
2	Shoeburyness	1016.7	+10	NNW	2	c	43	85	7	5	-	-	9	9	2500	0	*
	Felixstowe	1015.7	+6	NW	3	b	42	95	7	5	-	-	1	1	2500	0	1
	Gorleston	1015.0	+16	NNE	4	bc	43	85	7	4	-	-	4-6	4-6	2500	1	2
	Cranwell	1018.2	+8	NNW	3	c	42	95	7	8	-	-	7-8	7-8	2500	1	*
3	Birmingham	1019.6	+2	NNW	4	pr0	44	75	6	6	7	-	7-8	10	1500	1	*
	Upper Heyford	1018.8	+8	NNW	3	pr	43	95	6	5	-	-	9+	9+	1500	1	*
4	Ross-on-Wye	1019.9	0	N	3	c	45	75	7	5	-	-	7-8	7-8	4000	1	*
5	Portland Bill	1018.8	-6	N	3	c	48	75	7	5	-	-	9	9	2500	0	2
	Plymouth	1020.9	+4	N	3	z0	47	65	6	8	-	-	4-6	4-6	4000	1	0
	The Lizard	1021.9	0	N	3	bc	43	75	8	9	6	-	4-6	4-6	1500	1	2
	Scilly (St. Mary's)	1022.3	-2	N'E	5	bc/pr	47	75	8	9	-	-	4-6	4-6	1500	1	4
	Guernsey	1019.1	0	NNE	3	bc	48	65	8	8	-	-	~~9~~ 4-6	~~9~~ 4-6	2500	0	3
6	Pembroke	1023.3	0	NNE	2	c	47	75	7	8	2	-	4-6	7-8	1500	0	2
7	Holyhead	1023.3	+10	N'E	7	q	50	65	8	4	-	-	4-6	4-6	2500	1	4
	Chester (Sealand)	1022.6	+10	NNW	4	c	45	75	6	5	3	-	4-6	7-8	2500	0	*
8	L'pool (Bidston)	1022.8	+6	NNE	4	bc	45	75	8	5	-	-	4-6	4-6	4000	0	*
	Manchester	1021.2	+12	NNW	4	b	43	85	6	5	-	-	1	1	2500	1	*
9	Harrogate	1020.2	+10	N	2	c	43	85	7	6	-	-	9+	9+	2500	1	*
10	Spurn Head	1017.3	+8	N'E	6	pr0	48	75	7	3	2	-	4-6	7-8	1500	0	5
	Catterick	1020.8	+14	NNW	2	pr	43	95	7	9	-	-	10	10	1500	1	*
	Tynemouth	1020.3	+20	NNE	6	c/pr	48	85	8	6	-	-	7-8	7-8	1500	1	4
11	Inchkeith	1025.0	+10	N	3	c	4~~7~~5	75	8	8	-	-	9	9	4000	0	2
	Leuchars	1024.4	+10	N	3	bc	44	75	8	7	-	1	2-3	2-3	2500	1	*
12	Renfrew (Abbotts I.)	1026.1	+10	NW'N	3	c	45	75	9	5	-	1	9+	9+	4000	1	*
	Eskdalemuir	1023.3	+10	N'E	4	prs0	43	75	8	9	-	-	9	9	1500	1	*
13A	Tiree	1029.4	+2	N'E	6	cjp	45	85	8	8	-	-	7-8	7-8	1500	0	4
13B	Stornoway	1030.4	+2	N	3	pr0	40	85	7	8	7	-	4-6	7-8	1500	1	1
15	Dalwhinnie	1027.8	+16	N	3	c	40	85	8	4	2	-	4-6	10	2500	0	
	Aberdeen	1024.3	+10	NNW	4	bc/pr	44	85	7	3	5	3	2-3	4-6	2500	1	2
	Wick	1026.1	+6	N	6	c/r	45	95	8	8	1	-	4-6	9	1500	1	3
16	Lerwick	1025.4	+8	N	4	c	44	85	7	8	9	-	4-6	7-8	1500	0	*
17	Blacksod Point	1031.2	-2	NNE	4	c	48	75	8	8	-	-	9	9	800	1	3
18	Malin Head	1028.8	0	N'E	4	c	48	85	7	4	-	-	9	9	1500	0	1
	Aldergrove	1027.4	+6	N'W	4	b	43	85	8	2	-	5	Tr	Tr	2500	1	*
	Donaghadee	1026.4	+4	NNE	3	bc	49	65	8	5	3	-	4-6	4-6	1500	0	2
19	Birr Castle	1028.2	+4	N	1	bc	43	75	8	-	4	-	0	2-3	-	1	*
20	Valentia Obsy.	1029.7	-2	NE'E	3	c	47	75	8	6	-	-	9	9	1500	1	2
	Roches Point	1026.6	+4	N	3	bc	48	65	8	3	-	-	2-3	2-3	2500	0	3

PAST 24 HOURS. WEATHER.

District	Stations	7h.—13h. 3rd. (37)	13h.—18h. 3rd. (38)	18h. 3rd. to 1h. 4th. (39)	1h.—7h. 4th. (40)
1	London (Kew)	bbcz0	cz0	or0bcm0	bcm0
	Croydon	cbm0bc	cz0r0	cbccr0d0	cd0,b,cm0
	S. Farnborough	bz0bc	bccbccm0	cbw	b,cbwc
	Boscombe Down	bbc	bcc	cbc	bccm0
	Calshot, S'thmtn	b	bbccm0	cm0bcc	cr0cm0
	Dungeness	bc	bc		p
	Lympne	bcc	ccm0	bm0cr	cirb
2	Shoeburyness	cbc	bcc	cbcbw	wm0
	Felixstowe	bcc	cpr0cbcb	bw	b bc
	Gorleston	cqpr0	cirbc	bccpr0q	cbcq
	Cranwell	bbccpr0	cprir	cpr b	b,cpr
3	Birmingham	bbc	cpr0	cpr bc	bc
	Upper Heyford	bbcz0	bccpr	cpr bc	bc bm0
4	Ross-on-Wye	bbc	bccbc	cb bcb	bbcb
5	Portland Bill	bc	bc	cbcb	bz0
	Plymouth	bbcy	bybcz0	bcz0b,c	cb,c
	The Lizard	prbcy	bcpr	bc	bcw
	Scilly (St. Mary's)	bccp	cpq	pqbc	cbc
	Guernsey	cp0bc	cbc	bccir	cpr
6	Pembroke	cqprbcq	cqbcc	bc	bcpr c
7	Holyhead	bccpr0	bcq	p0c	bcc
	Chester (Sealand)	bcc	cbc	vcc	cbc
8	L'pool (Bidston)	bbcvbc	bc	bccpr	bccbc
	Manchester	bczmc	bcbm0	bm0cr0	cbcmx
9	Harrogate	bbcp	bbccp	bcp	bcp
10	Spurn Head	rrc	cpr0	cpr	cpr
	Catterick	bccpr	bccpr	bccprc	bccpr
	Tynemouth	cPRHq	bccpq	cpcq	cpq
11	Inchkeith	cpr	cpr	c	c
	Leuchars	cpr0bcc	cpr0bc	bccpr0bc	bbcc
12	Renfrew (Abbotts I.)	bccv	bccv	cvbc	bcc
	Eskdalemuir	bcprs0	prs0	prs c	c
13A	Tiree	cir0	bc	bc	c
13B	Stornoway	cr0	cpr0	cpr0,bc,c	c
15	Dalwhinnie	c	c	c	c
	Aberdeen	bcphr	bcpr	bcr0c	c
	Wick	cir0	cir0	c	cir0
16	Lerwick	bccpr	cpr0	c	cbcc
17	Blacksod Point	prcq	c	c	prc
18	Malin Head	bc	bcc	c	c
	Aldergrove	bcb	bcb	b	b,c
	Donaghadee	bcq	bc	bcq	cir0c
19	Birr Castle	bbc	bc	bcb	bbccx
20	Valentia Obsy.	bc	bccpr0c	cp0c	cp0c
	Roches Point	bc	bc	bcb	bbcc

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_0, slight rain. rr, continuous rain.

<, less than (for cloud height).

⊕, Solar halo. ♈ lunar halo. gale

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.

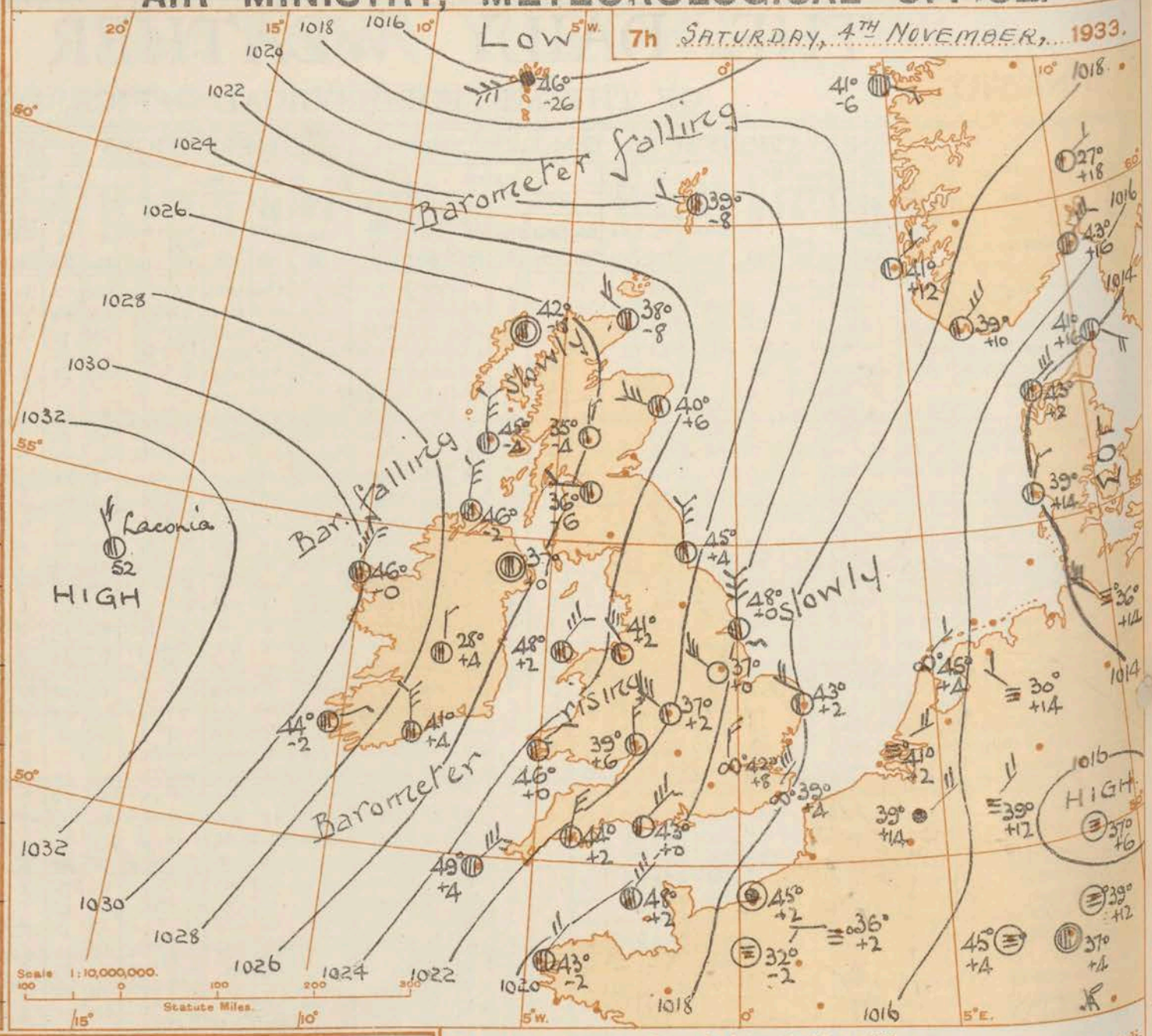
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for Friday 3rd November 1933.

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.	b	bbc	39	47	-	-	4·5
	Bournemouth	b	b	40	50	-	-	7·0
	Ventnor ...	b	bc	40	50	-	-	7·2
	Southsea ...	b	bbm	40	49	-	-	6·9
	Bognor Regis	b	bbcc	40	49	-	-	6·8
	Littlehampton	bbc	bc	40	50	-	-	6·4
	Worthing ...	b	bbcc	41	49	-	-	6·2
	Brighton ...	bc	c	42	50	-	-	6·8
	Eastbourne†	bbc	bcc	41	49	-	-	5·7
	Hastings† ...	bbc	bcc	37	49	0·2	-	5·6
	Folkestone ...	rcbc	bc	41	48	2	-	4·9
	Dover... ...	bcc	cbc	42	48	2	-	5·1
	Deal	cbc	co	41	47	1	-	4·3
	Ramsgate ...	bc	bcc	41	48	2	-	5·1
	Margate ...	bc	bc	42	47	1	-	4·8
2	Southend ...	bbc	bcco	40	50	0·1	-	3·3
	Maldon ...	cb	cdoc	40	47	-	Trace	2·8
	Clacton-on-Sea	cpcbc	bcc	40	47	0·2	-	3·1
	Dovercourt ...	dbc	bc	40	48	Trace	-	3·9
	Lowestoft ...	bcep	bcep	41	48	4	3	3·1
	Skegness ...	orbc	rbc	38	47	4	1	4·3
	Mablethorpe	cbcr	coRc	39	48	5	4	2·1
	Cleethorpes ...	bcm	ciR	40	48	1	3	1·6
3	Leamington S.	bcc	bcco	37	48	1	-	4·9
4	Cheltenham†	bmbc	bccm	35	46	0·3	-	6·0
5	Bath	b	bbcc	41	49	Trace	-	6·8
	Weymouth ...	b	b	40	51	-	-	8·1
	Jersey ...	rcbc	cbc	48	52	0·6	-	1·8
	Torquay ...	pbbc	bcz	40	51	0·3	-	8·4
	Penzance ...	cbepb	bercb	44	54	1	2	5·2
	St. Ives ...	cp	cp	45	51	2	1	2·8
	Bude	bc	bc	43	51	-	-	8·2
	Ilfracombe ...	b	bbc	46	51	1	-	6·2
6	Aberystwyth	cbc	bcprs	36	50	-	0·5	6·8
7	Llandudno ...	bc	c	45	50	-	-	2·5
	Colwyn Bay...	bcc	bccbc	44	49	-	-	1·5
	Rhyl	bbc	bccbc	45	50	-	-	5·2
8	Wallasey ...	bbc	bc	43	49	-	-	3·1
	Southport‖ ...	bccoc	cbcb	40	49	-	-	3·5
	Blackpool ...	cbc	bcc	42	50	-	-	5·4
	Morecambe ...	cbc	cbbcc	38	48	-	-	4·3
9	Ilkley... ...	bcpr	prbc	36	47	4	1	4·8
10	Berwick-on-T.	cPR	THbc	41	49	3	3	0·6
11	Dunbar ...	cp	crr	40	49	Trace	1	0·2
12	Troon... ...	bccbc	bcc	40	50	-	-	4·6
	Douglas ...	bcq	bcq	41	50	-	-	7·2

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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. 4th Nov. 1933.

Districts.	Forecast
1. S.E. England 2. E. England...	Light or moderate northerly wind, backing northwest or west; fair or fine today, except for local showers at first near coast; cloudy with probably occasional slight rain tomorrow; rather cold, ground frost at night.
3. E. Midlands 4. W. Midlands	Light or moderate northerly wind backing northwest or west; fine today; cloudy with probably occasional slight rain tomorrow; rather cold, ground frost at night.
5. S.W. England 6. South Wales	Light or moderate northeast or north wind, backing northwest; fair; cloud increasing later; rather cold, ground frost locally inland.
7. North Wales 8. N.W. England	Wind backing northwest or west, moderate or fresh; cloud increasing, occasional rain later; becoming milder.
9. N Midlands 10. N.E England	Moderate or fresh westerly wind; cloudy, occasional rain evening or night; milder.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Moderate to strong westerly wind, veering slightly later; cloudy, occasional rain, especially at first; milder.
13. A. W Scotld. B. N.W. Scotland. 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Moderate northwest wind; cloudy, slight rain locally; becoming milder.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	

GENERAL INFERENCE.

Pressure is high off West Ireland and low in the far North. A secondary trough near the Faeroes is moving southeast. Weather will be fair at first in most districts but there will be rain in Northern Scotland, spreading southwards but probably becoming slight.

FURTHER OUTLOOK.

Mainly cloudy and rather mild; slight rain locally.

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

Forecasts issued at 1010 G.M.T.

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 4th. November 1933.

No. 26.280.

OBSERVATIONS at 1 hr. G.M.T. 4th. November

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	1018·8	+6	W'S	2	id.	41	95	5	5	2	-	7-8	10	2500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1017.1	-2	N'W	4	c/r	41	95	6	5	7	-	4.6	9	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1017·3	+6	N'E	4	c	47	85	7	4	-	-	9+	9+	2500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1020·0	+4	N	3	b	44	85	7	-	-	-	0	0	-
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1021·6	-2	N'W	2	bc	43	75	8	4	-	-	2-3 ~~4.6~~	2-3 ~~4.6~~	4000
	Scilly (St. Mary's)	163	1022.1	+6	NE	5	c	48	75	8	8	-	-	7.8	7.8	2500
	Guernsey ...	175	1019.0	0	NNE	2	c	48	75	7	8	-	-	10	10	1500
6	Pembroke ...	142	1024.3	+4	NNE	1	bc	46	95	7	5	-	-	4.6	4.6	4000
7	Holyhead ...	26	1024·2	+2	NNE	6	bc	49	75	8	4	-	-	4.6	4.6	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1018·9	+2	NNE	5	c/pr	46	95	7	3	3	-	2.3	7.8	4000
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	100	1022.2	+6	N	4	bc	50	75	7	9	-	-	4.6	4.6	1500
11	Inchkeith ...	190	1025·8	-2	NNW	2	c	43	75	8	5	3	-	4.6	9+	4000
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts I.)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1029·3	-14	-	0	c	37	85	7	8	6	-	4.6	9	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1026·3	-12	NW	3	c	40	95	8	8	1	8	4.6	7.8	1500
16	Lerwick ...	54	1024.5	-8	NNW	3	c	41	85	8	5	7	-	4.6	9+	1500
17	Blacksod Point	18	1030·4	-4	NNE	1	c	45	85	8	8	-	-	9	9	800
18	Malin Head ...	52	1028·5	-10	N	3	c	47	85	7	8	-	-	9+	9+	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1028·8	-10	N	6	c	47	95	8	9	-	-	10	10	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 4th. November

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) ...	1020.1	+6	N'W	3	bc	42	85	6	5	-	1	2·3	4·6	2500	1	*
Croydon ...	1019·3	+8	N	2	3o	42	95	6	5	7	-	4·6	7·8	2500	1	*
S. Farnborough	1020.0	+4	NW'N	2	c	40	95	6	5	-	-	9+	9+	2500	1	*
Boscombe Down	1020.7	+8	N	3	bc	39	95	6	5	-	-	2-3	2-3	1500	0	*
Calshot, (S'thmtn)	1019.9	+4	NNW	5	c	43	85	6	5	-	-	7-8	7-8	4000	1	1
Dungeness ...	*	*	NNE	2	bc	*	*	6	8	8	*	2·3	4·6	1500	*	1
Lympne ...	1017.7	+4	NNE	3	3o	39	95	6	8	-	3	2·3	2·3	4000	*	*
Shoeburyness	1018.4	+6	NW'N	2	b	39	95	6	5	-	-	1	1	4000	1	*
Felixstowe ...	1018·3	+4	NW'N	3	bc	41	95	8	8	•	-	4·6	4·6	2500	0	1
Gorleston ...	1017.6	+2	NW'N	2	bc	43	85	6	8	?	-	4·6	4·6	2500	0	2
Cranwell ...	1020.8	0	NW	3	b/pr	37	95	6	8	-	-	1	1	2500	1	*
Birmingham ...	1022·2	+2	NW	3	bc	37	95	5	-	3	-	0	2·3	-	1	*
Upper Heyford	1021·5	+8	NNW	3	3o	36	95	5	5	-	-	2·3	2·3	800	1	*
Ross-on-Wye ...	1021·9	+6	N	2	b	39	95	7	5	-	1	Tr.	1	4000	1	*
Portland Bill....	1020.0	0	NNE	4	bc	43	95	6	4	-	-	4·6	4·6	2500	0	2
Plymouth ...	1021·5	+2	N	3	c	44	85	8	5	-	-	9+	9+	7200	1	1
The Lizard ...	1022.0	+2	N'E	2	bc	41	85	8	8	6	-	4·6	4·6	2500	1	2
Scilly (St. Mary's)	1022.8	+4	NE	5	c	49	65	8	8	-	-	7·8	7·8	2500	1	3
Guernsey ...	1019.1	+2	NNE	3	c	48	75	7	8	-	-	7·8	7·8	2500	1	3
Pembroke ...	1023.4	0	NE	1	c	46	85	7	4	1	-	4·6	7·8	2500	0	1
Holyhead ...	1024·3	+2	NNE	4	c	48	75	8	4	5	-	4·6	7·8	2500	1	3
Chester (Sealand)	1024.0	+4	N'W	3	c	41	85	7	5	-	6	4·6	7·8	4000	0	*
L'pool (Bidston)	1024·5	+2	N	3	bc	42	85	8	5	6	-	2·3	4·6	4000	0	*
Manchester	1023·2	+2	N'W	3	m	37	95	4	5	4	1	4·6	7·8	2500	1	*
Harrogate ...	1022·3	0	N	2	bc	41	85	7	6	4	5	4·6	4·6	2500	1	*
Spurn Head ...	1018.7	0	N	6	c/pr	48	85	7	3	2	-	4·6	9	4000	1	4
Catterick ...	1023.4	+4	NW	3	c/pr	42	85	7	9	4	3	4·6	9	2500	1	*
Tynemouth ...	1022·3	+4	N	4	c/pr	45	85	7	6	-	-	9	9	1500	1	3
Inchkeith ...	1025.5	0	NNW	2	c	42	65	8	5	3	-	2·3	10	4000	0	1
Leuchars ...	1024.6	0	NW	3	c	41	75	8	5	7	-	2·3	9+	4000	1	*
Renfrew (Abbotts I.)	1025.4	-6	W	1	c	36	95	8	5	-	-	10	10	4000	1	*
Eskdalemuir ...	1024.7	+4	N'W	3	c	39	75	8	5	7	-	4·6	9+	2500	1	*
Tiree	1027·3	-4	N	4	c	45	85	9	5	-	-	9+	9+	1500	0	3
Stornoway ...	1026.4	-18	-	0	c	42	85	7	4	2	-	2·3	10	2500	1	0
Dalwhinnie ...	1027.1	-4	N	1	bc	35	95	8	4	4	-	4·6	4·6	2500	0	*
Aberdeen ...	1024.9	+6	WNW	4	c	40	85	7	5	3	-	2·3	9	2500	1	1
Wick	1024.9	-8	NW	2	c/r	38	95	8	8	1	8	7·8	9	1500	1	2
Lerwick ...	1022·3	-8	WNW	1	c	39	95	8	5	4	-	7·8	9	1500	0	*
Blacksod Point	1030.0	0	NNE	5	c	46	95	8	9	-	-	10	10	800	1	3
Malin Head ...	1027.7	-2	N	4	c	46	85	8	5	-	-	9+	9+	1500	0	1
Aldergrove ...	1027.4	0	-	0	c	37	95	7	5	2	-	9	9+	1500	1	*
Donaghadee ...	1025.6	-2	NNE	3	c	47	65	8	5	-	-	9	9	1500	1	2
Birr Castle ...	1027.8	+4	N	1	c	28	95	7	5	7	-	9+	9+	2500	1	*
Valentia Obsy.†	1028.4	-2	E'N	1	c	44	75	8	5	-	-	9	9	2500	1	2
Roches Point...	1026.9	+4	N	4	c	41	95	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 3rd. Hrs. (36)
London (Kew) ...	48	41	34	Tr.	Tr.	5.8
Croydon ...	48	40	35	0.1	1	5.1
S. Farnborough	49	38	31	–	Tr.	5.9
Boscombe Down	47	36	34	–	–	7.0
Calshot, (S'thmtn)	49	41	38	–	0.1	6.7
Dungeness ...	49	35	*	–	0.6	*
Lympne ...	47	37	34	–	2	4.4
Shoeburyness	49	37	30	–	–	3.8
Felixstowe ...	47	37	34	Tr.	–	3.3
Gorleston ...	50	42	39	2	0.1	3.8
Cranwell ...	47	36	34	1	0.2	4.8
Birmingham ...	46	37	33	0.2	0.3	4.6
Upper Heyford	47	36	31	0.5	0.3	*
Ross-on-Wye ...	48	38	31	–	–	6.8
Portland Bill....	49	42	*	–	–	*
Plymouth ...	50	43	39	–	–	8.5
The Lizard ...	51	41	*	3	–	*
Scilly (St. Mary's)	50	{44}	*	3	3	3.5
Guernsey ...	50	44	41	0.1	~~0.2~~	2.9
Pembroke ...	51	44	*	0.1	0.4	6.1
Holyhead ...	51	48	45	Tr.	Tr.	2.4
Chester (Sealand)	49	39	33	–	–	3.6
L'pool (Bidston)	47	41	39	–	Tr.	4.6
Manchester	49	35	28	–	0.2	*
Harrogate ...	45	40	35	3	0.4	2.4
Spurn Head ...	49	43	*	2	2	3.1
Catterick ...	46	41	38	6	2	2.0
Tynemouth ...	49	43	38	6	6	*
Inchkeith ...	47	42	34	0.4	–	0.3
Leuchars ...	48	37	32	0.1	Tr.	2.3
Renfrew (Abbotts I.)	50	35	32	–	–	4.1
Eskdalemuir ...	46	37	33	0.6	0.2	6.0
Tiree	47	44	40	Tr.	–	1.3
Stornoway ...	45	35	*	0.2	Tr.	0.7
Dalwhinnie ...	41	34	33	–	–	0.3
Aberdeen ...	48	39	38	3	0.4	4.2
Wick	47	37	*	1	0.1	*
Lerwick ...	47	38	*	Tr.	–	3.3
Blacksod Point	50	44	*	0.1	Tr.	*
Malin Head ...	49	45	*	–	–	3.0
Aldergrove ...	49	35	28	–	–	6.3
Donaghadee ...	51	44	*	–	1	*
Birr Castle ...	50	27	18	–	–	6.6
Valentia Obsy.†	52	42	37	Tr.	0.2	2.7
Roches Point...	51	40	*	–	–	*

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather 24 hrs. ended 9h. Morning.	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. %	9h. G.M.T. % To-day.	Visibility 9h.
Kew	18	bbc3o	c3o	or.bcm	48	41	34	Tr.	Tr.	5.8	*	*	6
Croydon	217	cbm bc	c3.r.	r.c.d.b.cm	48	40	35	0.1	1	5·1	*	*	4
Greenwich (Royal Observatory) ...	149	b	bc.d.r.	c.bc.r.bm	48	41	32	0·3	Tr.	4.7	66	84	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	4.9	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	50	42	37	0·5		5·3	65	77	*
‡Regents Pk. (Botanic Gardens) ...	168	*	*	*	49	40	33	Tr.		5.7	69	83	*
Camden Square	110	b	bccp	*	49	41	33	0·3	-	*	*	80	*
Kensington	80	bbc	comr.	*	49	41	33	0·2	Tr.	5.6	At 18h. 84	80	*
Hampstead Observatory	450	bc	cor	bc	47	38	30	0.1	Tr.	6·0	*	90	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 4th.

South Kensington. Max.	Time.	Min.	Time.
Defective record.			

Kew Observatory. Max.	Time.	Min.	Time.
0·3	20h 37'	0.1	1h. 4'

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 3rd. November. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 4th. November. 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	1015.9	NW	2	bc	43	1016.6	W	1	m	36	48	34	0·3	0·2
Brussels	1013.4	WNW	2	c	41	1016.7	NE	2	df	39	50	36	2	0·1
Berlin	1007.6	W'S	3	c	41	1011.7	W	3	3o	39	45	39	-	-
Zürich	1014.6	SSW	3	c	39	1015·2	WNW	1	o	36	48	34	4	3
Rome	1014.1	SSE	2	o	57?						64		-	

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 ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 5th. November 1933.

No. 26,281

OBSERVATIONS at 13h. G.M.T. 4th. 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)...	1020.2	-2	N	3	bc/r	46	75	6	5	3	-	2-3	4-6	2500
	Croydon ...	1019.8	-2	N	3	zo	47	75	5	7	-	-	9	9	2500
	S. Farnborough	1019.9	-10	NWW	2	zo	49	75	6	8	-	-	4-6	4-6	2500
	Boscombe Down	1020.9	-8	N	5	c	47	75	6	8	-	-	7-8	7-8	2500
	Calshot, S'thmtn	1020.3	-6	N'W	5	bc	50	65	8	2	4	-	2-3	2-3	2500
	Dungeness ...	*		N	3	bc	*	*	7	2	-	*	4-6	4-6	2500
	Lympne ...	1018.4	-2	N	3	c	48	75	7	8	-	-	7-8	7-8	1500
2	Shoeburyness	1018.8	-2	NNW	3	c	49	75	7	8	-	-	7-8	7-8	4000
	Felixstowe ...	1018.5	-2	N'W	4	c	50	65	8	8	-	-	7-8	7-8	2600
	Gorleston ...	1018.2	+6	NNE	4	bc	51	75	7	8	-	-	4-6	4-6	2500
	Cranwell ...	1021.5	-2	N	3	pr	46	95	6	9	-	-	9	9	800
3	Birmingham ...	1022.3	-4	NNW	3	m	46	75	4	1	-	1	2-3	2-3	1500
	Upper Heyford	1021.3	-8	N	5	zo	48	75	6	7	-	-	4-6	4-6	2500
4	Ross-on-Wye ...	1022.2	-4	NNE	3	bc	47	65	7	1	6	1	4-6	4-6	4000
5	Portland Bill...	1020.3	-8	N	3	c	50	75	8	5	-	-	7-8	7-8	2500
	Plymouth ...	1021.9	-6	NNE	4	bc	51	65	8	2	-	4	4-6	4-6	4000
	The Lizard ...	1022.5	0	N	2	bc	51	65	8	2	4	-	2-3	4-6	4000
	Scilly (St. Mary's)	1023.2	-8	ENE	4	q	51	75	8	8	7	5	4-6	7-8	2500
	Guernsey ...	1019.6	-2	NE	3	c	49	65	7	8	-	-	9+	9+	2500
6	Pembroke ...	1023.1	-4	NE	3	bc	51	75	8	7	4	2	2-3	4-6	4000
7	Holyhead ...	1024.4	-6	N'E	3	c	51	65	8	4	8	-	4-6	7-8	4000
	Chester (Sealand)	1024.6	-4	NWN	2	zo	48	65	6	5	-	1	9	9	4000
8	L'pool (Bidston)	1024.3	-2	NE'N	3	bc	46	65	8	7	4	1	2-3	2-3	4000
	Manchester	1023.5	-6	NNE	3	zo	48	65	6	8	-	-	7-8	7-8	2500
9	Harrogate ...	1023.0	+6	NNE	3	c	45	75	7	3	7	-	7-8	9+	2500
10	Spurn Head ...	1020.1	+2	NNE	5	c	50	75	8	5	3	8	2-3	7-8	4000
	Catterick ...	1023.6	0	NNW	3	pr	45	85	7	9	-	3	9+	9+	1500
	Tynemouth ...	1022.8	0	N	5	c/pr	45	85	7	6	-	-	9	9	1500
11	Inchkeith ...	1025.5	-4	W	1	c	43	75	7	5	3	-	4-6	10	2500
	Leuchars ...	1024.2	-6	W	3	c	45	65	8	4	3	8	Tr	9	4000
12	Renfrew (Abbotts'l)	1025.0	-6	W	1	c	46	65	8	5	3	-	2-3	9+	5700
	Eskdalemuir ...	1024.6	-8	NW	2	c	42	65	8	-	7	-	0	9+	-
13A	Tiree ...	1026.0	-10	NNW	2	c	47	85	9	5	-	-	9+	9+	2500
13B	Stornoway ...	1023.0	-18	SSW	3	c	48	75	8	5	2	-	7-8	10	1500
15	Dalwhinnie ...	1024.5	-8	N	1	c	40	75	8	4	2	-	4-6	10	2500
	Aberdeen ...	1023.5	-8	NNW	3	c	44	85	7	5	7	-	4-6	9	4000
	Wick ...	1022.7	-8	WSW	3	c	44	95	8	5	6	-	7-8	9+	1500
16	Lerwick ...	1018.4	-20	NNW	3	c	46	85	8	5	-	-	10	10	1500
17	Blacksod Point	1029.0	-4	NNE	2	c	48	75	9	5	-	-	10	10	2500
18	Malin Head ...	1026.8	-8	N'W	3	cjp	46	95	7	8	-	-	9+	9+	1500
	Aldergrove ...	1026.6	-8	NW	2	c	45	75	8	5	3	-	9+	9+	2500
	Donaghadee ...	1025.5	-2	NNE	3	c	47	75	8	5	-	-	9	9	1500
19	Birr Castle ...	1028.0	-4	N	1	c	45	85	8	5	-	-	9+	9+	2500
20	Valentia Obsy.	1028.3	-8	NE'E	3	c	48	75	8	5	-	1	9	9	4000
	Roches Point...	1026.8	-4	N	4	c	46	75	8	5	-	-	7-8	7-8	2500

OBSERVATIONS at 18h. G.M.T. 4th. November

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)	1020.5	+2	N'W	3	bc	44	85	5	-	3	-	0	2-3	-	1	*
Croydon	1019.9	+6	NE	3	iro	45	85	4	6	7	-	7-8	9+	1500	1	*
S. Farnborough	1020.5	+4	-	0	zo	41	95	6	5	-	-	1	1	2500	1	*
Boscombe Down	1021.0	+2	N'E	3	b	39	95	6	8	-	-	Tr	Tr	4000	0	*
Calshot, S'thmtn	1020.4	+10	N'W	3	c/pr	45	85	7	3	3	-	4-6	7-8	2500	1	2
Dungeness	*	*		2	bc	*	*	6	5	-	*	4-6	4-6	2500	*	1
Lympne	1018.5	+4	N	3	pro	43	95	6	9	-	-	9	9	1500	1	*
Shoeburyness	1019.1	+4	NNW	2	b	39	95	7	5	-	-	Tr	Tr	4000	1	*
Felixstowe	1019.0	+6	N'W	3	bc	42	95	7	8	-	-	2-3	2-3	2500	0	1
Gorleston	1019.0	+8	NNE	4	bc	47	75	7	4	-	-	2-3	2-3	4000	0	2
Cranwell	1021.8	+8	NWN	3	bc/pr	42	95	6	8	-	-	2-3	2-3	1500	1	
Birmingham	1022.4	+2	NNW	2	m	42	85	4	-	-	-	0	0	-	1	*
Upper Heyford	1021.9	+8	NNE	2	zo	42	88	6	-	4	8	0	7-8	-	1	*
Ross-on-Wye	1022.4	+4	N	1	zo	42	85	5	-	-	-	0	0	-	1	
Portland Bill	1020.7	+10	NNE	3	bc	46	75	7	4	-	-	2-3	2-3	2500	0	2
Plymouth	1021.8	+8	NNE	3	zo	47	65	6	2	-	-	Tr	Tr	4000	1	1
The Lizard	1022.8	+4	NNW	2	bc	43	85	8	4	-	-	2-3	2-3	4000	1	1
Scilly (St. Mary's)	1023.1	+2	NNE	4	bc	48	65	8	2	-	-	4-6	4-6	4000	1	3
Guernsey	1019.5	+2	NE	5	bc	50	65	7	8	-	-	4-6	4-6	2500	0	4
Pembroke	1022.8	0	NNE	1	bc	45	85	7	7	4	-	2-3	2-3	2500	0	1
Holyhead	1023.8	0	N'W	4	c/pr	49	65	8	2	-	-	9	9	2500	1	2
Chester (Sealand)	1024.2	+4	NWW	3	zo	42	85	6	5	3	1	2-3	2-3	4000	0	*
L'pool (Bidston)	1024.5	0	NNW	2	bc	44	85	9	5	5	9	2-3	4-6	4000	0	*
Manchester	1023.4	+6	NW	2	zo	41	85	85	5	-	-	4-6	4-6	2500	1	*
Harrogate	1023.3	0	NW	1	c/r	43	85	7	6	-	-	9+	9+	2500	1	*
Spurn Head	1020.5	+2	N	4	c/pr	44	95	7	3	2	-	4-6	7-8	4000	1	3
Catterick	1023.4	+2	NWN	2	c	44	85	7	7	6	-	7-8	9+	2500	1	*
Tynemouth	1023.3	+4	W	2	c	44	85	6	4	-	-	7-8	7-8	4000	1	2
Inchkeith	1023.6	-10	SW	3	zo	42	85	6	5	3	-	4-6	7-8	1500	0	2
Leuchars	1022.6	-10	SW	2	c	38	85	7	5	9	8	2-3	9	4000	1	*
Renfrew (Abbotts'l)	1023.5	-8	WSW	3	c	39	85	7	5	3	2	2-3	9+	5700	1	*
Eskdalemuir	1023.9	-4	-	0	bc	34	85	8	-	7	-	0	4-6	-	1	*
Tiree	1023.7	-10	W	4	roro	48	95	8	6	-	-	10	10	1500	1	1
Stornoway	1019.8	-12	SW	2	pr	49	95	6	8	2	-	4-6	10	1500	1	1o
Dalwhinnie	1023.5	-12	N	1	c	37	85	8	4	1	-	4-6	7-8	2500	0	
Aberdeen	1021.9	-12 ~~-16~~	SW	2	c	41	85	6	8	3	-	2-3	7-8	4000	1	1
Wick	1019.1	-16	SW	3	ido	45	95	8	9	2	-	7-8	9+	1500	1	2
Lerwick	1013.4	-30	WSW	6	roro	48	95	6	6	-	-	10	10	800	1	*
Blacksod Point	1027.8	-4	-	0	c	48	75	8	5	-	-	10	10	800	0	0
Malin Head	1024.9	-8	W'N	2	cjp	48	85	9	8	-	-	9+	9+	1500	0	0
Aldergrove	1025.7	-2	NWW	1	c	44	95	8	5	-	-	10	10	1500	1	*
Donaghadee	1024.3	-4	N'E	3	c	47	85	8	5	-	-	9	9	1500	0	2
Birr Castle	1027.0	-4	-	0	c	44	95	8	5	-	-	9+	9+	2500	1	*
Valentia Obsy.	1028.0	+2	NE'N	2	c	47	75	8	5	-	-	10	10	4000	1	1
Roches Point	1026.1	+4	N	3	c	46	75	8	5	-	-	7-8	7-8	2500	0	3

PAST 24 HOURS. — WEATHER.

Stations	7h.–13h. 4th. (37)	13h.–18h. 4th. (38)	18h. 4th to 1h. 5th. (39)	1h.–7h. 5th. (40)
London (Kew)	bccro	czobcmo	bcmo b	bmoxow
Croydon	cbbcmo	czoprbcz	crobmcm	cmomcm
S. Farnborough	cmbczo	czoroRrcbf	bmox	Fe Fe
Boscombe Down	bzccmo	cbcbmo	bmo	bmo bcm
Calshot, S'thmtn	bmob	bqbcpro	bcb*	bcbom
Dungeness	bc	bc		oc
Lympne	bmoc	bcpro	bcmo	bcmocrrr
Shoeburyness	bmobc	cbcb	bwbx	bxmo
Felixstowe	bcbvbc	bc	bcb	bbcc
Gorleston	bcpro	bc PRhoC	bc	bcc
Cranwell	bmocpr	~~cprbcc~~	cprobc	bcm f
Birmingham	bbcm	bcbm	bm	bbcx
Upper Heyford	bccbc	bcpr	cpro	cm
Ross-on-Wye	bccbc	bcbz	bmcmbm	bxcm
Portland Bill	bcc	cbczo	b	bbcczo
Plymouth	czobbc	bcbzo	bzo	b,c
The Lizard	bc	bc	bc	bcc
Scilly (St. Mary's)	cphrq	cbc	bc	poido
Guernsey	cprc	cbcc	bcc	bccbc
Pembroke	bccbc	bc	bcc	cbcc
Holyhead	c	c	c	cidomo
Chester (Sealand)	bcczo	zoc	bcmo	bccdmo
L'pool (Bidston)	bc	bccvbc	bcc	coido
Manchester	bcmczo	cbcmo	bcmx	bcxoffc
Harrogate	bccp	ciro	cbc	c
Spurn Head	cprh	cpr	cpr	czo
Catterick	cpr	cproc	cbc	bcc
Tynemouth	cpqo	cpc	c	c
Inchkeith	c	czo	czozo	oiroc
Leuchars	c	c	cirocmo	cmow
Renfrew (Abbotts'l)	c	c	ccro	ccromo
Eskdalemuir	c	coc	bccx	cxc
Tiree	cir	crr	rrdodmo	c
Stornoway	c	cp	crorо,c	c
Dalwhinnie	c	bc	*	ir
Aberdeen	c	cczo	ciroc	czo
Wick	cproc	cido	cidoc	c
Lerwick	c	cororomo	orоromoc	c
Blacksod Point	c	c	rr	D
Malin Head	cpro	cjp	cddmo	cddmo
Aldergrove	croc	croc	coro	offdoid
Donaghadee	c	cproc	cproc	c
Birr Castle	c	c	c	cororo
Valentia Obsy.	cbcc	c	c	crorodd
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/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. gale.
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.

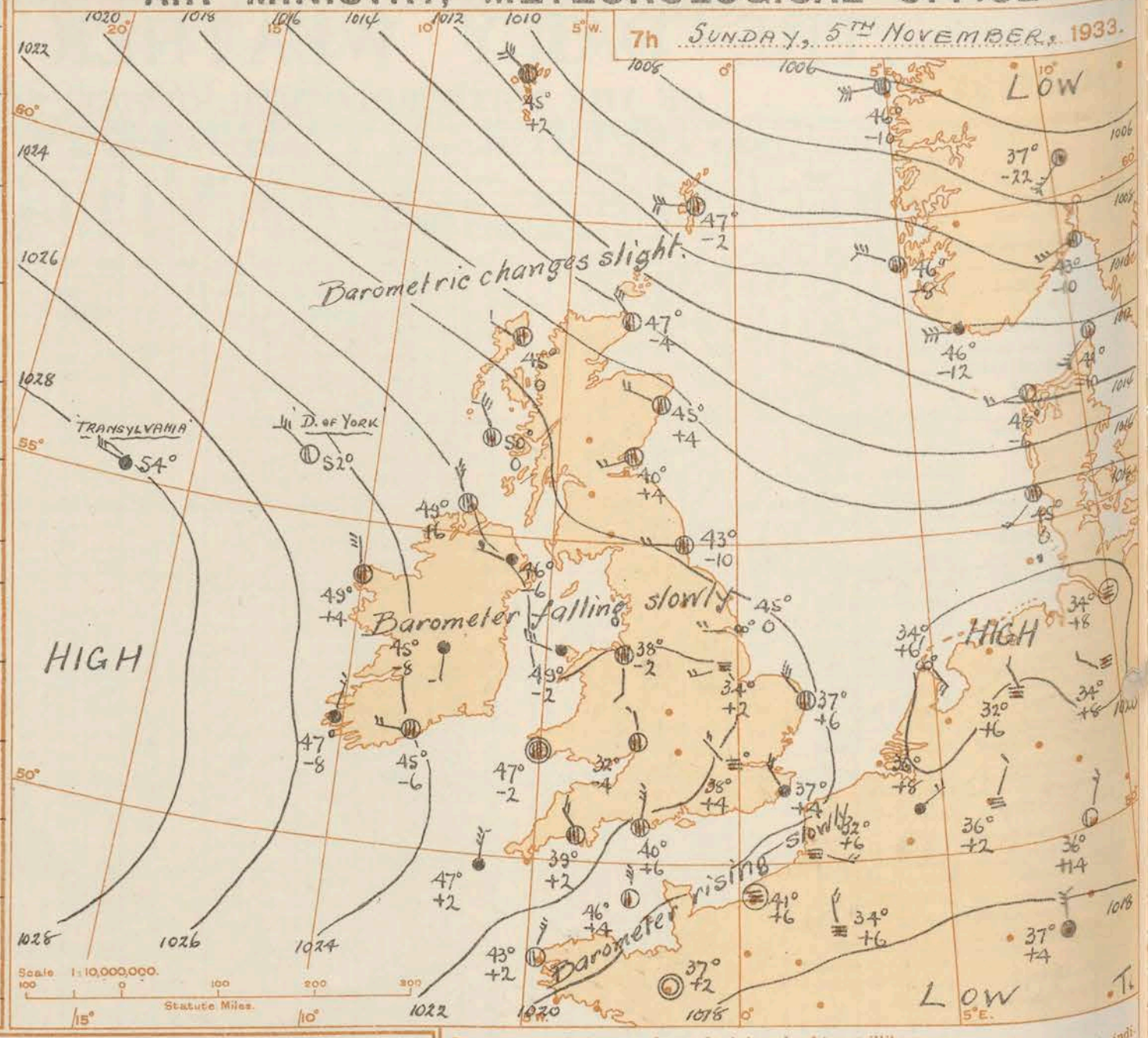
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for Saturday, 4th. November, 1933.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	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. 4th.
1	Tunbridge W.	bbc	bc	33	49	–	–	5.8
	Bournemouth	b	b	39	50	–	–	6.4
	Ventnor ...	orhbz	bbcu	40	50	1	–	6.5
	Southsea ...	b	bbcpo	41	50	–	Tr	6.8
	Bognor Regis	b	bbc	40	49	–	–	6.0
	Littlehampton	bbc	bc	39	50	–	–	6.6
	Worthing ..	b	bbccbc	40	49	–	–	6.0
	Brighton ...	bc	bc	39	49	–	–	5.7
	Eastbourne†	b	bbcb	39	51	–	–	6.4
	Hastings† ...	bbcc	cbcb	39	50	0.3	–	7.0
	Folkestone ...	rbcb	b	39	50	6	–	6.6
	Dover... ...	bc	bcpo	40	50	11	0.2	4.2
	Deal	rdcb	bcc	36	50	11	–	4.4
	Ramsgate ...	bc	bcrbc	42	52	11	0.6	5.6
	Margate ...	bc	bcp	42	50	5	0.1	4.8
2	Southend ...	bz	bcbz	39	50	Tr	–	5.2
	Maldon ...	b	bbcc	39	49	–	–	6.8
	Clacton-on-Sea	bc	bc	39	50	–	–	7.1
	Dovercourt ...	bcw	bc	34	51	–	–	5.7
	Lowestoft ...	b	bcprbc	40	51	0.1	0.3	6.1
	Skegness ...	bc	b	40	50	2	–	5.7
	Mablethorpe	cbchv	bcvc	41	51	2	Tr	6.8
	Cleethorpes ...	cp	cp	41	50	2	0.3	4.5
3	Leamington S.	bbc	bc	37	49	2	–	2.5
4	Cheltenham†	cmc	cm	38	46	0.3	–	0.8
5	Bath	bbc	bbcc	41	50	Tr	–	6.2
	Weymouth ...	b	b	41	52	–	–	7.8
	Jersey ...	rc	cbc	44	52	4	–	1.3
	Torquay ...	bzobcb	bmo	42	51	–	–	7.0
	Penzance ...	bcbrb	b	44	54	1	0.4	6.9
	St. Ives ...	pr	b	46	50	1	0.3	4.0
	Bude	bc	bc	42	51	–	–	7.5
	Ilfracombe ...	b	bbc	47	52	–	–	6.2
6	Aberystwyth	bc	bc	42	51	–	–	7.7
7	Llandudno ...	c	bbczo	46	50	–	–	3.9
	Colwyn Bay...	bccbc	bcbcp	46	49	–	–	4.3
	Rhyl	bc	bcbbc	47	50	–	–	5.2
8	Wallasey ...	bbc	bbc	41	49	–	–	5.8
	Southport‖ ...	b	bc	40	50	–	–	6.2
	Blackpool ...	cbc	bcc	40	48	–	–	6.1
	Morecambe ...	cbccb	bbc	40	48	–	–	6.0
9	Ilkley... ...	bcPR	cbcc	40	47	1	Tr	1.7
10	Berwick-on-T.	bcc	c	41	46	4	–	0.5
11	Dunbar ...	rbc	bc	40	45	Tr	–	0.1
12	Troon... ...	rcfc	fccf	38	46	Tr	–	0.0
	Douglas ...	c	c	41	49	–	–	0.2

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 5th Nov. 1933.
1. S.E. England 2. E. England...	Light northwesterly wind becoming variable; cloudy with local drizzle later; local fog; rather low temperature.
3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N Midlands 10. N.E England	Light variable winds; dull with local drizzle; much fog later; moderate or rather low temperature.
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. 17. N.W. Ireland 18. N.E. Ireland	Light northwest to west or variable winds; cloudy with local showers; local fog later; moderate temperature.
19. S.E. Ireland 20. S.W. Ireland	As 3 - 10.

BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— ◯ 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. ✳ Sleet. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. ⚡ Thunderstorm. co Slight haze.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A wedge of high pressure extends from off Southwest Ireland to Germany. A shallow trough of low pressure over Ireland and Northern England will move very slowly Southeast. Weather will be mainly cloudy with local rain or drizzle.

FURTHER OUTLOOK.

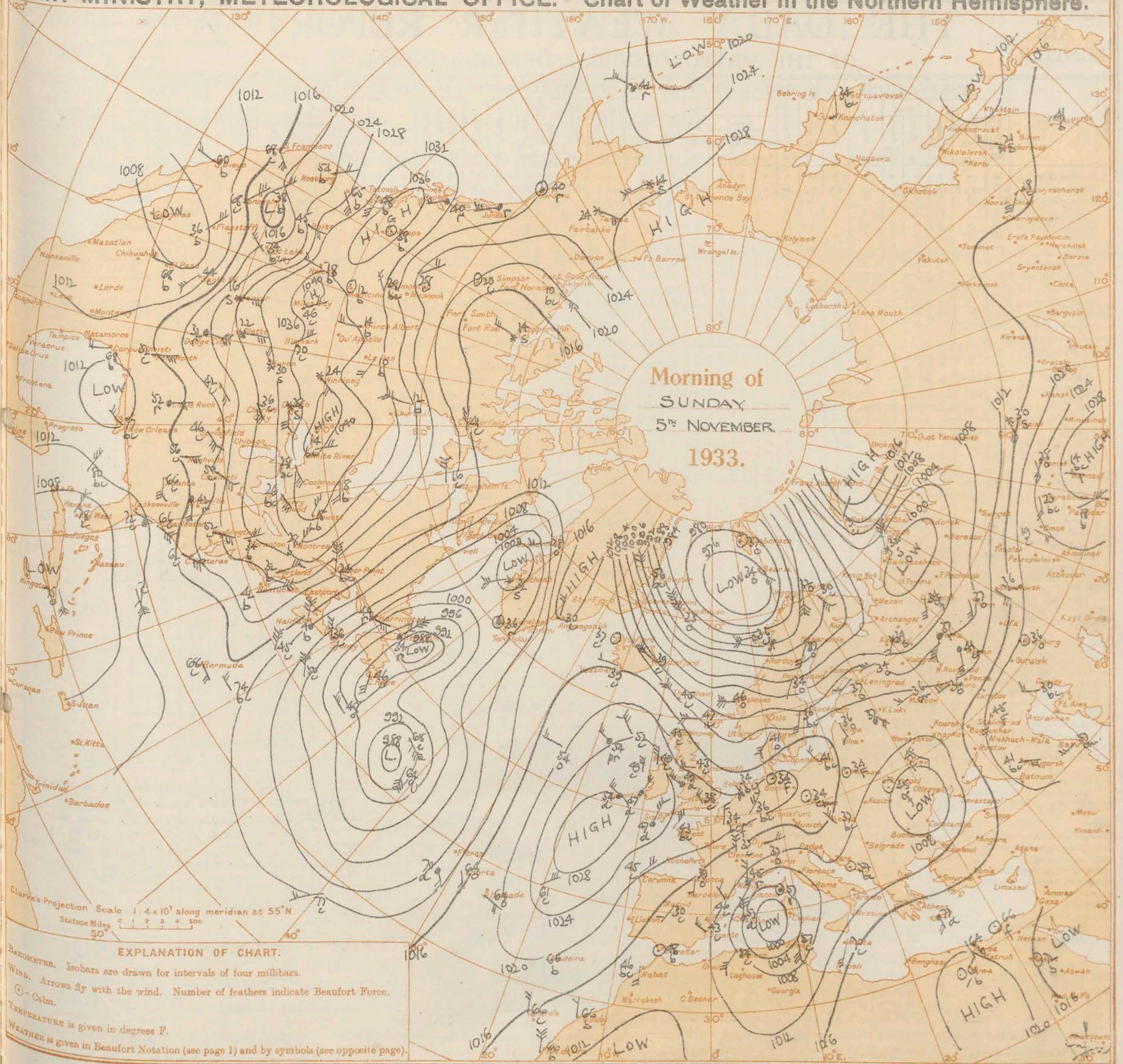
Quiet conditions with much fog.

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. Pr. 76/264&W247 D8001 Gp. 900 2100/11/33

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 5th. November 1933.

No. 26, 281

OBSERVATIONS at 1 hr. G.M.T. 5th. November

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	1021.8	+8	WSW	2	m	38	95	4	5	7	-	7.8	9	800
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot,(S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1020.2	+2	N'W	3	3o	39	95	6	5	–	–	2.3	2.3	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1020.5	+6	NNE	4	bc	45	85	7	4	–	–	2.3	2.3	2500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1021.5	0	NNE	3	b	43	85	7	–	–	–	0	0	–
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1023.4	0	N'E	3	bc	42	85	8	7	4	1	1	2.3	4000
	Scilly (St. Mary's)	163	1024.1	+2	NNE	4	bc	48	75	8	2	7	-	2.3	4.6	4000
	Guernsey ...	175	1020.5	0	NE	5	c	48	75	7	8	–	–	10	10	2500
6	Pembroke ...	142	1023.3	+2	ENE	1	c	45	85	7	5	2	-	4.6	9+	4000
7	Holyhead ...	26	1023.1	-10	N	3	c	49	75	8	5	–	-	10	10	4000
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1021.0	+2	NW'N	3	c	44	95	7	3	7	-	4.6	7.8	4000
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	100	1021.2	-12	WNW	2	c	40	85	6	4	–	-	7.8	7.8	4000
11	Inchkeith ...	190	1020.7	-10	SW	3	o	44	95	6	5	–	–	10	10	1500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts I.)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	~~1016.4~~ 1019.3	0	NW	2	c	46	85	6	8	7	-	7.8	9+	800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1017.0	-4	NNW	2	c	47	95	8	8	1	-	7.8	10	1500
16	Lerwick ...	54	1012.2	-4	W	5	c	47	75	7	8	2	-	9	10	800
17	Blacksod Point	18	1024.7	-10	W	1	dm	52	95	4	6	–	–	10	10	<150
18	Malin Head ...	52	1021.6	-18	W	3	dd	51	95	5	·	·	·	10	10	<150
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1027.5	-10	N'W	2	r o r	48	95	8	8	–	–	7.8	7.8	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 5th. November — 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 4th. Hrs. (36)
London (Kew)...	1022.1	+4	NW	2	om	38	95	4	5	–	–	10	10	1500	1	*	50	38	28	Tr	–	~~4.9~~ 5.0
Croydon ...	1021.6	+4	NNW	2	cm	38	95	4	5	–	–	9+	9+	450	1	*	47	37	33	0.4	0.1	1.2
S. Farnborough	1022.2	+2	NW'W	1	Fo	37	95	1	5	–	–	10	10	<150	1	*	49	31	25	1	Tr	4.9
Boscombe Down	1022.9	+6	N'W	1	cm	34	95	4	5	–	8	4-6	7-8	2500	0	*	48	33	31	–	–	5.8
Calshot,(S'thmtn)	1021.8	+2	NW'N	4	om	39	95	4	5	–	–	10	10	220	0	1	50	39	36	0.2	–	6.5
Dungeness ...	*	*	NNW	2	c	*	*	6	2	6	*	4-6	7-8	1500	*	2	52	35	*	–	Tr	*
Lympne ...	1020.4	+4	NNW	2	iro	37	95	6	8	3	–	4-6	7-8	4000	1	*	48	37	35	Tr	1	7.6
Shoeburyness	1020.6	+6	NNW	2	bcm	34	95	4	5	–	6	2-3	4-6	4000	1	*	50	33	30	–	Tr	6.6
Felixstowe ...	1020.3	+4	NW'N	3	c	35	95	7	8	–	8	4-6	9	2500	0	1	50	34	30	–	–	6.1
Gorleston ...	1020.6	+6	NW'N	3	c	37	95	7	8	7	–	4-6	7-8	2500	0	2	52	36	34	0.4	–	5.2
Cranwell ...	1022.1	+2	W'S	2	bcf	34	95	2	5	3	5	2-3	4-6	4000	1	*	47	34	30	4	0.3	3.5
Birmingham ...	1022.7	+2	WNW	2	c	36	95	5	–	3	–	0	7-8	–	1	*	47	36	23	–	–	5.6
Upper Heyford	1022.8	+2	N	1	cm	35	95	4	–	7	5	0	9+	–	1	*	48	34	29	0.6	0.1	*
Ross-on-Wye ...	1022.7	-4	N	1	fg	32	95	6	–	7	–	0	9	–	1	*	49	30	24	–	–	4.5
Portland Bill...	1021.7	+6	NNE	3	c	40	95	6	5	–	–	7-8	7-8	1500	0	2	52	39	*	–	–	*
Plymouth ...	1022.7	+2	NNW	2	c	39	85	7	–	7	–	0	9	–	1	1	52	38	32	–	–	7.3
The Lizard ...	1023.1	0	NNE	3	c	43	75	8	4	8	–	4-6	9	2500	1	2	52	40	*	–	–	*
Scilly (St. Mary's)	1023.4	+2	N'E	4	ido	47	95	8	8	–	–	9+	9+	2500	1	2	52	46	*	1	0.4	4.3
Guernsey ...	1020.6	+4	NNE	3	bc	46	65	7	8	–	–	4-6	4-6	2500	1	3	50	44	40	0.1	~~[illegible]~~	0.7
Pembroke ...	1022.2	-2	–	0	c	47	85	7	5	–	–	10	10	2500	0	1	52	44	*	–	–	4.9
Holyhead ...	1021.7	-2	W'N	3	ido	49	95	5	5	–	–	10	10	450	1	2	52	48	44	Tr	Tr	1.1
Chester (Sealand)	1022.3	-2	S	1	o/d	38	95	5	5	–	–	10	10	1500	0	*	49	31	25	–	Tr	0.7
L'pool (Bidston)	1021.5	0	W'N	2	o/d	44	85	8	5	–	–	10	10	2500	0	*	47	41	38	–	Tr	5.7
Manchester	1022.0	0	SE	1	fo	36	95	2	5	–	–	10	10	<150	1	*	49	27	24	–	–	*
Harrogate ...	1021.2	-6	SW	2	c	40	85	8	6	2	–	7-8	10	4000	1	*	45	36	29	0.2	–	0.9
Spurn Head ...	1020.9	0	W	2	3o	43	95	5	5	7	8	4-6	7-8	800	0	2	51	41	*	1	1	4.4
Catterick ...	1020.9	-2	SSE	1	c	37	95	8	5	2	–	4-6	10	5100	1	*	46	32	27	0.4	–	0.3
Tynemouth ...	1019.8	-10	W	2	c	43	85	7	4	–	–	7-8	7-8	4000	1	2	47	39	35	5	–	*
Inchkeith ...	1019.2	-4	SW	3	3o	47	95	6	8	7	–	7-8	9	1500	0	2	44	40	37	–	0.1	0.3
Leuchars ...	1018.7	+4	WSW	2	fg	40	95	6	–	3	8	0	9	–	1	*	45	36	30	–	Tr	0.2
Renfrew (Abbotts I.)	1019.0	-4	–	0	3o	48	95	6	5	–	–	10	10	800	1	*	46	38	36	–	0.2	0.3
Eskdalemuir ...	1020.0	0	SE'S	2	c	41	95	7	5	–	–	10	10	1500	1		43	28	25	–	–	0.5
Tiree ...	1021.1	0	N'W	4	c	50	85	7	5	1	–	9	9+	1500	1	2	49	48	45	3	1	0.7
Stornoway ...	1019.8	0	WNW	1	c	45	85	7	5	7	–	4-6	9+	1500	1	1	49	44	*	2	0.6	0.0
Dalwhinnie ...	1020.1	+2	–	0	c	44	95	7	4	4	–	4-6	10	1500	0	*	40	36	31	–	1	0.1
Aberdeen ...	1018.6	+4	WNW	2	c	45	85	6	8	7	9	1	9	4000	1	1	45	40	37	–	0.1	0.2
Wick ...	1016.7	-4	NNW	3	c	47	95	8	8	1	–	7-8	10	1500	1	2	45	44	*	0.1	0.1	*
Lerwick ...	1011.6	-2	W	5	c	47	75	7	5	–	–	10	10	1500	0	*	48	46	*	0.5	1	0.0
Blacksod Point	1025.0	+4	N	3	c	49	95	8	8	–	–	10	10	800	1	3	50	45	*	–	7	*
Malin Head ...	1022.1	+6	N'W	3	c	49	95	7	8	–	–	10	10	1500	1	0	48	47	*	Tr	3	0.7
Aldergrove ...	1022.0	-6	WNW	1	df	46	95	2	5	–	–	10	10	<150	1	*	45	44	41	Tr	1	0.0
Donaghadee ...	1021.3	-2	WNW	2	c	48	85	7	5	–	–	9	9	1500	0	1	48	43	*	0.1	1	*
Birr Castle ...	1023.6	-8	S	1	ror	45	95	7	6	–	–	10	10	2500	1	*	46	42	40	–	1	0.5
Valentia Obsy.†	1024.8	-8	NNE	2	dd	47	95	5	5	–	–	10	10	220	1	1	49	46	45	–	2	0.3
Roches Point...	1024.0	-6	W	2	c	45	95	8	3	–	–	9	9	2500	0	2	47	44	*	–	–	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich & Hampstead 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	bcr o	c3obcm	bcbxow	50	38	28	Tr	–	4.9	*	*	4
Croydon ...	217	cbbcm o	c3oprbcr	cr o bom	47	37	33	0.4	0.1	1.2	*	*	3
Greenwich (Royal Observatory) ...	149	bmc	cpc	cmrbcxw	48	37	30	1	Tr	2.9	70	93	4
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	4.3	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	50	39	34	—		4.4	69	90	*
‡Regents Pk. (Botanic Gardens) ...	168	*	*	*	49	36	29	—		6.1	73	95	*
Camden Square ...	110	bc	cb	*	50	37	30	–	–	*	*	93	*
Kensington ...	80	bc	bc	*	49	37	30	–	–	5.4	At 18h. 79	93	*
Hampstead Observatory ...	450	bc	or	bcm	46	35	28	0.2	Tr	6.4	*	97	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 5th.

South Kensington. Max.	Time.	Min.	Time.
0.3	17h-21h 4th	<0.3	Remainder of period

Kew Observatory. Max.	Time.	Min.	Time.
0.4	17h. 4th.	0.1	4h. 5th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 4th. November Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 5th. November 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 ...	1017.1	NW	1	3o	37	1019.7	N	2	fo	34	46	34	–	–
Brussels ...	1018.3	ENE	2	c	39	1019.9	NE	2	d.f	36	46	34	Tr	Tr
Berlin ...	1015.6	NW	2	c	43	1019.2	–	0	<3o	39	45	37	0.1	–
Zurich ...	1013.9	N	1	c	39	1015.0	E	2	o	37	41	31	0.1	–
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. ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 6th November 1933.

No. 26282

OBSERVATIONS at 13h. G.M.T. Sunday, 5th 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)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1021·5	-8	N'W	3	c	48	6s	5	5	3	-	4·6	9	2500
	Croydon	1021·4	-6	E	2	bcf	46	8s	3	4	3	-	1	4-6	4000
	S. Farnborough	1020·5	-18	NW'N	1	cm	45	8s	4	4	3	-	7·8	9	2500
	Boscombe Down	1021·7	-6	N	2	c	43	8s	5	-	3	-	0	9+	-
	Calshot, S'thmtn	1021·4	-6	NNE	3	bc	51	5s	7	7	4	1	2·3	4-6	4000
	Dungeness	*	*	NE	2	bc	*	*	7	5	3	*	2·3	4-6	2500
	Lympne	1020·8	-2	ENE	2	bc	46	7s	7	7	-	9	4·6	4-6	2500
2	Shoeburyness	1020·9	-2	NE'N	2	c	47	7s	6	5	3	-	7·8	9+	4000
	Felixstowe	1021·0	-2	NNE	1	c	49	7s	7	7	-	-	9	9	2500
	Gorleston	1021·0	0	N'E	2	bc	49	7s	7	2	7	-	2·3	4-6	2500
	Cranwell	1021·1	-8	SW'W	2	c	45	8s	6	5	-	-	10	10	4000
3	Birmingham	1021·9	-4	W	2	id₀	43	8s	5	5	-	-	10	10	1500
	Upper Heyford	1022·0	-6	-	0	3₀	44	8s	5	-	7	7	0	10	-
4	Ross-on-Wye	1021·7	-4	NW	1	3₀	43	8s	5	-	2	-	0	10	-
5	Portland Bill	1021·2	-6	NNE	3	c	47	7s	7	4	7	-	4-6	7-8	2500
	Plymouth	1021·7	-8	NNW	3	3₀	47	7s	5	5	7	-	4-6	9+	5700
	The Lizard	1022·3	-6	NNW	1	c	49	8s	7	4	2	-	7·8	10	2500
	Scilly (St. Mary's)	1023·1	-8	N	3	c	50	7s	8	8	7	-	4-6	9+	4000
	Guernsey	1020·4	-4	NE	3	bc	51	5s	8	1	7	8	2·3	4-6	2500
6	Pembroke	1022·1	-4	NW	1	c	51	7s	7	4	2	-	4-6	7-8	2500
7	Holyhead	1021·2	-6	N'W	4	dd	51	9s	5	5	-	-	10	10	450
	Chester (Sealand)	1021·1	-10	WNW	2	id	49	9s	4	5	-	-	10	10	800
8	L'pool (Bidston)	1020·7	-4	WNW	4	df	47	9s	2	5	-	-	10	10	450
	Manchester	1021·0	-8	S	1	df	42	9s	2	5	-	-	10	10	<150
9	Harrogate	1019·9	-6	-	0	c	49	8s	7	5	-	-	10	10	4000
10	Spurn Head	1020·3	-2	SW'W	2	3₀	46	8s	5	5	2	-	4-6	7-8	800
	Catterick	1019·6	-10	SE'S	1	c	48	8s	6	5	1	-	7·8	9+	4000
	Tynemouth	1019·6	0	W	2	o	50	8s	6	5	-	-	10	10	1500
11	Inchkeith	1019·4	-2	W	2	c	49	9s	6	5	-	-	10	10	1500
	Leuchars	1019·3	-2	W	1	c	50	8s	6	1	-	8	1	9+	2500
12	Renfrew (Abbotts I.)	1019·6	-2	W'N	3	c	50	7s	7	-	1	-	0	10	-
	Eskdalemuir	1019·4	-2	-	0	c	48	9s	7	5	-	-	10	10	1500
13A	Tiree	1022·1	0	N	4	c	51	8s	7	5	1	-	9	10	2500
13B	Stornoway	1020·4	-2	NW	2	c	50	8s	7	8	6	-	4-6	9+	1500
15	Dalwhinnie	1020·9	0	-	0	c	45	8s	8	4	2	-	4·6	10	2500
	Aberdeen	1019·1	0	W'N	3	c	49	7s	6	5	7	-	7·8	10	5700
16	Wick	1017·2	0	NW	3	d₀d₀	49	9s	7	5	2	-	7·8	10	1500
	Lerwick	1012·2	+2	WNW	4	c	47	7s	6	5	2	-	4-6	10	800
17	Blacksod Point	1026·0	+4	N	3	c	51	8s	8	5	-	-	10	10	800
18	Malin Head	1023·1	0	N'W	3	c	51	8s	7	8	-	-	9+	9+	1500
	Aldergrove	1022·5	+2	NW	3	3₀	50	7s	7	5	1	-	9+	10	2500
	Donaghadee	1021·9	-6	N	3	c	52	7s	7	5	-	-	9	9	1500
19	Birr Castle	1023·9	+2	NNW	1	c	51	8s	8	8	-	-	9+	9+	2500
20	Valentia Obsy.	1025·1	+6	N	4	c	54	7s	8	8	-	1	~~4-6~~ 7-8	9	2500
	Roches Point	1022·6	-4	W	2	id₀	49	9s	7	5	-	-	10	10	1500

OBSERVATIONS at 18h. G.M.T. Sunday, 5th 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)	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)	1020·8	0	N'W	1	c	45	8s	5	5	-	-	7·8	7-8	2500	1	*
	Croydon	1020·6	+2	N	1	of	44	8s	2	5	-	-	10	10	450	1	*
	S. Farnborough	1019·9	-2	-	0	3₀	43	9s	5	5	-	-	7·8	7-8	2500	1	*
	Boscombe Down	1021·3	+2	NNW	1	c	40	9s	5	5	-	-	9	9	4000	0	
	Calshot, S'thmtn	1020·7	+6	NW'N	3	c	46	7s	7	5	3	-	4-6	9+	5700	0	1
	Dungeness	*	*	~~E~~NE	1	c	*	*	7	5	4	*	4·6	7-8	2500	*	0
	Lympne	1020·4	-4	N'E	2	3₀	42	8s	6	5	3	-	2-3	7-8	4000	1	*
2	Shoeburyness	1020·1	-2	-	0	c	42	9s	6	5	4	-	7-8	7-8	4000	1	*
	Felixstowe	1020·1	0	NW'N	1	c	45	9s	7	5	7	8	1	7-8	4000	0	1
	Gorleston	1020·0	+2	WNW	1	bc	45	8s	6	4	3	-	2-3	4-6	2500	0	*
	Cranwell	1020·3	-2	SW'W	2	c	43	9s	5	5	-	-	10	10	4000	1	
3	Birmingham	1020·4	-4	WSW	2	d₀d₀	42	9s	4	6	-	-	10	10	1500	1	*
	Upper Heyford	1021·0	-2	-	0	cf	42	9s	3	-	7	8	0	9+	-	1	*
4	Ross-on-Wye	1020·4	-6	SW	1	3₀	44	8s	5	5	2	-	4-6	10	2500	1	
5	Portland Bill	1019·3	-10	NNE	3	bc	46	7s	7	2	4	-	2-3	4-6	2500	0	2
	Plymouth	1021·2	+2	N	2	3₀	48	7s	5	5	-	-	9+	9+	4000	1	0
	The Lizard	1021·6	0	N	1	o	47	9s	7	5	-	-	10	10	2500	1	1
	Scilly (St. Mary's)	1022·2	-2	N'E	3	c	50	8s	8	8	7	-	4-6	9+	2500	1	2
	Guernsey	1020·0	0	NE	2	bc	48	6s	9	-	3	-	0	4-6	-	0	3
6	Pembroke	1021·7	-2	NW	1	c	49	9s	7	5	-	-	9+	9+	1500	0	1
7	Holyhead	1020·8	-2	NW'N	4	c	52	7s	6	5	-	-	10	10	1500	1	2
	Chester (Sealand)	1020·7	+2	W	1	id₀	48	9s	5	5	-	-	10	10	800	1	*
8	L'pool (Bidston)	1020·6	0	-	0	3₀	47	9s	5	5	-	-	10	10	1500	1	
	Manchester	1020·4	-2	-	0	dF	44	9s	1	5	-	-	10	10	<150	1	*
9	Harrogate	1019·4	0	-	0	id₀	47	9s	5	5	-	-	10	10	2500	1	*
10	Spurn Head	1019·3	-2	SW	2	of	46	9s	3	5	-	-	10	10	220	0	1
	Catterick	1019·5	0	-	0	o	45	9s	6	5	-	-	10	10	1500	1	*
	Tynemouth	1019·1	+4	ENE	2	id₀	49	9s	7	5	-	-	10	10	1500	1	1
11	Inchkeith	1019·0	-10	WSW	2	3₀	47	9s	5	5	-	-	7-8	7-8	800	0	1
	Leuchars	1018·7	0	-	0	c	41	9s	6	-	7	8	0	9+	-	1	*
12	Renfrew (Abbotts I.)	1019·4	0	W'N	3	c	45	8s	7	-	7	2	0	9+	-	1	*
	Eskdalemuir	1019·7	+4	-	0	c	41	9s	7	-	2	-	0	9+	-	1	*
13A	Tiree	1022·0	0	NNW	4	c	51	8s	6	5	1	-	7-8	9+	1500	1	2
13B	Stornoway	1019·5	0	W	1	c	49	8s	7	8	6	-	7-8	9+	1500	1	1
15	Dalwhinnie	1019·9	+2	N	2	c	43	8s	7	4	4	-	4-6	9	1500	0	
	Aberdeen	1017·9	-6	W	2	c	~~49~~ 48	7s	6	5	-	-	10	10	2500	1	1
16	Wick	1016·1	-10	WNW	3	c	~~43~~ 48	9s	7	8	2	-	2-3	10	1500	1	2
	Lerwick	1010·6	-10	WNW	5	c/pr₀	47	8s	7	8	2	-	7-8	9+	800	0	*
17	Blacksod Point	1025·8	0	N	3	c	50	8s	7	5	7	-	4-6	7-8	450	1	3
18	Malin Head	1022·9	+4	N'W	3	c	51	9s	7	8	-	-	10	10	1500	0	1
	Aldergrove	1022·6	+4	NW	2	c	49	7s	7	5	-	-	10	10	1500	1	*
	Donaghadee	1021·8	-2	N	3	c	51	7s	7	5	-	-	9	9	1500	0	1
19	Birr Castle	1023·9	+2	NNW	1	c	48	9s	8	5	-	-	9+	9+	2500	1	*
20	Valentia Obsy.	1025·0	+2	NNE	3	c	51	7s	8	5	-	-	10	10	1500	1	2
	Roches Point	1022·0	-4	N	3	bc	51	8s	8	3	-	-	4-6	4-6	2500	0	3

PAST 24 HOURS.

District	Stations.	Weather 7h.–13h. 5th (37)	Weather 13h.–18h. 5th (38)	Weather 18h. 5th to 1h. 6th (39)	Weather 1h.–7h. 6th (40)
1	London (Kew)	cmwm₀	cbcm₀	bcm₀bF	Fcmxw
	Croydon	cmfbcf	cmbcoff	obffbcfe	oFLFeom₀
	S. Farnborough	Febfcm	cmcm₀	cm₀bF	afom
	Boscombe Down	cfcm	cm₀	ccd	cd₀cfom
	Calshot, S'thmtn	ombcm₀	cbybc	cm₀bom	bcxmcm₀
	Dungeness	bc	bc		o
	Lympne	cr₀m₀bc	bccm₀	cm₀bcm₀	cmf(D)x
2	Shoeburyness	cm₀	cm₀	cm₀bm₀w	off
	Felixstowe	ccr₀d₀c	cbcc3₀bc	bcff	ffe
	Gorleston	cbc	bcc3₀	bcc3₀(D)	coff
	Cranwell	bcfcm	cm₀	cm₀	cm₀mc
3	Birmingham	co	od₀d₀m	ocd₀	oc
	Upper Heyford	cm	cm₀	cfm₀	cm₀r₀
4	Ross-on-Wye	cm	cm₀	cod₀mom	om
5	Portland Bill	c3₀	c	bcc	ocd₀o
	Plymouth	f3₀3	c3₀	c3₀	c
	The Lizard	c	cpr₀o	oc	cpr₀c
	Scilly (St. Mary's)	id₀c	c	cid₀	cdq
	Guernsey	cbc	bcv	bcco	oc
6	Pembroke	cpr₀c	cd₀c	c3₀c	c
7	Holyhead	od₀ddm₀	cm₀	cm₀	d₀o
	Chester (Sealand)	odmd₀	Ddm	ocd₀m₀	m₀c
8	L'pool (Bidston)	ofddf	fidom	ocd₀o	cbc
	Manchester	od₀d₀ff	od₀fF	oFd₀	oFe
9	Harrogate	c	cod₀	cd₀	c
10	Spurn Head	c3	c3f	ff	off
	Catterick	cm₀	com₀d₀d₀	om₀	o
	Tynemouth	co	oid₀	oidomc	c
11	Inchkeith	3₀c	c3₀	c3₀	c3₀rr
	Leuchars	cm₀wfg	cm₀fgcw	cm₀cr₀	cwr₀rr
12	Renfrew (Abbotts I.)	cm₀c	c	c	cr₀
	Eskdalemuir	cpd₀c	c	cbo	bcopr₀
13A	Tiree	c	cid₀	cod₀	cord
13B	Stornoway	c	c	cid₀m₀	cid₀m₀
15	Dalwhinnie	c	c	*	c
	Aberdeen	cbcc3₀	c3₀	c3₀	c
16	Wick	cd₀d	cd₀dc	cr₀r	cr₀r
	Lerwick	cm₀	cpr₀	cid₀	cocd₀rm
17	Blacksod Point	ir₀	c	PRc	pr₀c
18	Malin Head	c	c	cpr₀3	c
	Aldergrove	ofd₀c	c	c	cr₀
	Donaghadee	c	c	c	c
19	Birr Castle	r₀r₀c	c	c	c
20	Valentia Obsy.	odd pr₀	c	cbcc	cod₀c
	Roches Point	coid₀	oid₀bc	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.
ip, 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: thns.
R, heavy rain. r_0, slight rain. rr, continuous rain.
< . less than (for cloud height).
⊕, Solar halo. (D) lunar halo. gale.

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.

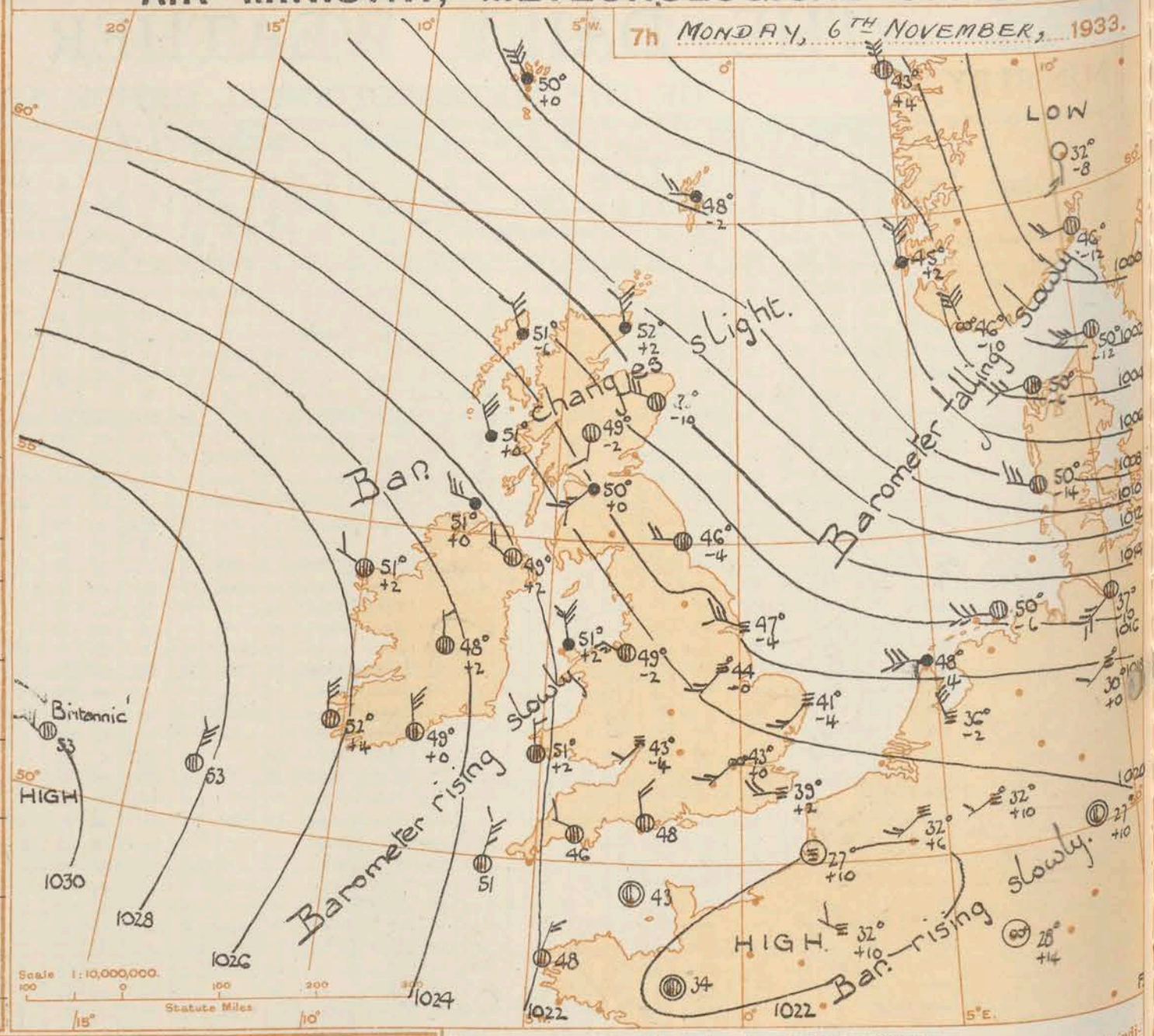
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for Sunday 5th November 1933.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	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. 5th
1	Tunbridge W.	bc	bc	30	48	-	-	4·8
	Bournemouth	o	obco	35	49	-	-	1·2
	Ventnor ...	xbcb	bcz	34	50	-	-	5·7
	Southsea ...	b	bbccm	38	51	-	-	6·2
	Bognor Regis	bc	bcbbc	36	50	-	-	6·0
	Littlehampton	bc	bc	36	50	-	-	5·6
	Worthing ...	bbcb	bbcc	36	50	-	-	6·7
	Brighton ...	bc	bc	36	50	-	-	4·5
	Eastbourne†	bbc	bcc	37	49	-	-	6·5
	Hastings† ...	bcb	bbcc	37	49	-	-	6·8
	Folkestone ...	robbc	bc	39	48	5	-	3·8
	Dover... ...	mob	bbcc	40	51	8	-	4·6
	Deal	obc	bcc	41	47	9	-	3·9
	Ramsgate ...	obcm	bccm	43	50	11	-	3·4
	Margate ...	cbc	bcc	45	48	11	-	3·1
2	Southend ...	cmbc	bccf	35	47	Trace	-	0·6
	Maldon ...	mc	cbc	34	50	-	-	1·6
	Clacton-on-Sea	c	cm	36	50	-	-	2·0
	Dovercourt ...	rbcm	bcc	35	52	Trace	-	1·7
	Lowestoft ...	b	cbbc	37	51	1	-	6·1
	Skegness ...	obco	o	38	46	Trace	Trace	0·0
	Mablethorpe	o	om	38	45	-	-	0·0
	Cleethorpes...	wom	com	37	48	-	-	0·1
3	Leamington S.	co	co	30	45	-	-	0·0
4	Cheltenham†	cwfc	cofd	31	44	Trace	Trace	0·8
5	Bath	mcbc	cm	33	47	-	-	0·6
	Weymouth ...	c	c	36	49	-	-	0·1
	Jersey ...	bc	bc	45	53	Trace	-	8·3
	Torquay ...	bcwm	bbcm	37	50	-	-	1·0
	Penzance ...	o	mco	43	51	-	-	0·0
	St. Ives ...	o	o	41	51	-	-	0·0
	Bude	oc	c	39	49	-	-	0·0
	Ilfracombe ...	o	o	39	50	-	-	0·0
6	Aberystwyth	c	cof	36	48	-	Trace	0·0
7	Llandudno ...	odo	odo	39	52	-	0·2	0·0
	Colwyn Bay...	co	odo	39	51	-	0·3	0·0
	Rhyl	om	omdo	36	50	-	0·3	0·0
8	Wallasey ...	ir	ir	40	49	1	1	0·0
	Southport‖ ...	mor	mo	39	51	1	1	0·0
	Blackpool ...	ome	odo	39	50	0·5	0·3	0·0
	Morecambe ...	ccdo	ddo	36	47	Trace	0·5	0·0
9	Ilkley... ...	o	o	33	49	-	-	0·0
10	Berwick-on-T.	o	o	37	50	-	-	0·0
11	Dunbar ...	c	bc	39	51	-	-	0·0
12	Troon... ...	rcrc	coc	39	52	0·5	-	0·3
	Douglas ...	cbc	cbc	40	52	0·5	-	2·8

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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. 6th Nov. 1933.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Light or moderate westerly wind; dull or cloudy, perhaps local drizzle or slight rain later; fog or mist locally; milder.
5. S.W. England 6. South Wales	Light or moderate northerly wind; cloudy; perhaps local drizzle or slight rain later; rather mild.
7. North Wales 8. N.W. England 9. N Midlands 10. N.E. England	Moderate wind between west and north; cloudy or dull; occasional drizzle or slight rain; mist; mild.
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. 17. N.W. Ireland 18. N.E. Ireland	Moderate or fresh northwest wind, probably backing; dull or cloudy; occasional rain or drizzle; mist locally; mild.
19. S.E. Ireland 20. S.W. Ireland	Light or moderate northerly wind; cloudy; occasional drizzle or slight rain locally; rather mild.

GENERAL INFERENCE.

A large anticyclone lies off West Ireland and a wedge of high pressure extends to France. A depression over North Norway and associated secondaries will move southeast. Weather will be cloudy and rather mild generally, and occasional drizzle or slight rain will spread southwards from Scotland and Northern England. Fog or mist will tend to persist in the Midlands and Southeast.

FURTHER OUTLOOK.

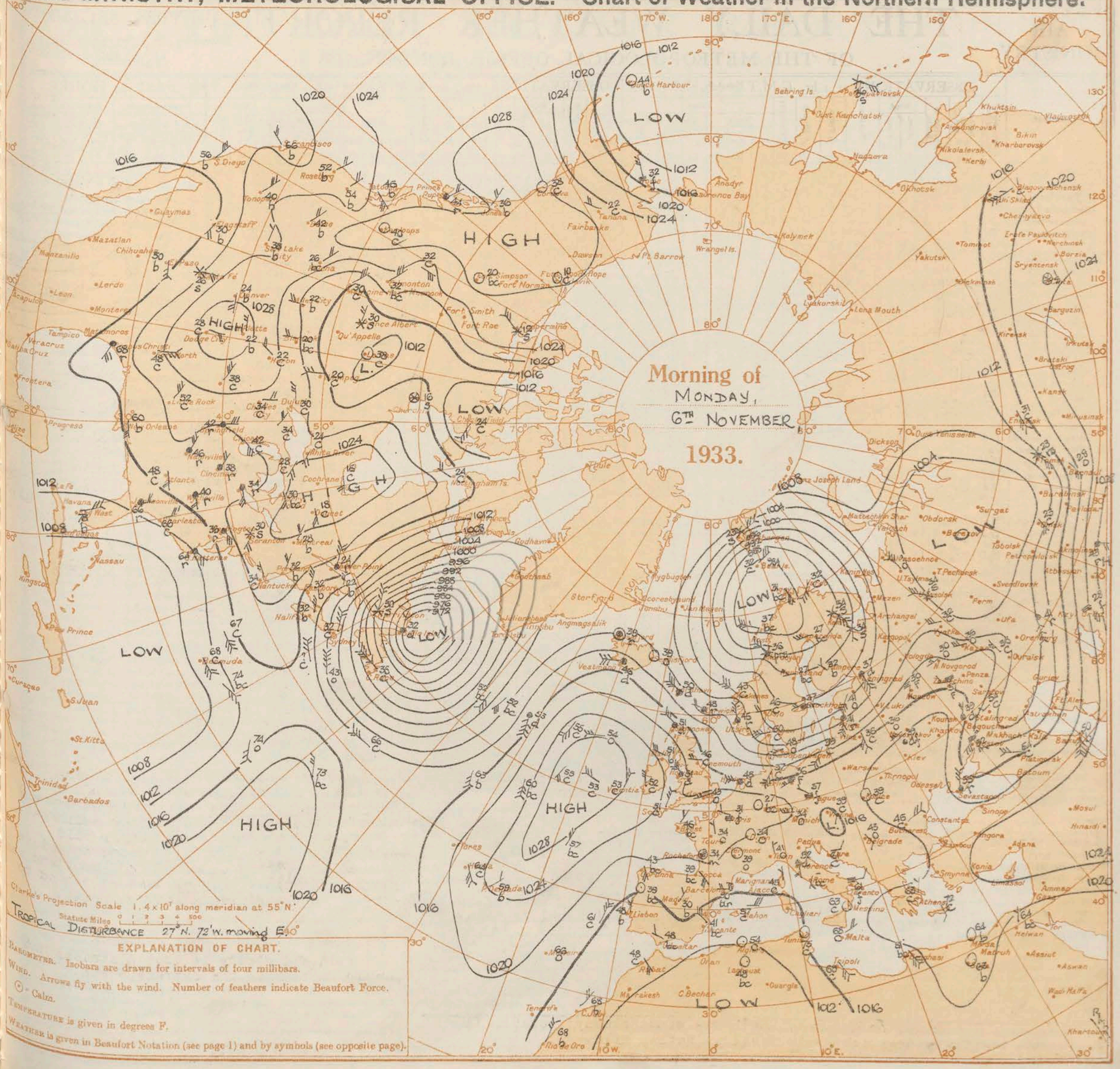
Mild and cloudy in most districts but perhaps colder in the extreme North.

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

Forecasts issued at 1000 G.M.T.

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

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



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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 6th November 1933.

No. 26282

OBSERVATIONS at 1 hr. G.M.T. Monday, 6th November

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	1021.2	-2	S'W	2	bc F	33	95	1	-	3	-	0	2-3	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1020.9	0	NNW	2	m	39	95	4	-	-	9	0	9+	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1019.7	-8	WSW	2	c	40	95	5	5	-	6	4-6	9	1500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1021.0	-2	NNE	2	c	46	75	7	4	7	-	4-6	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1022.2	0	NNE	2	c	47	85	8	4	-	-	9+	9+	2500
	Scilly (St. Mary's)	163	1022.7	+2	NE'N	2	c	48	95	7	8	7	-	4-6	7-8	2500
	Guernsey ...	175	1021.0	+4	NNE	2	o	48	75	7	5	-	-	10	10	2500
6	Pembroke ...	142	1021.6	+2	NNE	1	c	50	95	7	5	-	-	10	10	1500
7	Holyhead ...	26	1020.9	0	N'W	4	c	52	85	6	5	-	-	10	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1018.8	-2	W	3	F	45	95	1	5	-	-	10	10	<150
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	100	1018.5	0	W	2	c	48	95	7	5	-	-	9	9	1500
11	Inchkeith ...	190	1018.6	-2	SW	2	c	45	85	6	5	3	-	2-3	7-8	800
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts I)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1016.9	-22	W	3	ido	50	95	5	5	2	-	9	10	800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1013.5	-8	NW	3	roro	50	95	7	6	-	-	10	10	1500
16	Lerwick ...	54	1008.9	-14	WNW	5	ido	48	85	7	8	2	-	7-8	10	1500
17	Blacksod Point	18	1025.7	0	WNW	2	c	50	95	8	9	-	-	10	10	800
18	Malin Head ...	52	1022.1	-2	NW	2	c	52	95	7	8	-	-	9+	9+	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1026.0	+6	NE	1	o	51	95	8	5	-	-	10	10	1500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. Monday, 6th November

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)	1020.7	0	SW	1	m	41	95	4	5	-	-	10	10	1500	1	*
Croydon	1020.7	0	WSW	2	3o	43	95	5	5	-	-	10	10	450	1	*
S. Farnborough	1020.9	+2	WNW	1	m	42	95	4	5	-	-	10	10	2500	1	*
Boscombe Down	1021.0	0	-	0	m	44	95	4	5	2	-	9	10	450	1	*
Calshot, (S'thmtn)	1021.2	0	W	2	o	43	95	5	5	1	-	9	10	450	0	0
Dungeness	*	*	NE	1	c	*	*	5	5	7	*	4-6	7-8	2500	*	0
Lympne	1021.1	+2	W'N	2	of	39	95	3	5	-	-	10	10	2500	1	*
Shoeburyness	1020.2	-2	W	1	of	41	95	3	5	-	-	10	10	450	1	*
Felixstowe	1019.9	-2	W'S	1	rF	40	95	1	5	-	-	10	10	<150	0	0
Gorleston	1019.3	-4	WSW	2	f	41	95	2	5	-	-	10	10	<150	0	1
Cranwell	1019.1	0	SW'W	2	m	44	95	4	5	-	-	10	10	4000	1	*
Birmingham	1020.4	0	WNW	3	c	46	95	5	5	-	-	10	10	1500	1	*
Upper Heyford	1020.5	+2	-	0	3o	43	95	5	5	2	-	4-6	10	2500	1	*
Ross-on-Wye	1020.8	-4	SW	1	cf	43	95	3	5	1	-	9	10	2500	1	*
Portland Bill	1021.1	+4	NNW	2	c	48	95	7	5	-	-	7-8	7-8	1500	1	2
Plymouth	1021.8	0	WNW	1	c	46	95	7	5	3	8	7-8	9+	4000	1	0
The Lizard	1022.3	0	-	0	c	48	95	8	4	1	-	9	10	2500	1	1
Scilly (St. Mary's)	1023.2	+2	N'E	4	c	51	85	7	8	-	-	9+	9+	2500	1	2
Guernsey	1021.7	+6	-	0	c	43	95	7	8	-	-	7-8	7-8	2500	0	2
Pembroke	1023.1	+2	N	1	c	51	85	7	5	-	-	10	10	1500	0	1
Holyhead	1021.2	+2	NW'N	5	dodo	51	95	6	6	-	-	10	10	800	1	2
Chester (Sealand)	1020.4	-2	W'N	3	c	49	85	6	5	1	-	7-8	10	1500	1	*
L'pool (Bidston)	1020.3	0	NW'W	4	bc	48	95	7	5	7	-	4-6	4-6	2500	1	*
Manchester	1020.0	-2	S	1	F	43	95	1	5	-	-	10	10	<150	1	*
Harrogate	1018.3	0	SW	3	o	45	85	7	5	-	-	10	10	4000	1	*
Spurn Head	1017.6	-4	W'N	4	f	47	95	2	5	-	-	10	10	<150	0	2
Catterick	1017.9	-4	W'S	2	c	47	85	8	5	-	-	9+	9+	4000	1	*
Tynemouth	1017.0	-4	W	2	c	46	85	7	5	-	-	9	9	1500	1	1
Inchkeith	1017.4	0	SW	4	rr	44	95	7	6	-	-	10	10	1500	1	1
Leuchars	1016.9	-2	SW	3	rr	48	95	7	6	2	-	9+	10	1500	1	*
Renfrew (Abbotts I)	1019.1	0	WSW	4	rro	50	95	7	6	2	-	4-6	10	1500	1	*
Eskdalemuir	1017.7	-4	SW	1	c/pr	53	75	7	5	2	-	4-6	10	2500	1	
Tiree	1021.0	0	~~NW~~ NWN	34	cdo	51	95	6	5	-	-	10	10	<150	1	2
Stornoway	1017.4	+6	NW	4	cdo	51	95	5	5	6	-	9	10	800	1	1
Dalwhinnie	*	-2	S	1	c	49	~~95~~ 85	8	4	1	-	4-6	10	2500	0	*
Aberdeen	1013.2	-10	WNW	4	c	56	75	8	5	2	-	9	10	4000	1	1
Wick	1012.8	-2	NW	4	roro	52	95	7	8	2	-	7-8	10	1500	1	2
Lerwick	1007.4	-2	WNW	2	rro	48	95	5	5	-	-	10	10	450	1	*
Blacksod Point	1025.9	+2	WNW	1	c	51	95	8	9	-	-	10	10	800	1	2
Malin Head	1022.6	0	W'N	3	do	51	95	5	5	-	-	10	10	<150	1	1
Aldergrove	1022.3	+2	WNW	2	c	49	95	7	5	-	-	9+	9+	800	1	*
Donaghadee	1021.1	0	NW	2	c	51	95	7	5	-	-	9	9	1500	0	1
Birr Castle	1024.6	+2	N	1	c	48	95	7	-	1	-	0	10	-	1	*
Valentia Obsy.†	1026.0	+4	N'W	3	c	52	95	7	5	-	-	9+	9+	800	1	2
Roches Point	1024.6	0	N	3	c	49	95	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)	Min. on Grass °F. (33)	Rainfall Day 7h-18h mm. (34)	Rainfall Night 18h-7h mm. (35)	Sunshine 5th Hrs. (36)
London (Kew)	49	35	27	-	-	2.5
Croydon	48	33	30	-	Tr.	0.6
S. Farnborough	47	30	24	-	Tr.	0.3
Boscombe Down	46	37	33	-	0.5	0.1
Calshot, (S'thmtn)	51	36	29	-	-	4.7
Dungeness	48	32	*	Tr.	-	*
Lympne	46	36	29	0.1	-	3.5
Shoeburyness	48	37	35	-	Tr.	1.9
Felixstowe	50	36	35	0.1	Tr.	1.3
Gorleston	52	37	36	-	-	2.6
Cranwell	46	43	42	-	-	0.1
Birmingham	44	42	41	0.1	Tr.	0.0
Upper Heyford	44	42	41	-	0.1	*
Ross-on-Wye	44	42	38	-	Tr.	0.0
Portland Bill	48	42	*	-	Tr.	*
Plymouth	49	45	39	-	-	0.9
The Lizard	50	46	*	Tr.	0.1	*
Scilly (St. Mary's)	50	47	*	Tr.	0.5	0.0
Guernsey	51	43	35	-	-	6.8
Pembroke	51	47	*	Tr.	Tr.	0.0
Holyhead	52	51	50	0.4	0.2	0.0
Chester (Sealand)	50	44	38	0.5	0.1	0.0
L'pool (Bidston)	48	46	44	1	0.1	0.0
Manchester	44	42	41	1	0.3	*
Harrogate	50	45	41	Tr.	Tr.	0.0
Spurn Head	47	45	*	-	-	0.3
Catterick	48	44	41	Tr.	-	0.3
Tynemouth	50	44	41	0.2	0.1	*
Inchkeith	49	44	41	-	1	0.1
Leuchars	52	40	34	-	2	1.2
Renfrew (Abbotts I)	50	44	39	-	0.1	0.6
Eskdalemuir	49	31	29	Tr.	Tr.	0.0
Tiree	51	50	47	Tr.	0.2	0.0
Stornoway	50 (46)	49	*	-	0.6	0.0
Dalwhinnie	~~45~~	40	35	-	-	0.1
Aberdeen	49	46	45	-	-	0.2
Wick	49	47	*	Tr.	3	*
Lerwick	48	45	*	0.2	2	0.0
Blacksod Point	51	48	*	0.2	1	*
Malin Head	51	50	*	-	Tr.	0.0
Aldergrove	50	46	43	0.1	Tr.	0.0
Donaghadee	52	47	*	-	-	*
Birr Castle	51	42	32	1	-	0.0
Valentia Obsy.†	54	50	48	0.4	0.1	1.4
Roches Point	52	46	*	0.1	-	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except Greenwich & Hampstead 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.	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	cmwmo	cbcmo	bcmbFcx	49	35	27	-	-	2.5	*	*	3
Croydon ...	217	omfbcf	cmbcoff	obFbcFem	48	33	30	-	Tr.	0.6	*	*	5
Greenwich (Royal Observatory) ...	149	cm	cm	bfxod, f	50	33	25	-	Tr.	1.1	72	94	2
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	1.1	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	51	37	31	-		0.8	63	95	*
†Regents Pk. (Botanic Gardens) ...	168	*	*	*	50	37	27	-		1.3	69	96	*
Camden Square ...	110	bcc	c	*	51	37	31	-	-	*	*	97	*
Kensington ...	80	bcmz	bcz	*	50	37	28	-	Tr.	0.7	At 18h. 77	96	*
Hampstead Observatory ...	450	bc	bm	ofb	48	36	24	-	0.1	1.9	*	100	*

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

South Kensington. Max.	Time.	Min.	Time.
2.0	22h. 5th	<0.3	3h 5th 5h-7h. 6th

Kew Observatory. Max.	Time.	Min.	Time.
1.3	23h 5th	0.3	6h 6th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. Sunday, 5th November Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. Monday, 6th November 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 ...	1019.0	-	0	3o	36	1022.3	WNW	1	f	32	39	32	-	-
Brussels ...	1019.9	NNE	3	6		1021.5	SW	2	oF	32	41	30	Tr.	Tr.
Berlin ...	1019.4	SSE	1	3o	43	1017.2	SW'W	2	F	36	48	32	-	-
Zürich ...						1019.4	N	1	o	37		37		Tr.
Rome ...	1013.1	SSE	5	c	64	1020.6	SSW	1	bc		68	34	0.1	-

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.
- 1 Smooth.
- 2 Slight.
- 3 Moderate.
- 4 Rough.
- 5 Very rough.
- 6 High.
- 7 Very high.
- 8 Precipitous.
- 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. ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 7th November 1933.

No. 26283

OBSERVATIONS at 13h. G.M.T. 6th 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)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1020.7	-2	W'N	3	ir.	50	85	5	5	7	-	4-6	10	4000
	Croydon	1020.8	-6	W'S	2	ir.	49	85	5	5	2	-	7-8	10	2500
	S. Farnborough	1019.9	-6	NW'W	2	ir.	51	85	6	5	-	-	10	10	2500
	Boscombe Down	1021.4	-6	W'N	2	c	50	85	6	5	7	-	1	10	800
	Calshot, S'thmtn	1021.6	-4	NW'N	2	c	52	85	6	2	7	-	2-3	10	2500
	Dungeness	*	*	W	1	pr	*	*	6	8	6	*	4-6	10	1500
	Lympne	1020.8	-6	W'S	2	ir.	47	85	5	5	7	-	4-6	10	1500
2	Shoeburyness	1020.1	-6	W	1	rf	49	85	2	5	-	-	10	10	220
	Felixstowe	1019.7	-6	WSW	2	r.r.	47	95	4	5	-	-	10	10	220
	Gorleston	1018.9	-6	WSW	2	rf	46	95	3	6	-	-	10	10	800
	Cranwell	1019.4	-2	W	2	of	49	95	3	5	-	-	10	10	800
3	Birmingham	1020.4	-4	NNW	3	r.r.	50	95	5	6	2	-	4-6	10	800
	Upper Heyford	1020.8	-2	WNW	3	r.r.	50	85	6	6	2	-	7-8	10	800
4	Ross-on-Wye	1020.8	-4	SW	2	c	52	85	7	5	2	-	9+	10	4000
5	Portland Bill	1021.4	+6	W	1	c	52	85	7	5	7	-	7-8	10	1500
	Plymouth	1022.5	-6	NNW	3	id.	52	85	6	5	2	-	9	10	1500
	The Lizard	1023.3	-6	NNW	2	c/pr.	51	95	8	8	2	-	9	10	2500
	Scilly (St. Mary's)	1024.1	-2	N'E	3	c	52	85	7	8	-	-	9+	9+	4000
	Guernsey	1022.2	-6	-	0	0	52	75	7	5	-	-	10	10	1500
6	Pembroke	1022.3	0	N	2	c/d	53	85	7	5	7	-	7-8	9+	2500
7	Holyhead	1022.1	-2	NW'N	4	c	54	85	8	5	-	-	10	10	2500
	Chester (Sealand)	1021.4	0	WNW	4	id.	53	85	6	5	-	-	10	10	1500
8	L'pool (Bidston)	1021.4	+2	WNW	4	id.	51	95	7	5	-	-	10	10	1500
	Manchester	1020.6	-2	NW'N	4	3.	51	95	5	5	-	-	10	10	450
9	Harrogate	1018.8	0	SW	2	c	51	95	8	-	2	-	0	9+	-
10	Spurn Head	1017.9	-2	W	4	df	48	95	3	5	2	-	7-8	10	<150
	Catterick	1018.2	-6	N	1	c	55	85	8	5	7	2	2-3	9+	4000
	Tynemouth	1017.3	+4	W	3	c	54	85	6	4	-	-	7-8	7-8	4000
11	Inchkeith	1018.3	-2	SW	3	3.	55	85	6	5	3	2	2-3	7-8	800
	Leuchars	1017.9	+10	WSW	3	c	61	75	9	5	4	8	7-8	9	1500
12	Renfrew (Abbotts'l)	1020.0	+6	WSW	4	c	55	85	8	5	-	-	10	10	1500
	Eskdalemuir	1019.3	0	WSW	3	bc	54	85	7	5	-	3	Tr.	4-6	2500
13A	Tiree	1022.0	-6	NNW	5	3.	52	95	6	5	-	-	9+	9+	<150
13B	Stornoway	1018.7	+16	WNW	4	c	51	95	6	8	6	-	7-8	9	1500
15	Dalwhinnie	1019.2	+4	S	1	c	55	75	8	4	1	-	4-6	9	2500
	Aberdeen	1015.2	+6	WNW	6	bc	58	75	8	5	3	-	1	4-6	4000
	Wick	1014.7	+6	NW	4	c	53	95	8	9	2	-	9	10	1500
16	Lerwick	1008.7	+4	WNW	4	jp	49	95	8	8	2	-	7-8	9+	800
17	Blacksod Point	1027.4	+4	WNW	3	id	52	95	7	5	-	-	9	9	450
18	Malin Head	1023.7	+2	NW	4	jp	51	95	6	8	-	-	10	10	450
	Aldergrove	1023.7	+2	WNW	3	c	53	95	8	5	-	-	10	10	800
	Donaghadee	1022.5	+4	W	2	c	56	85	8	5	-	-	7-8	7-8	1500
19	Birr Castle	1025.4	0	NNW	1	c	53	85	8	5	-	-	9+	9+	2500
20	Valentia Obsy.	1026.5	-2	N'W	3	c	54	85	8	5	-	1	9	9+	800
	Roches Point	1024.7	+4	NW	3	c	53	85	8	3	-	-	7-8	7-8	2500

OBSERVATIONS at 18h. G.M.T. 6th 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)	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)	1021.1	+2	WSW	2	r.r.	49	95	4	6	-	-	10	10	800	1	*
	Croydon	1020.9	+2	WSW	3	ir.	49	95	4	5	-	-	10	10	800	1	*
	S. Farnborough	1020.0	+2	NW	1	r.r.	49	95	6	5	-	-	10	10	1500	1	*
	Boscombe Down	1021.7	+8	W	1	o	48	95	6	5	-	-	10	10	800	1	*
	Calshot, S'thmtn	1021.6	+6	WSW	2	o/r	49	95	6	5	-	-	10	10	1500	1	0
	Dungeness	*	*	WSW	2	r.r.	*	*	4	9	-	*	10	10	800	*	1
	Lympne	1020.9	+2	W'S	2	df	46	95	3	6	2	-	9	10	220	1	*
2	Shoeburyness	1020.4	+6	W	1	rrf	48	95	2	6	-	-	10	10	220	1	*
	Felixstowe	1019.9	+2	WSW	2	ir.	48	95	4	5	-	-	10	10	450	1	0
	Gorleston	1018.9	+4	W'N	2	r.r.	47	95	5	6	-	-	10	10	800	1	1
	Cranwell	1019.9	+10	W'S	2	of	50	95	3	5	-	-	10	10	1500	1	*
3	Birmingham	1021.2	+8	NW	4	o	51	95	5	5	-	-	10	10	800	1	*
	Upper Heyford	1021.1	+4	WNW	3	ir.	50	95	6	6	-	-	10	10	800	1	*
4	Ross-on-Wye	1021.3	+4	SW	1	o/d	52	95	8	5	-	-	10	10	2500	1	*
5	Portland Bill	1022.3	+8	NNW	3	id.	52	85	6	5	-	-	10	10	1500	1	2
	Plymouth	1022.8	+6	NW	2	id.	52	95	6	5	-	-	10	10	1500	1	0
	The Lizard	1023.8	+6	NNW	2	c	51	85	8	5	-	-	9+	9+	2500	1	1
	Scilly (St. Mary's)	1024.7	+4	N'E	3	c	51	95	7	8	7	-	4-6	7-8	2500	0	1
	Guernsey	1022.6	+4	NW	1	d	51	85	8	5	-	-	10	10	1500	0	2
6	Pembroke	1022.2	+2	NW	2	c	53	85	7	5	-	-	9+	9+	2500	0	1
7	Holyhead	1022.9	+6	NW	4	bc	53	95	7	5	8	-	4-6	4-6	2500	1	2
	Chester (Sealand)	1022.5	+10	NW'W	4	id.	52	95	6	5	-	-	10	10	800	1	*
8	L'pool (Bidston)	1023.0	+12	WNW	3	o	51	95	7	5	-	-	10	10	1500	1	*
	Manchester	1021.3	+10	NNW	3	c	51	95	5	5	-	-	10	10	800	1	*
9	Harrogate	1019.7	+6	SW	2	b	50	85	7	-	4	-	0	Tr.	-	1	*
10	Spurn Head	1018.0	0	W'N	4	cF	49	95	1	5	2	-	4-6	7-8	<150	1	3
	Catterick	1019.2	+6	W'N	3	b	53	85	7	-	4	-	0	Tr.	-	1	*
	Tynemouth	1017.5	+8	W	3	c	55	85	7	4	-	-	7-8	7-8	4000	1	1
11	Inchkeith	1019.0	+12	SW	3	bc	50	95	7	5	-	-	4-6	4-6	1500	0	1
	Leuchars	1018.0	+2	W	3	bc	55	75	8	5	3	-	1	4-6	1500	1	*
12	Renfrew (Abbotts'l)	1020.8	+8	W'S	3	c	52	95	8	5	-	-	9	9	800	1	*
	Eskdalemuir	1020.5	+6	WNW	3	bc	50	95	8	8	-	-	4-6	4-6	2500	1	*
13A	Tiree	1023.0	+8	N'W	5	id	50	95	6	5	1	-	9+	10	220	1	3
13B	Stornoway	1019.7	+2	NW	4	id.	50	95	6	5	7	-	7-8	9+	800	1	2
15	Dalwhinnie	1020.2	+2	S	1	c	50	85	8	4	1	-	4-6	7-8	2500	0	*
	Aberdeen	1015.3	-2	WNW	5	bc	55	75	8	5	3	-	1	2-3	4000	1	2
	Wick	1016.4	+4	NW	5	dd	52	95	6	9	2	-	7-8	10	1500	1	2
16	Lerwick	1011.2	+20	NNW	3	c	46	85	7	5	-	-	9+	9+	1500	1	*
17	Blacksod Point	1028.2	+6	N	2	id	50	95	7	5	-	-	9	9	450	1	3
18	Malin Head	1024.8	+8	NNW	3	id.	50	95	7	6	-	-	9+	9+	800	1	2
	Aldergrove	1024.5	+8	W'N	3	dd.	49	95	6	6	-	-	10	10	800	1	*
	Donaghadee	1023.1	+6	W	2	c	52	85	8	5	-	-	7-8	7-8	1500	0	1
19	Birr Castle	1026.4	+12	NW	1	c	51	95	8	5	-	-	9+	9+	2500	1	*
20	Valentia Obsy.	1027.0	+6	NNE	2	bc	50	95	8	8	4	-	4-6	4-6	1500	1	2
	Roches Point	1024.5	+2	N	3	bc	52	85	8	3	-	3	2-3	4-6	2500	0	3

PAST 24 HOURS.

Stations	Weather. 7h.–13h. 6th (37)	13h.–18h. 6th (38)	18h. 6th to 1h. 7th (39)	1h.–7h. 7th (40)
London (Kew)	cf m. r.	or. r m	or. r. m	o m o m.
Croydon	o m c m d r	c o m r. r.	o m r. o m	o m f f o m
S. Farnborough	c m. c r.	or. r. m.	o r r. m.	o m.
Boscombe Down	c i f m.	c o r. r.	o r r. m	c
Calshot, S'thmtn	c m.	c r. r. r m.	o r. r. m. c	o m. c
Dungeness	p	r		f
Lympne	f c o r.	c r r o d f	d f D f D f	o F F c f f
Shoeburyness	o f f i r.	o f f r r	o f f r r o m	c m.
Felixstowe	f f r. o r r m	o r. r r f m	o r. r. m o m	o p. m.
Gorleston	o f f i r	f o m r r	o r o m m	o m m i r.
Cranwell	c m r. o	f i r m f	o f c m.	c m.
Birmingham	c	c o i d.	o	o c
Upper Heyford	r. r.	r. r.	o r. c	c m.
Ross-on-Wye	c f c	c o d.	o c	b c w c
Portland Bill	c	c i d. 3.	i d o 3. c	c
Plymouth	c d. f m.	c i d. m.	c i d. m. b c	b c b w
The Lizard	c p r. c	c	c m d. o	o d. b c
Scilly (St. Mary's)	c	c	c	c i d.
Guernsey	c o i f o	o d.	o d i c	o
Pembroke	c m d c	c	c	c
Holyhead	c i d. c	c b c	b c c	c
Chester (Sealand)	c o i d.	o d. m	d. m. o r.	o r. i d.
L'pool (Bidston)	c o i d.	i d. o m o	d. o d m	m o c
Manchester	o F c	o i d. m c	c d. m.	o m. d.
Harrogate	c	c b	b	b
Spurn Head	f f d f	f d f f	f 3 f	f m
Catterick	c	c b c	b b c	b c b w b c
Tynemouth	c o i r. c	c	c	c
Inchkeith	c 3.	c 3. b c	b c	b c i r.
Leuchars	c r. q c v	c v c	b w b c w	c i r r. c v
Renfrew (Abbotts'l)	c r. c	c	c b w	b b c w
Eskdalemuir	c b c	b c	b c b w	b c w c
Tiree	c m i m i d	c m. i d.	c c r d	c i r d.
Stornoway	c i d. m.	c i d.	c i d. m.	c i d. m.
Dalwhinnie	c	c	*	c
Aberdeen	c b c q	b c q, b q,	b q b c q	b c q o d. m
Wick	c r. c	d d m.	c d. d	c d. d
Lerwick	o i r. c	c	c i r. b c	b c
Blacksod Point	i d c	i d	i d c	c d
Malin Head	c i d m	c i d.	c i d. m	c i d. m
Aldergrove	o d. c	o d d d	o d. c d. m.	o d d d. m.
Donaghadee	c	c	c i d. c	c
Birr Castle	c r. c	c	c i d.	c i d.
Valentia Obsy.	c i d. c	c b c	b c	b o b
Roches Point	c	c b c	b c	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$_o$, 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. ⚑ gale.

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.

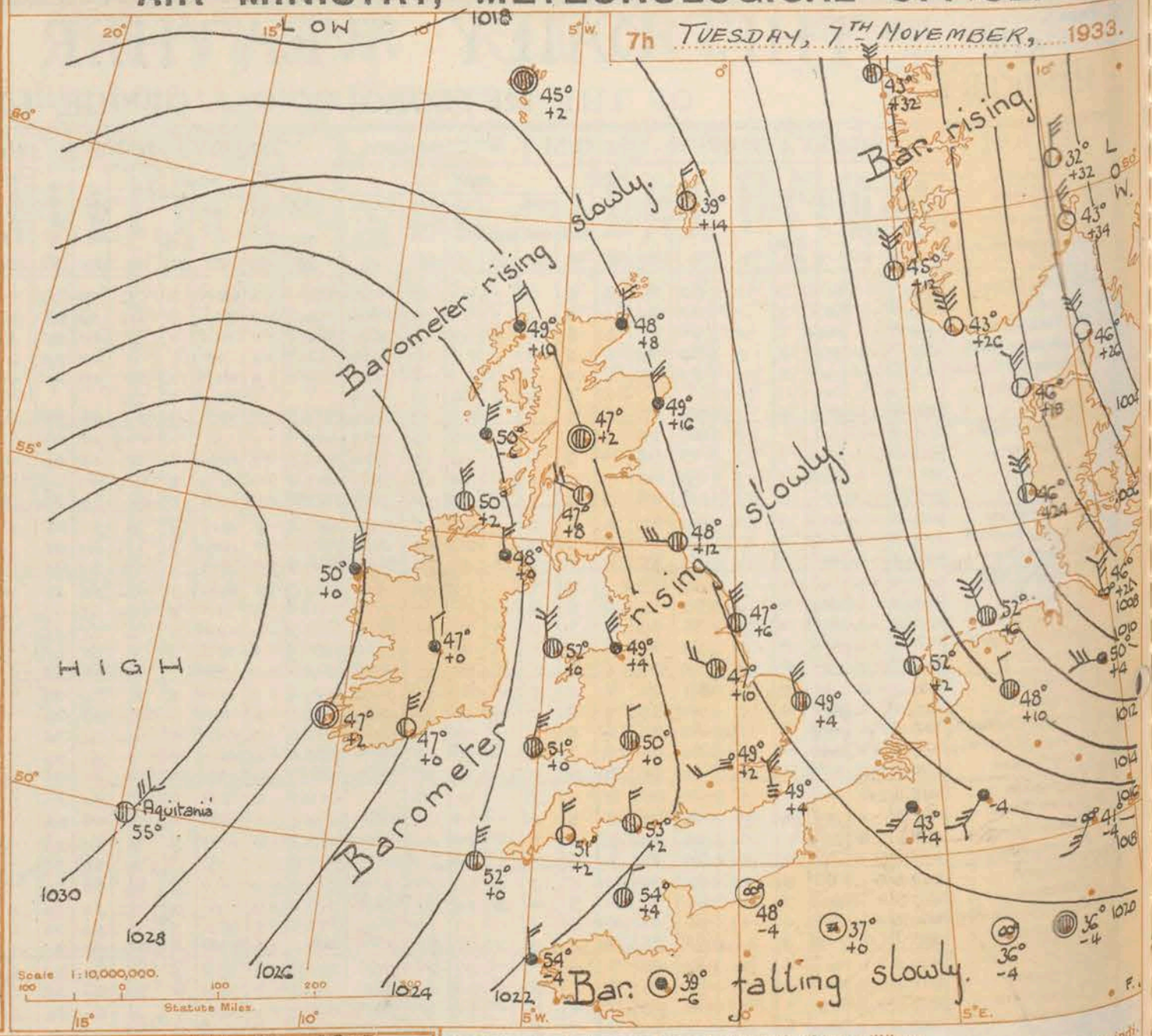
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 6th November 1933.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	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.	o	or	29	50	-	1	0·0
	Bournemouth	mo	dm	36	52	-	0·3	0·0
	Ventnor ...	oz	ozor	40	53	-	1	0·0
	Southsea ...	ocm	omp	49	53	-	0·2	0·0
	Bognor Regis	o	oir	37	51	-	1	0·0
	Littlehampton	c	cor	36	51	-	0·2	0·0
	Worthing ...	mc	cmr	37	51	-	1	0·0
	Brighton ...	crc	rc	36	51	-	0·2	0·0
	Eastbourne†	mor	rr	36	50	-	0·6	0·0
	Hastings† ...	omd	odd	39	49	-	1	0·0
	Folkestone ...	omd	omd	39	49	-	1	0·0
	Dover... ...	mor	mor	38	49	-	1	0·0
	Deal	fd	r	37	49	-	1	0·0
	Ramsgate ...	om	orm	39	48	-	2	0·0
	Margate ...	cd	cdr	39	49	-	2	0·0
2	Southend ...	afd	ofr	37	48	trace	2	0·0
	Maldon ...	fo	or	30	50	-	2	0·0
	Clacton-on-Sea	odfm	odmrr	34	48	-	2	0·0
	Dovercourt ...	foc	foc	34	50	-	3	0·0
	Lowestoft ...	ofd	ofd	36	47	0·3	4	0·0
	Skegness ...	om	fom	40	48	trace	trace	0·0
	Mablethorpe	omr	omr	39	50	-	1	0·0
	Cleethorpes ...	omr	orm	40	51	-	trace	0·0
3	Leamington S.	od	od	33	52	0·5	0·1	0·0
4	Cheltenham†	afp	ofc	41	50	1	trace	0·0
5	Bath	mcf	cm	37	53	0·3	trace	0·0
	Weymouth ...	m	cm	40	54	-	-	0·0
	Jersey ...	c	c	43	51	0·1	-	0·0
	Torquay ...	cum	com	40	54	-	-	0·0
	Penzance ...	dmc	cdc	46	58	trace	0·5	0·0
	St. Ives ...	do	od	46	53	trace	1	0·0
	Bude	poc	coc	45	53	0·6	-	0·0
	Ilfracombe ...	o	o	49	55	0·2	-	0·0
6	Aberystwyth	mrc	omc	44	53	0·3	trace	0·0
7	Llandudno ...	c	od	47	53	0·2	trace	0·0
	Colwyn Bay...	o	o	49	54	-	-	0·0
	Rhyl	c	c	43	52	-	-	0·0
8	Wallasey ...	oir	ro	46	51	trace	0·3	0·0
	Southport‖ ...	od	o	43	56	0·1	0·1	0·0
	Blackpool ...	do	oc	42	53	0·2	-	0·0
	Morecambe ...	mofc	cbbco	40	49	trace	-	0·5
9	Ilkley... ...	c	cbc	40	52	-	-	0·1
10	Berwick-on-T.	oc	bc	40	60	trace	-	2·1
11	Dunbar ...	r	cmbc	44	58	1	-	2·8
12	Troon... ...	roc	co	46	55	4	-	0·1
	Douglas ...	cqmjd	cqjddb	48	54	trace	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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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. 7th Nov. 1933.

Districts.	Forecasts
1. S.E. England 2. E. England... 3. E. Midlands	Wind northwest or north, light or moderate; cloudy; mist or local fog night and morning; mild.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Wind northerly, light or moderate; dull or cloudy, occasional local drizzle; local mist; mild.
10. N.E. England 11. S.E. Scotland	As 1 - 3.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland	Wind north or northwest, light or moderate, backing; dull or cloudy; local drizzle; mild.
16. Orkneys and Shetlands.	Wind northerly, light or moderate, backing; cloudy; occasional rain; rather mild.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 4 - 9

GENERAL INFERENCE.

An anticyclone lies off Western Ireland. Pressure is falling in Iceland but rising to the east of the British Isles. Weather will be mild and mainly cloudy. Local drizzle will occur, but chiefly in western and northern districts.

FURTHER OUTLOOK.

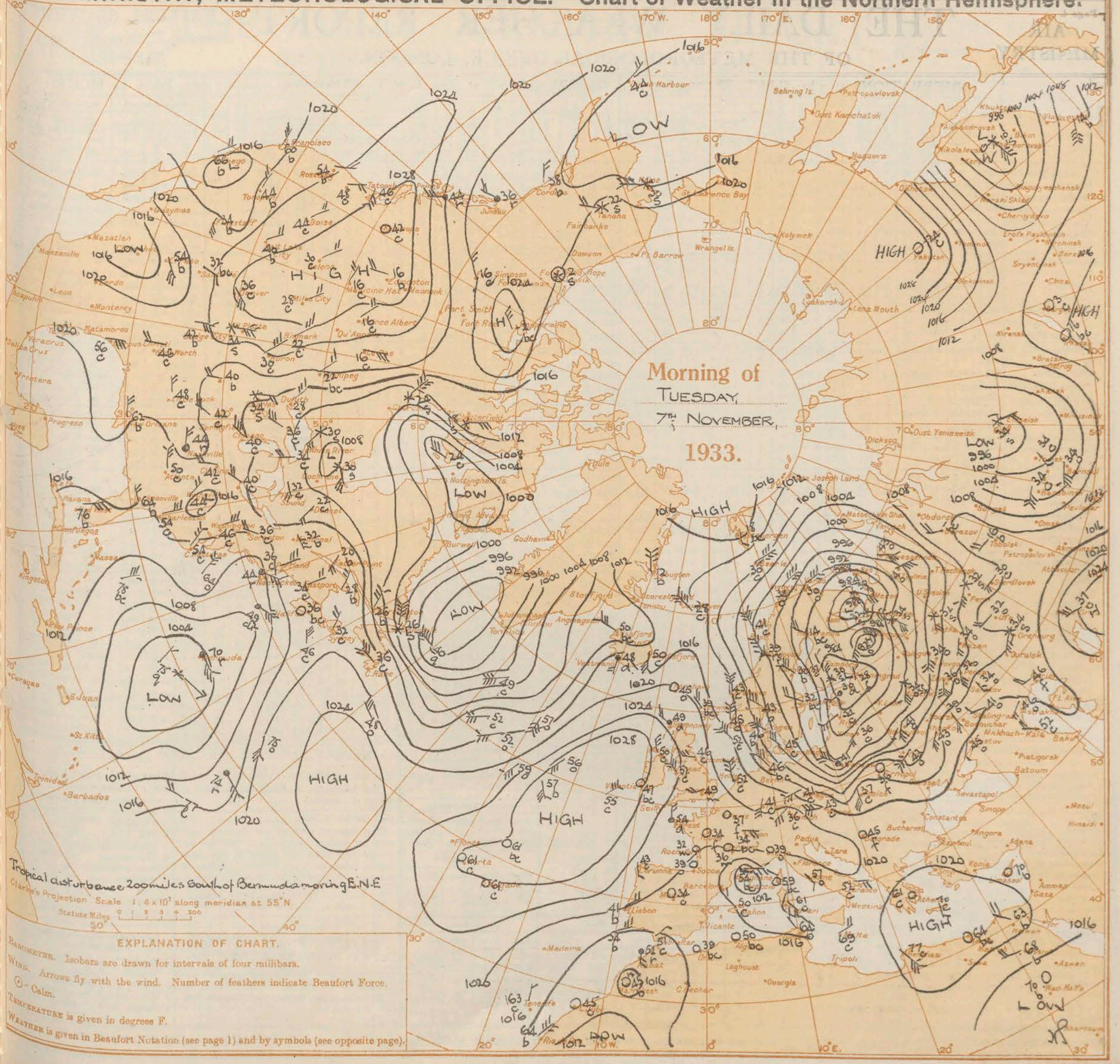
Similar in most districts; perhaps more general rain in Northern Scotland.

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

Tuesday, 7th November 1933.

No. 26283

OBSERVATIONS at 1 hr. G.M.T. 7th November

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	1021.6	-2	W	2	m	49	95	4	5	-	-	10	10	450
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1021.2	-2	NW	2	F	47	95	1	5	-	-	10	10	<150
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1019.0	0	W'N	3	m	49	95	4	5	-	-	10	10	450
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1021.7	-8	NNW	2	c	53	95	7	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1023.8	-4	NW'N	2	d.d.	51	95	6	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1025.0	-6	N	4	c	53	95	7	5	-	-	10	10	2500
	Guernsey ...	175	1021.9	-6	-	0	0	52	85	7	5	-	-	10	10	1500
6	Pembroke ...	142	1023.9	0	NNE	3	c	53	85	7	5	-	-	10	10	2500
7	Holyhead ...	26	1023.6	-4	NW'N	5	c	53	85	8	4	7	-	2-3	9	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1019.0	0	W'N	4	f	49	95	3	5	7	-	7-8	9	220
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	100	1018.6	0	W	4	c	52	85	7	4	-	-	7-8	7-8	4000
11	Inchkeith ...	190	1021.1	+6	SW	4	bc	48	95	7	5	3	-	2-3	2-3	1500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsinch)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1022.0	+8	NW	4	id.	50	95	6	5	6	-	7-8	10	800
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1017.8	+4	NNW	4	dd	50	95	7	6	2	-	9	10	1500
16	Lerwick ...	54	1015.8	+20	NNW	2	bc	40	75	8	5	-	-	2-3	2-3	1500
17	Blacksod Point	18	1029.2	+2	N	1	c	49	95	7	5	-	-	10	10	450
18	Malin Head ...	52	1026.0	+4	N'W	3	c/d.	50	95	6	8	-	-	9+	9+	800
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1028.0	0	N	2	c	51	95	8	7	-	-	7-8	7-8	1500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 7th November

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)...	1021.6	+2	WSW	1	c	50	95	5	5	3	1	2-3	7-8	2500	1	*
Croydon ...	1021.5	+2	W'S	2	m	49	95	4	5	-	-	10	10	800	1	*
S. Farnborough	1021.8	+6	NW'W	1	c	50	95	6	5	2	-	9+	10	2500	1	*
Boscombe Down	1022.0	+6	NW	1	c	49	95	7	5	-	-	9+	9+	1500	1	*
Calshot (S'thmtn)	1021.7	+4	NW'N	3	c	50	95	8	5	7	-	4-6	9+	1500	1	1
Dungeness ...	*	*	N'W	2	f	*	*	3	5	-	*	10	10	150	*	2
Lympne ...	1020.9	+4	NNW	4	bf.	49	95	3	5	-	-	10	10	800	1	*
Shoeburyness	1020.9	+4	WNW	1	c	50	95	5	5	-	-	10	10	1500	1	*
Felixstowe ...	1020.5	+4	NW'N	2	c/pr	50	95	5	7	7	-	4-6	9+	2500	1	0
Gorleston ...	1019.6	+4	NW'W	3	o/r	49	95	4	6	-	-	10	10	1500	1	1
Cranwell ...	1021.6	+10	WNW	2	c	47	95	5	8	7	-	4-6	7-8	4000	1	*
Birmingham ...	1022.2	+2	NW	3	c	48	95	6	5	-	-	10	10	1500	1	*
Upper Heyford	1021.9	0	N	1	3o	50	95	6	5	2	-	9+	10	800	1	*
Ross-on-Wye ...	1022.1	0	N	1	c	50	85	8	5	-	-	10	10	2500	1	*
Portland Bill....	1022.1	+2	NNW	2	c	53	85	7	5	7	-	7-8	9+	1500	1	2
Plymouth ...	1022.6	+2	N	2	b	51	85	9	5	-	-	Tr.	Tr.	5700	1	0
The Lizard ...	1023.2	+2	N	1	bc	51	95	8	8	-	-	4-6	4-6	1500	1	1
Scilly (St. Mary's)	1024.3	0	N'E	4	c	52	95	7	5	7	-	9	10	2500	1	2
Guernsey ...	1021.6	+4	NNE	1	o	54	95	6	5	-	-	10	10	2500	1	2
Pembroke ...	1023.0	0	NNE	3	c	51	95	7	5	-	-	10	10	1500	0	2
Holyhead ...	1023.5	0	NNW	5	c	52	85	8	5	-	-	10	10	1500	1	2
Chester (Sealand)	1023.2	+4	NW'W	3	cd.	49	95	6	5	-	-	10	10	1500	1	*
L'pool (Bidston)	1023.1	+4	WNW	4	c	49	95	8	5	-	-	10	10	2500	0	*
Manchester	1022.7	+8	N	1	3o	49	95	5	5	-	-	10	10	450	1	*
Harrogate ...	1021.8	+10	WSW	1	bc	44	95	8	-	3	-	0	2-3	-	1	*
Spurn Head ...	1020.5	+6	NW'W	3	m	47	95	4	5	3	-	4-6	7-8	450	0	2
Catterick ...	1022.1	+16	NW	1	bc	47	85	7	-	3	-	0	4-6	-	1	*
Tynemouth ...	1021.5	+12	W	3	c	48	85	6	6	-	-	7-8	7-8	1500	1	2
Inchkeith ...	1022.5	+18	SW	2	c	48	95	7	8	7	-	7-8	10	1500	0	2
Leuchars ...	1021.3	+20	W	3	c	51	85	9	5	7	-	7-8	9+	2500	1	*
Renfrew (Abbotsinch)	1023.1	+8	WNW	2	bc	47	85	8	7	-	-	4-6	4-6	4000	1	*
Eskdalemuir ...	1022.9	+14	SE'S	1	c	43	95	9	5	9	-	1	9	5700	1	
Tiree	1025.0	-6	N	3	cd.	50	95	7	5	7	-	9	9+	220	1	2
Stornoway ...	1023.2	+10	NW	2	cd.	49	95	6	8	2	-	7-8	10	800	1	1
Dalwhinnie ...	*	+12	-	0	c	47	85	8	4	1	-	7-8	10	800	0	*
Aberdeen ...	1020.6	+16	NNW	3	d.d.	49	95	4	5	-	-	10	10	1500	1	1
Wick	1020.3	+8	NNW	2	d.d.	48	95	7	9	2	-	7-8	10	1500	1	2
Lerwick ...	1019.1	+14	NNW	2	bc	39	75	8	5	4	1	2-3	2-3	2500	0	*
Blacksod Point	1029.1	0	N	3	cd	50	95	7	6	-	-	10	10	450	1	3
Malin Head ...	1026.2	+2	N'W	3	c/d	50	95	7	8	-	-	9+	9+	450	1	1
Aldergrove ...	1025.6	0	N'W	2	d.d.	48	95	5	5	-	-	10	10	450	1	*
Donaghadee ...	1024.1	-2	NW	3	c	50	85	7	5	-	-	9	9	1500	0	2
Birr Castle ...	1027.6	0	NNW	1	cd.	47	95	7	6	2	-	9	10	2500	1	*
Valentia Obsy.†	1028.1	+2	-	0	bc	47	95	8	5	-	-	2-3	2-3	1500	1	2
Roches Point...	1026.5	0	N	3	bc	47	85	8	3	-	-	2-3	2-3	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 6th Hrs. (36)
London (Kew)...	50	49	47	Z	0.4	0.0
Croydon ...	50	49	47	1	0.6	0.0
S. Farnborough	51	48	47	1	0.3	0.0
Boscombe Down	50	47	46	0.3	0.4	0.0
Calshot (S'thmtn)	52	48	47	1	1	0.0
Dungeness ...	50	45	*	1	1	*
Lympne ...	47	45	45	1	0.5	0.0
Shoeburyness	50	48	(46)	1	1	0.0
Felixstowe ...	48	47	46	3	0.6	0.0
Gorleston ...	48	42	40	5	0.3	0.0
Cranwell ...	50	46	43	0.6	Tr.	0.0
Birmingham ...	51	48	45	Tr.	-	0.0
Upper Heyford	50	49	45	0.2	Tr.	*
Ross-on-Wye ...	53	48	(36)	Tr.	-	0.0
Portland Bill....	53	50	*	Tr.	0.2	*
Plymouth ...	53	51	47	Tr.	Tr.	0.0
The Lizard ...	52	50	*	0.2	Tr.	*
Scilly (St. Mary's)	52	51	*	-	0.4	0.0
Guernsey ...	52	50	47	Tr.	1	0.0
Pembroke ...	54	50	*	Tr.	-	0.0
Holyhead ...	54	52	51	Tr.	-	0.0
Chester (Sealand)	53	49	48	Tr.	1	0.0
L'pool (Bidston)	51	49	48	Tr.	0.4	0.0
Manchester	52	49	49	Tr.	Tr.	*
Harrogate ...	54	44	37	-	-	0.5
Spurn Head ...	50	46	*	0.3	-	0.0
Catterick ...	60	44	37	-	-	1.2
Tynemouth ...	57	47	43	0.2	-	*
Inchkeith ...	55	47	46	-	0.6	2.1
Leuchars ...	62	49	45	1	1	2.3
Renfrew (Abbotsinch)	59	43	38	0.2	-	2.0
Eskdalemuir ...	58	42	37	-	-	2.1
Tiree	53	49	46	Tr.	1	0.5
Stornoway ...	53	48	*	0.2	0.1	0.5
Dalwhinnie ...	55	40	34	-	-	0.7
Aberdeen ...	58	49	47	-	Tr.	1.9
Wick	53	47	*	4	4	*
Lerwick ...	50	37	*	2	Tr.	0.0
Blacksod Point	52	48	*	0.3	1	*
Malin Head ...	51	49	*	0.1	2	0.2
Aldergrove ...	53	48	45	Tr.	1	0.0
Donaghadee ...	58	49	*	-	0.1	*
Birr Castle ...	53	47	45	Tr.	0.2	0.0
Valentia Obsy.†	55	47	41	Tr.	-	0.2
Roches Point...	55	47	*	-	-	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except Greenwich & Hampstead 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. 18h. G.M.T. % (Yesterday.)	Humidity. 9h. G.M.T. % (To-day.)	Visibility 9h. (To-day.)
Kew	18	cfm.r.	or.rm	or.r.om	50	49	47	2	0.4	0.0	*	*	4
Croydon	217	om.om.dr	com.r.	omr.ffom	50	49	47	1	0.6	0.0	*	*	4
Greenwich (Royal Observatory) ...	149	ocdf	cd.ddf	dd.fom	49	49	44	2	0.3	0.0	93	87	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	*	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	52	48	43	2		0.0	91	87	*
‡Regents Pk. (Botanic Gardens) ...	168	*	*	*	51	(48)	45	2		0.0	92	93	*
Camden Square	110	o	or	*	49	49	44	2	Tr.	*	*	91	*
Kensington	80	com	comr	*	50	49	46	1	1	0.0	At 18h. 95	91	*
Hampstead Observatory	450	of	orf	ofd	49	47	42	2	0.1	0.0	*	96	*

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 6th November. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 7th November. 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	1023.5	-	0	F	34	1021.7	-	0	of	37	37	34	-	0.4
Brussels	1021.1	SW	3	rr	39	1019.2	SW	2	pr	43	39	37	1	2
Berlin	1011.9	W	6		43	1007.1	N	5	PR	48	45	34	2	2
Zürich	1022.6	SSW	1	o	43	1021.0	ESE	1	o	39	43	37	-	-
Rome	1021.5			b	54						70		-	

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
1.0	9h.-11h. 16h.-22h. 6th	<0.3	2h.-7h. 7th

Kew Observatory. Max.	Time.	Min.	Time.
0.6	17h. 6th	0.1	6h. 7th

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. ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

‡ On this report the observations at Malin Head refer to the hours 0100 and 0800.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 8th November 1933.

No. 26284.

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. 7th (37)	Weather 13h.–18h. 7th (38)	Weather 18h. 7th to 1h. 8th (39)	Weather 1h.–7h. 8th (40)
		Observations at 13h. G.M.T. 7th November														Observations at 18h. G.M.T. 7th November																Past 24 Hours			
1	London (Kew)...	1022.2	-2	NNE	2	c	55	75	6	5	3	-	4-6	9+	4000	1023.4	+4	NNE	3	c	52	85	6	5	2	-	7-8	10	2500	1	*	cm3o	cmo	iro cmo	bmo w
	Croydon ...	1021.9	-4	NNE	2	m	54	85	4	5	2	-	9	9+	1500	1022.6	+2	NNE	3	m	52	85	4	5	-	-	10	10	800	1	*	ocmf	cm	omodocdom	cmobcb
	S. Farnborough	1022.5	-4	N	1	o	53	85	6	5	-	-	10	10	1500	1023.2	+10	N'E	1	o	52	85	6	5	-	-	10	10	2500	1	*	omo	ocomo	~~oc~~ omodo	~~omodo~~ pc
	Boscombe Down	1022.8	-2	NNE	3	c	51	95	6	5	-	-	10	10	800	1023.3	+6	N'E	1	o	51	95	6	5	-	-	10	10	800	1		c cmo	como	omoc	c
	Calshot, S'thmtn	1022.4	-2	N	3	c	54	85	7	5	-	-	10	10	1500	1022.9	+8	NNE	3	3o	52	85	6	5	-	-	10	10	1500	0	1	bcc	cmo	cmobcb	bcwc
	Dungeness ...	*	*	N	2	bc	*	*	6	4	-	*	7-8	7-8	1500	*	*	N'E	3	c	*	*	5	5	-	*	9	9	1500	*	2	bc	o		o
	Lympne ...	1021.7	-2	N	2	c	54	85	6	7	3	9	9	9+	2500	1022.3	+6	N	4	3o	50	95	5	5	-	-	10	10	1500	1	*	cfmmo	cmod	dob	c
2	Shoeburyness	1021.8	0	NNW	2	c	55	85	6	5	-	-	10	10	1500	1022.9	+12	N	2	id	50	95	6	6	-	-	10	10	1500	1	*	prcmo	comodo	omodob	cmo
	Felixstowe ...	1021.5	0	N'W	3	3o	55	75	6	5	7	9	4-6	7-8	1500	1022.7	+10	N	2	bc	48	95	7	5	-	-	4-6	4-6	1500	1	1	cmobc3o	c3oddd3cbc	bcb	bbcc
	Gorleston ...	1020.7	+6	N'W	4	c	52	95	6	5	-	-	10	10	1500	1022.1	+12	NNW	2	3o	48	85	6	5	-	-	4-6	4-6	1500	0	1	cmm	c3o3o	bc3oc	c
	Cranwell ...	1023.3	+2	NW	2	c	52	95	5	5	2	-	9	10	2500	1024.3	+10	NW'N	2	c	50	95	6	5	-	-	10	10	2500	1		cmo	cmo	cmobf	ofdodo
3	Birmingham ...	1023.5	+2	NNW	2	m	52	85	4	6	3	-	4-6	7-8	1500	1024.6	+8	NNW	2	of	50	95	3	5	-	-	10	10	800	1	*	c	cm	ofm	om
	Upper Heyford	1023.2	+2	N	2	3o	53	85	6	5	3	-	9	9+	2500	1024.2	+10	NNE	2	3o	51	85	5	5	2	-	9	10	800	1	*	cbcmo	cmo	cmodo	cmodo
4	Ross-on-Wye ...	1023.0	+4	NNE	2	c	53	85	7	5	-	-	10	10	2500	1023.8	+6	N'E	1	3o	51	85	5	5	-	-	10	10	1500	1	*	c	co	omog	gom
5	Portland Bill...	1022.1	0	N	3	c	54	75	7	5	-	-	10	10	1500	1023.0	+10	N	2	c	53	85	7	5	-	-	10	10	1500	0	2	c	c	c	c
	Plymouth ...	1023.1	0	NNE	3	c	56	75	8	5	-	-	9+	9+	2500	1023.5	+10	NNW	3	3o	53	85	5	5	-	-	10	10	2500	1	1	bvc	c c3o	c3o	o3o
	The Lizard ...	1023.7	-4	NNW	2	c	53	85	8	4	7	-	4-6	7-8	2500	1024.1	+4	N	2	ido	50	95	8	5	-	-	10	10	2500	1	1	bcc	cpdoo	opdoo	o3o
	Scilly (St. Mary's)	1024.8	0	N'E	4	c	52	85	7	5	-	-	10	10	2500	1024.4	+4	N'E	4	dd	51	95	5	5	-	-	10	10	1500	1	2	cido	dd m	ocido	c
	Guernsey ...	1021.9	-4	NE'N	2	c	55	85	8	8	2	-	7-8	9+	2500	1022.0	+8	N'E	2	o	55	85	7	5	-	-	10	10	2500	0	3	odoc	co	o	oc
6	Pembroke ...	1024.3	+4	NNE	2	c	53	85	7	5	-	-	9	9	1500	1024.3	0	NNE	2	c	52 (51)	95	7	5	-	-	9	9	1500	1	2	c	ciro	c	cbc
7	Holyhead ...	1024.6	-2	N'E	3	c	53	85	7	4	-	-	9	9	1500	1025.1	+6	N	3	c	53	85	8	5	-	-	10	10	1500	1	2	cidoc	c	Pddd o	cdc
	Chester (Sealand)	1024.8	0	NWW	3	c	52	75	8	5	3	-	4-6	7-8	1500	1025.4	+6	WNW	2	c	49	85	6	5	-	-	7-8	7-8	4000	1	*	oidocbc	bcc	bcomo	cwmo
8	L'pool (Bidston)	1024.6	+2	WNW	3	b	51	85	8	7	-	-	Tr.	Tr.	4000	1025.5	+4	W	2	bc	48	95	7	5	4	-	4-6	4-6	2500	0		bcb	b,cbc	bc	coroo
	Manchester	1024.2	-2	-	0	m	54	85	4	-	3	-	0	7-8	-	1024.2	+4	W'N	3	bcf	48	95	3	5	-	-	2-3	2-3	800	1	*	ocbcm	bcmf	bcofe	ofefe
9	Harrogate ...	1023.3	+6	NNW	2	c	54	75	8	2	3	-	1	9	4000	1024.7	0	-	0	o	49	85	5	5	-	-	10	10	2500	1	*	bbcc	co	co	cbc
10	Spurn Head ...	1021.9	0	NW'N	5	c	52	85	6	5	2	-	4-6	9+	1500	1022.8	+6	N'E	3	ido	49	95	7	3	7	-	4-6	7-8	4000	1	2	mcpd	cid	cid	cdFfd
	Catterick ...	1023.8	+4	N	2	bc	55	75	7	4	4	4	1	2-3	4000	1024.8	+8	-	0	c	49	95	6	5	-	-	9+	9+	2500	1	*	bccb	bccmo	cmobw	wcbcfg
	Tynemouth ...	1023.8	+8	WNW	2	c	52	85	7	6	-	-	7-8	7-8	1500	1023.8	+6	NNW	2	c	51	95	7	6	-	-	9	9	1500	1	2	ciroc	c	co	obc
11	Inchkeith ...	1023.7	+6	WSW	2	3o	51	85	5	5	3	-	7-8	9+	800	1024.2	0	SW	3	3o	50	95	6	5	3	-	4-6	4-6	1500	0	2	c3o	c3o3o	c3o3o	c3o3ow
	Leuchars ...	1023.2	+6	W	3	bc	55	75	8	5	7	-	2-3	4-6	4000	1023.5	+2	WNW	2	c	52	85	8	5	-	-	9+	9+	4000	1	*	cvc	bcc	obcwmo	bccbwm
12	Renfrew (Abbotts I.)	1024.2	+2	W'N	3	c	52	85	8	-	3	-	0	9+	-	1024.3	+2	SW'W	2	c	48	95	7	5	-	-	7-8	7-8	4000	1	*	bc wc	c	cmo	moFFw
	Eskdalemuir ...	1023.9	+4	SSE	1	c	53	75	8	5	9	1	4-6	9	4000	1025.0	+4	-	0	bc	43	95	8	-	3	-	0	4-6	-	1	*	c	bc	bc	bcffe
13A	Tiree ...	1026.4	+2	N'W	3	c	51	95	8	5	-	9	7-8	9	450	1026.3	+2	NNW	2	c/d	50	95	7	5	-	-	10	10	450	1	2	cido	cido	ccdo	ccdo
13B	Stornoway ...	1024.8	+6	WNW	2	ido	51	95	6	5	2	-	9	10	800	1024.9	+2	WNW	2	c/d	51	95	6	5	2	-	9	10	800	1	1	cidomo	cidom	cmo	cmo
15	Dalwhinnie ...	1025.3	+4	N	1	c	49	85	8	4	1	-	4-6	9	2500	1026.1	+4	-	0	c	47	85	7	4	1	-	7-8	10	1500	0	*	c	c	*	c
	Aberdeen ...	1023.2	+6	-	0	dd	48	95	6	6	-	-	10	10	1500	1023.7	+6	WNW	3	c	51	85	7	5	7	-	2-3	7-8	2500	1	1	oddrr	dooc	bccdo	c
	Wick ...	1022.6	+8	E	1	dd	49	95	6	6	2	-	9	10	1500	1022.3	0	NNW	2	c	50	95	7	9	2	-	7-8	9+	1500	1	2	c cmo	domoc	c	c
16	Lerwick ...	1020.7	+8	NNW	1	c	45	75	8	5	7	-	4-6	9	2500	1021.2	0	-	0	c	45	75	8	5	2	-	4-6	9	1500	0	*	bcc	c	coffecidm	ccfcdo
17	Blacksod Point	1029.6	0	N	3	c	51	95	8	5	-	-	7-8	7-8	800	1029.0	0	N	1	c	50	85	8	5	-	-	10	10	800	1	2	ir	iro	idf	ir
18	Malin Head ...	1027.3	0	N'W	3	jp	51	95	7	3	-	-	9	9	800	1026.8	0	NW	2	d	50	95	6	3	-	-	9	9	800	1	1	cido	cpodm	cpodm	ccdm
	Aldergrove ...	1027.0	+4	NW	3	c	51	85	8	5	-	-	9+	9+	800	1026.6	0	NW	2	c	49	95	8	5	-	-	10	10	1500	1	*	cdo	c	c	co
	Donaghadee ...	1025.9	+2	N	3	c	53	85	8	8	3	-	7-8	7-8	1500	1025.9	+2	N	3	c	52	85	8	5	-	-	9	9	1500	0	2	c	c	c	ccdoc
19	Birr Castle ...	1028.1	+4	N	1	c	50	85	8	5	-	-	10	10	2500	1027.8	+2	N	1	c	50	85	8	5	-	-	9+	9+	2500	1	*	idc	c	c	co
20	Valentia Obsy.	1028.7	-2	NNE	3	c	52	75	8	5	-	-	9+	9+	1500	1028.6	+4	N'E	1	bc	48	85	8	5	-	-	2-3	2-3	1500	1	2	bbcc	cbc	bcc	c
	Roches Point...	1027.3	0	NW	3	c	51	75	9	5	-	-	7-8	7-8	2500	1026.8	-2	N	2	c	51	75	8	3	-	-	7-8	7-8	2500	0	2	bccv	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. r_o, slight rain. rr, continuous rain.

<. less than (for cloud height).

⊕, Solar halo. ⊕ lunar halo. gale.

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.

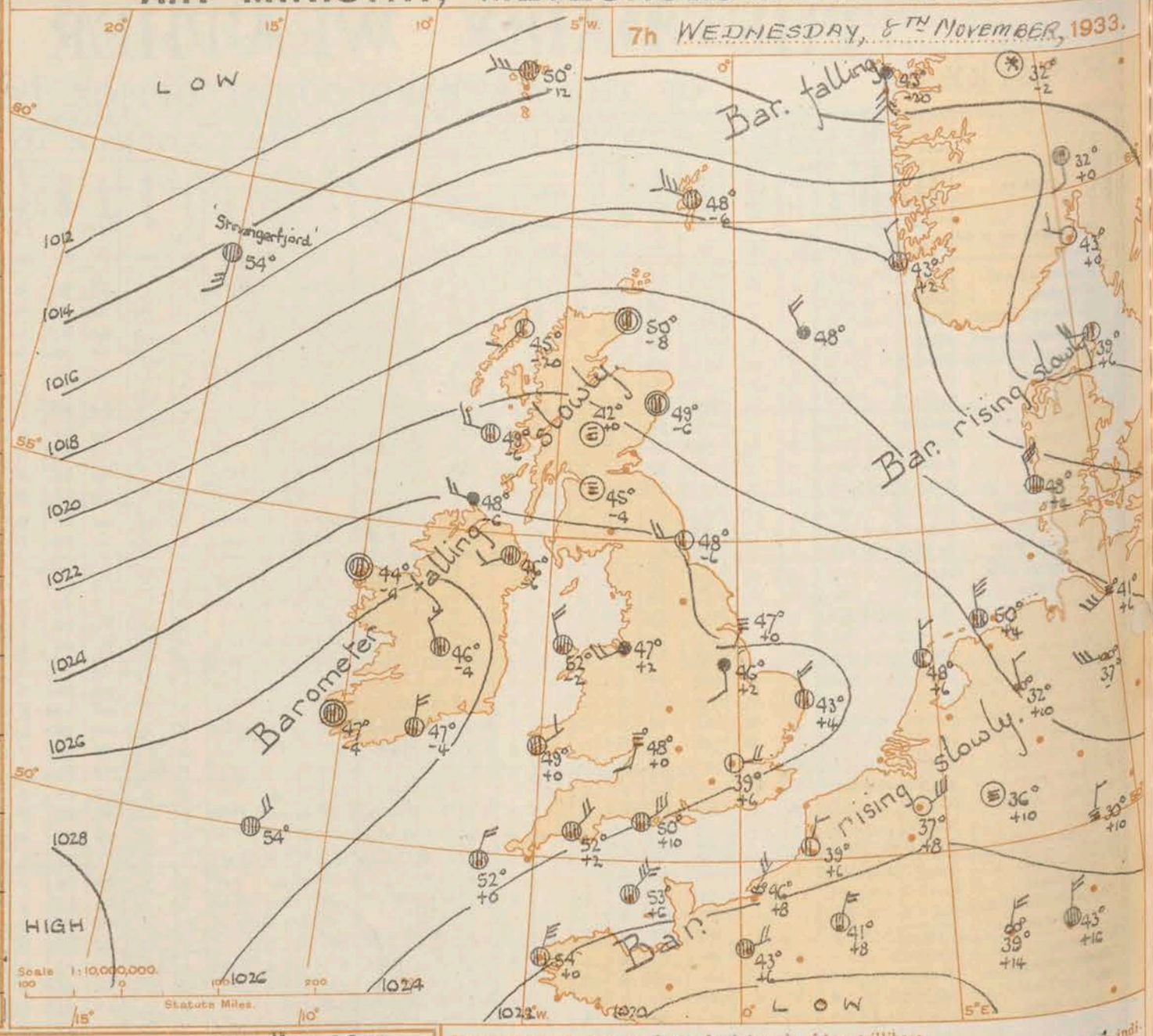
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for 7th November 1933.

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.	co	o	40	54	2	–	0.0
	Bournemouth	bo	om	47	55	1	–	2.7
	Ventnor ...	rpco3	oc3	46	54	1	–	0.9
	Southsea ...	bcc	c	45	55	1	–	1.8
	Bognor Regis	ocbc	bco	44	56	2	–	2.4
	Littlehampton	cbcc	co	44	57	2	–	1.6
	Worthing ...	c	cbcco	45	56	1	–	0.8
	Brighton ...	cbc	bcc	45	56	2	–	0.4
	Eastbourne†	od0	oco	46	56	1	trace	0.7
	Hastings† ...	oc	cbco	47	56	2	–	1.3
	Folkestone ...	ocbc	bcco	45	56	1	–	0.3
	Dover... ...	mcbcc	cm	47	56	1	–	0.3
	Deal	fco	o	44	55	1	–	0.3
	Ramsgate ...	cpcm	bccm	43	55	1	–	1.5
	Margate ...	bc	bccd0	44	53	1	trace	1.0
2	Southend ...	com	om	42	55	0.6	–	0.4
	Maldon ...	oc	co	47	55	1	–	0.8
	Clacton-on-Sea	ocbcc	coge	41	55	1	–	1.0
	Dovercourt ...	roc	dcd	41	55	1	0.5	1.8
	Lowestoft ...	cdd0	cid0c	44	53	1	trace	0.0
	Skegness ...	om	om	44	55	1	trace	0.0
	Mablethorpe	cmcd0	od,m0	46	49	–	"	0.0
	Cleethorpes ...	om	od0	46	53	–	(trace)	0.0
3	Leamington S.	c	c	47	55	–	–	0.0
4	Cheltenham†	om	oco f0	46	52	trace	–	0.0
5	Bath	mc	c	47	54	trace	–	0.0
	Weymouth ...	bc	c	49	56	0.3	–	2.1
	Jersey ...	pc3	pc3	48	57	0.3	0.2	0.0
	Torquay ...	wc3	bz0	46	58	–	–	1.1
	Penzance ...	cd0c	od0	51	55	trace	trace	0.1
	St. Ives ...	b	o	50	54	trace	trace	0.0
	Bude	doc	c	51	54	trace	–	0.0
	Ilfracombe ...	co	o	52	54	–	–	0.0
6	Aberystwyth	c	c	49	53	–	–	0.0
7	Llandudno ...	c	c	50	53	0.1	–	0.0
	Colwyn Bay...	o	o	49	52	0.3	–	0.0
	Rhyl	od0c	c	49	51	0.1	–	0.0
8	Wallasey ...	cbc	bcc	49	52	0.3	–	3.5
	Southport‖ ...	bpcc	cbcb	47	54	–	–	3.2
	Blackpool ...	cbc	c	46	52	–	–	3.0
	Morecambe ...	mcbcb	cbc	38	52	trace	–	3.0
9	Ilkley... ...	c	c	45	52	–	–	0.1
10	Berwick-on-T.	c	co	46	55	0.3	–	0.6
11	Dunbar ...	rbcm0	bc	46	54	2	–	0.3
12	Troon... ...	pc	bc	49	53	trace	–	0.8
	Douglas ...	bc	bccb	49	54	0.3	–	6.7

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :— Clear sky. Sky less than 1/10 clouded. Sky 4/10 to 5/10 clouded. Sky 7/10 to 8/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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. 8th Nov. 1933

Districts.	Forecasts
1. S.E. England 2. E. England...	Wind northeast or variable, light; mainly fair; local fog night and morning; rather mild.
3. E. Midlands 4. W. Midlands	Wind variable or westerly, light; cloudy, some brighter intervals; local mist or fog; rather mild.
5. S.W. England 6. South Wales	Wind northeast or variable, light; cloudy, bright intervals locally; morning mist; mild.
7. North Wales 8. N.W. England	Wind west or southwest, light or moderate; cloudy, local drizzle and mist; perhaps rain later; mild.
9. N Midlands	As 2 - 4.
10. N.E England 11. S.E. Scotland	Wind west or southwest, light or moderate; cloudy, brighter intervals locally; perhaps rain later; mild.
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. 17. N.W. Ireland 18. N.E. Ireland	Wind west or southwest, moderate or fresh; cloudy, local drizzle, probably rain or showers later; mild.
19. S.E. Ireland 20. S.W. Ireland	Wind variable to westerly, light or moderate; cloudy; perhaps occasional rain later; mild.

GENERAL INFERENCE.

A belt of high pressure extends from southwest of Ireland across England to Germany. Depressions are moving east in the neighbourhood of Iceland. Weather will be mainly fair in the Southeast but unsettled in the Northwest. Fog is probable in England tonight.

FURTHER OUTLOOK.

Westerly winds; rain or showers, especially in West and North.

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

Wednesday 8th November 1933.

No. 26284

OBSERVATIONS at 1 hr. G.M.T. 8th November

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	1023·9	+2	NE	2	c/d	48	85	6	5	7	-	7-8	9+	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1023·4	+2	N	3	b	43	95	7	5	-	-	1	1	5700
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1023·5	-2	NNE	2	c	47	75	7	5	-	-	9+	9+	2500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill ...	32	1023·7	+2	NE	3	c	51	85	7	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1024·3	0	N'E	2	o	51	85	7	5	-	-	10	10	2500
	Scilly (St. Mary's)	163	1024·8	0	NE'E	3	c	51	85	7	8	-	-	7-8	7-8	4000
	Guernsey ...	175	1022·4	-2	NE	4	o	55	85	5	5	-	-	10	10	2500
6	Pembroke ...	142	1025·9	+4	NNE	2	c	51	85	7	5	-	-	7-8	7-8	2500
7	Holyhead ...	26	1025·1	-6	NW'N	3	dd	51	95	5 4	5	-	-	10	10	450
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1024·0	+2	NW'W	3	id₀	47	95	6	5	2	-	7-8	9+	2500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	100	1024·0	-4	W	2	o	49	85	6	6	-	-	10	10	1500
11	Inchkeith ...	190	1024·5	-4	SW	2	3₀	47	95	5	5	-	-	9+	9+	1500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts I.)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1023·6	-10	W	2	c	49	95	6	8	6	-	4-6	7-8	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1021·7	-10	NW	3	c	50	95	8	8	4	-	7-8	7-8	1500
16	Lerwick ...	54	1018·7	-20	W	4	id₀	49	95	4	5	3	-	7-8	9+	220
17	Blacksod Point	18	1027·6	-4	-	0	c	49	95	6	5	-	-	10	10	450
18	Malin Head ...	52	1025·8	-6	NW	2	c/d	47	95	5	3	-	-	9+	9+	450
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1028·1	-6	E'S	2	c	48	95	8	5	-	-	9+	9+	1500
	Roches Point ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 8th November — 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)	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 7th Hrs. (36)
London (Kew)	1025·0	+6	N'E	2	bc	44	85	5	5	-	-	2·3	2·3	2500	1	*	56	44	33	-	Tr.	0·6
Croydon	1024·8	+6	E	2	b	39	95	6	-	3	-	0	1	-	1	*	55	39	33	-	Tr.	0·0
S. Farnborough	1024·6	+2	N'E	1	c	46	85	6	5	1	-	9+	10	2500	1	*	55	46	43	-	Tr.	0·0
Boscombe Down	1024·6	+6	NE'N	1	c	46	95	7	5	2	-	9+	10	800	1	*	52	46	45	-	-	0·0
Calshot (S'thmtn)	1024·1	+6	N'E	2	bc	48	85	8	5	-	-	4-6	4-6	1500	0	1	54	47	44	-	-	1·3
Dungeness	*	*	N	2	o	*	*	7	5	-	*	9	9	1500	*	2	57	40	*	-	-	*
Lympne	1023·6	+2	N	3	c	44	85	8	5	-	-	9+	9+	4000	1	*	54	41	39	Tr.	Tr.	0·6
Shoeburyness	1024·1	+4	N	1	c	39	85	6	5	-	8	7-8	9+	4000	1	*	55	37	36	0·2	Tr.	0·5
Felixstowe	1024·2	+4	NW	2	c	42	85	7	5	-	-	9+	9+	4000	0	0	55	40	37	0·2	-	1·3
Gorleston	1024·3	+4	NW'W	2	c	43	85	6	4	-	-	9	9	2500	0	2	53	42	40	-	-	0·2
Cranwell	1025·0	+2	S'E	1	df	46	95	3	5	-	-	10	10	<150	1	*	53	44	41	-	0·6	0·0
Birmingham	1025·2	0	NNW	2	m	48	95	4	5	-	-	10	10	800	1	*	53	46	46	-	-	0·2
Upper Heyford	1025·5	+4	E	1	id₀	45	95	6	5	2	-	9	10	450	1	*	53	45	45 (44)	-	Tr.	*
Ross-on-Wye	1024·8	0	SSW	1	m	48	95	4	5	-	-	10	10	1500	1	*	53	47	46	-	-	0·0
Portland Bill	1024·1	+10	ENE	3	c	50	95	7	5	-	-	10	10	1500	0	3	56	49	*	-	-	*
Plymouth	1024·1	+2	NE'N	2	3₀	52	85	6	5	-	-	10	10	2500	1	0	58	52	49	-	-	3·6
The Lizard	1024·4	0	NNE	2	o	51	85	6	5	-	-	10	10	1500	1	2	53	50	*	Tr.	Tr.	*
Scilly (St. Mary's)	1024·8	0	NNE	2	c	52	95	6	5	-	-	10	10	4000	1	1	52	51	*	0·3	-	0·0
Guernsey	1023·1	+6	NE	5	c	53	75	7	3	-	-	10	10	2500	0	4 0	55	53	50	Tr.	-	0·0
Pembroke	1024·9	0	ENE	1	c	49	95	7	5	-	-	9	9	2500	0	1	54	47	*	0·2	Tr.	0·0
Holyhead	1024·9	-2	NW	2	c	52	85	8	5	-	-	10	10	1500	1	0	53	51	50	0·2	-	0·0
Chester (Sealand)	1025·6	+2	W'S	2	er	47	95	6	5	2	-	9	9+	1500	1	*	53	42	35	Tr.	Tr.	2·4
L'pool (Bidston)	1025·5	0	S'W	2	o	48	95	7	5	-	-	10	10	1500	1	*	51	47	45	-	Tr.	3·5
Manchester	1025·2	0	W	1	f	47	95	2	5	-	-	10	10	<150	1	*	55	45	39	-	Tr.	*
Harrogate	1024·1	0	SW	1	bc	47	95	6	5	8	-	4-6	4-6	4000	1	*	54	47	41	-	-	0·1
Spurn Head	1023·9	0	SSW	1	F	47	95	1	5	-	-	10	10	<150	1	1	52	47	*	0·1	0·2	0·2
Catterick	1024·2	-2	-	0	bc	43	95	7	-	3	-	0	4-6	-	1	*	55	43	36	-	-	0·8
Tynemouth	1023·9	-6	W	2	bc	48	85	6	2	-	-	4-6	4-6	2500	1	2	54	47	43	0·2	-	*
Inchkeith	1023·7	-2	SW	2	3₀	46	95	5	5	-	-	9+	9+	1500	0	1	54	45	43	-	-	1·1
Leuchars	1022·1	-2	WSW	3	b	43	95	6	7	-	-	Tr.	Tr.	4000	1	*	66	43	39	-	-	1·8
Renfrew (Abbotts I.)	1023·3	-4	-	0	F	45	95	1	5	-	-	10	10	<150	1	*	53	43	36	-	-	0·1
Eskdalemuir	1024·7	-2	-	0	f	37	95	2	5	-	-	10	10	<150	1		54	35	32	-	0·1	0·9
Tiree	1023·9	-6	WNW	2	c/r	49	95	7	5	1	-	7-8	10	800	1	1	52	47	42	0·1	0·4	0·6
Stornoway	1021·4	-20	SW	1	bc	45	95	7	1	4	-	1	2·3	2500	1	0	52	45	*	0·3	0·4	0·0
Dalwhinnie	1023·5	-10	-	0	f	42	95	2	4	-	-	10	10	<150	0	*	52	40	37	-	-	1·4
Aberdeen	1021·7	-6	-	0	c	49	95	5	5	7	-	7-8	9	2500	1	1	52	49	46	3	0·2	0·0
Wick	1020·4	-8	NNW	2	c	50	95	8	9	2	-	7-8	10	1500	1	2	50	49	*	1	0·1	*
Lerwick	1017·7	-6	W'N	4	c/d	48	95	7	5	-	-	9+	9+	800	1	*	45	44	*	-	0·5	3·6
Blacksod Point	1025·7	-4	-	0	c	44	95	9	5	-	-	9	9	800	1	0	52	44	*	0·2	2	*
Malin Head	1024·3	-6	W	2	dd	48	95	4	5	-	-	10	10	<150	1	0	51	45	*	0·2	1	0·5
Aldergrove	1025·4	-6	WSW	1	o	46	95	6	5	-	-	10	10	800	1	*	51	45	44	Tr.	-	0·0
Donaghadee	1024·4	✱	WNW	2	c	48	95	7	5	-	-	9	9	1500	1	1	54	46	*	-	0·2	*
Birr Castle	1026·1	-4	WNW	1	o	46	95	7	5	-	-	10	10	2500	1	*	51	46	45	0·2	-	0·0
Valentia Obsy.†	1026·4	-4	-	0	c	47	95	8	5	-	-	10	10	1500	1		53	45	44	-	-	3·0
Roches Point	1026·4	-4	N	2	c	47	95	8	3	-	-	7-8	7-8	2500	0	2	53	46	*	-	-	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations, except Greenwich & Hampstead 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.	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	cmz₀	cm₀	crzcmb	56	44	33	-	Tr.	0·6	*	*	4
Croydon ...	217	ocm f	cm	omd₀bcl	55	39	33	-	Tr.	0·0	*	*	4
Greenwich (Royal Observatory) ...	149	cm	cm₂	cmdbcf	56	40	28	-	Tr.	0·1	82	91	*
City (Bunhill Row) ...	—	*		*	*	*	*	*	*	0·3	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	57	43	37	-		0·3	81	75	*
‡Regents Pk. (Botanic Gardens) ...	168	*	*	*	56	41	30	Tr.		0·4	87	92	*
Camden Square ...	110	c	c	*	56	41	34	Tr.	-	*	*	91	*
Kensington ...	80	bcmod₀	co	*	56	42	33	Tr.	Tr.	0·5	At 18h. 85	79	*
Hampstead Observatory ...	450	om	bc	obc	53	40	29	Tr.	Tr.	0·6		82	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington.			
Max.	Time.	Min.	Time.
Defective Record			

Kew Observatory.			
Max.	Time.	Min.	Time.
0·4	20h. 7th	0·1	2h. 8th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 7th November: Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 8th November: 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 ...	1019·9	-	0	F	46	1021·0	NNE	2	c	41	48	39		-
Brussels ...	1019·9	NNE	3	c/d	48	1023·2	ENE	3	b	37	52		1	
Berlin ...	1015·8	WNW	2	b	43	1020·6	W	1	m	32		30	-	-
Zürich ...						1020·7	WSW	1	o	41		37		-
Rome ...						1014·9	NNE	2	bc	54		52		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 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 ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

✱ NOT AVAILABLE.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 9th November 1933.

No. 26285

OBSERVATIONS at 13h. G.M.T. 8th 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)	1024.5	-6	ENE	2	b	49	65	6	-	-	-	0	0	-
	Croydon	1024.2	-10	SSE	2	b	54	55	6	1	-	-	1	1	4000
	S. Farnborough	1024.2	-12	ENE	2	3o	51	65	6	1	-	-	Tr.	Tr.	4000
	Boscombe Down	1024.2	-12	NNE	2	c	50	75	7	8	-	-	7·8	7·8	1500
	Calshot, S'thmtn	1024.0	-8	NE	1	bc	54	55	7	7	-	-	2·3	2·3	4000
	Dungeness	*	*	NE	2	c	*	*	6	4	-	*	10	10	1500
	Lympne	1024.4	-2	NNE	2	c	47	75	8	5	-	-	9+	9+	4000
2	Shoeburyness	1024.4	-4	N'E	2	bc	52	55	7	4	3	-	1	4·6	4000
	Felixstowe	1024.4	-6	-	0	b	52	55	8	-	3	9	0	1	-
	Gorleston	1024.1	-4	SSE	2	c	52	65	6	5	-	-	7·8	7·8	4000
	Cranwell	1024.2	-8	SW	2	m	50	95	4	5	-	-	10	10	1500
3	Birmingham	1024.1	-6	WNW	1	f	54	85	3	5	-	-	10	10	800
	Upper Heyford	1024.7	-10	-	0	0	48	85	7	5	-	-	10	10	1500
4	Ross-on-Wye	1024.0	-6	SE	1	3o	51	85	5	5	-	-	10	10	2500
5	Portland Bill	1023.7	-4	ENE	3	c	53	75	8	2	-	-	7·8	7·8	2500
	Plymouth	1024.4	-6	ENE	1	3o	52	85	6	5	-	-	10	10	2500
	The Lizard	1024.4	-6	NE	1	3o	53	85	5	5	-	-	10	10	1500
	Scilly (St. Mary's)	1024.9	-2	ENE	1	c	54	95	6	5	-	-	7·8	7·8	2500
	Guernsey	1023.1	-6	NE'E	3	bc	53	65	7	7	-	-	4·6	4·6	2500
6	Pembroke	1023.6	-4	-	0	3o	53	85	6	5	2	-	4·6	10	2500
7	Holyhead	1023.6	-10	WSW	2	c	52	85	6	5	-	-	10	10	800
	Chester (Sealand)	1024.4	-12	NW	1	c/d	53	85	6	5	-	-	9	9	1500
8	L'pool (Bidston)	1024.1	-6	WSW	2	dd	50	95	6	5	-	-	10	10	1500
	Manchester	1024.1	-10	W	1	m	50	95	4	5	-	-	10	10	800
9	Harrogate	1023.2	-6	SW	3	c	49	85	7	5	4	9	2·3	7·8	2500
10	Spurn Head	1023.3	-4	S'W	2	cf-	52	95	4	5	7	-	4·6	7·8	<150
	Catterick	1022.4	-14	SW	2	b	55	75	7	4	4	-	Tr.	Tr.	4000
	Tynemouth	1022.4	-6	W	2	bc	50	85	6	8	-	1	2·3	4·6	2500
11	Inchkeith	1021.8	-8	SW	2	o	50	95	6	5	-	-	10	10	800
12	Leuchars	1020.3	-16	WSW	2	c	51	95	7	5	-	-	9+	9+	2500
	Renfrew (Abbotts I.)	1021.5	-18	SW'S	3	c	52	85	7	5	-	-	9+	9+	1500
	Eskdalemuir	1022.4	-16	SW'S	3	o	47	95	7	5	-	-	10	10	800
13A	Tiree	1021.3	-16	SW'W	3	c	50	85	8	5	-	-	7·8	7·8	1500
13B	Stornoway	1018.5	-20	SW	2	c/d	50	95	8	8	7	-	4·6	7·8	1500
15	Dalwhinnie	1020.7	-20	W	2	c	53	75	8	4	1	3	2·3	9	2500
	Aberdeen	1019.4	-18	NNE	2	bc	54	85	6	-	3	-	0	4·6	-
	Wick	1018.4	-8	WSW	2	c	55	95	8	8	6	-	4·6	7·8	1500
16	Lerwick	1015.8	-8	W	3	c/d	48	95	7	6	7	1	2·3	7·8	1500
17	Blacksod Point	1022.5	-12	S	1	c	49	95	9	5	-	-	9	9	800
18	Malin Head	1021.7	-16	S	2	c	49	85	8	8	-	-	9+	9+	1500
	Aldergrove	1023.4	-14	W	1	o	47	95	8	5	-	-	10	10	450
	Donaghadee	1022.8	-8	W	1	o	48	95	6	5	-	-	10	10	800
19	Birr Castle	1024.5	-12	SW	1	c	47	85	8	5	-	-	9+	9+	2500
20	Valentia Obsy.	1024.6	-18	SSE	2	c	51	85	8	5	-	-	10	10	1500
	Roches Point	1024.9	-6	N	2	c	48	85	8	3	-	-	9	9	2500

OBSERVATIONS at 18h. G.M.T. 8th November

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)	1023.9	0	-	0	bf	41	95	2	-	-	-	0	0	-	1	*
Croydon	1023.8	-2	S	1	m	40	85	4	-	-	-	0	0	-	1	*
S. Farnborough	1023.9	0	-	0	bf	39	95	3	-	-	-	0	0	-	1	*
Boscombe Down	1023.7	0	NE	1	c	44	85	7	5	-	-	7·8	7·8	1500	0	*
Calshot, S'thmtn	1023.4	0	NW	1	bc	45	85	7	7	-	-	2·3	2·3	4000	0	1
Dungeness	*	*	NNE	1	0b	*	*	7	4	-	*	10	10	1500	*	1
Lympne	1024.0	0	NNE	2	c	46	75	7	5	-	-	10	10	4000	1	*
Shoeburyness	1023.9	0	-	0	bc	39	95	8	-	3	-	0	2·3	-	1	*
Felixstowe	1024.1	+2	-	0	c	46	85	8	5	-	-	7·8	7·8	4000	0	0
Gorleston	1023.3	0	-	0	o	48	85	6	5	-	-	10	10	1500	0	1
Cranwell	1023.0	-10	SW	2	f	50	95	3	5	-	-	10	10	2500	1	*
Birmingham	1023.1	-6	SSW	1	m	49	95	4	5	-	-	10	10	800	1	*
Upper Heyford	1023.7	-6	-	0	c	47	85	7	5	-	-	10	10	2500	1	*
Ross-on-Wye	1023.1	-8	WSW	1	m	49	95	4	5	-	-	10	10	1500	1	*
Portland Bill	1023.3	-2	E	3	jp	51	75	7	4	-	-	4·6	4·6	1500	0	3
Plymouth	1023.4	-2	NE	1	m	51	85	4	5	-	-	9+	9+	4000	1	0
The Lizard	1023.5	-2	NE	1	o	51	95	6	5	-	-	10	10	1500	1	2
Scilly (St. Mary's)	1023.4	-2	ENE	1	c	52	95	6	5	-	-	10	10	2500	1	1
Guernsey	1022.5	+2	ESE	2	o	51	65	9	5	-	-	10	10	2500	0	3
Pembroke	1022.6	-6	-	0	c	52	95	7	5	-	-	10	10	1500	0	1
Holyhead	1022.1	-6	SW'W	2	c	51	95	6	5	2	-	7·8	10	1500	1	1
Chester (Sealand)	1023.2	-6	-	0	3o	50	95	6	5	-	-	10	10	2500	1	*
L'pool (Bidston)	1023.0	-2	-	0	dd	49	95	6	5	-	-	10	10	1500	1	*
Manchester	1022.7	-2	W	2	m	49	95	4	5	-	-	10	10	800	1	*
Harrogate	1021.7	-6	SW	2	c	48	95	7	5	-	-	9+	9+	2500	1	*
Spurn Head	1022.2	-2	S'W	2	f	50	95	3	5	-	-	10	10	<150	0	1
Catterick	1021.3	-4	W'S	1	b	47	95	7	4	-	-	Tr.	Tr.	4000	0	*
Tynemouth	1020.7	-8	W	2	bc	50	85	6	5	-	-	2·3	2·3	1500	1	1
Inchkeith	1020.1	-6	SW	3	c	49	95	7	5	2	-	4·6	10	1500	0	2
Leuchars	1018.9	-8	W	3	c	50	85	7	5	-	-	7·8	7·8	4000	1	*
Renfrew (Abbotts I.)	1020.1	-4	SW'W	2	id	49	95	7	5	-	-	10	10	1500	1	*
Eskdalemuir	1021.0	-6	SW'S	3	dd	46	95	6	5	-	-	10	10	450	1	*
Tiree	1018.5	-16	SW	4	c/d	48	95	8	5	1	-	7·8	9+	800	1	1
Stornoway	1015.6	-8	SW	4	c/d	49	85	7	8	6	-	4·6	9	1500	1	1
Dalwhinnie	1019.9	-6	S	1	b	37	95	8	4	-	-	1	1	2500	0	*
Aberdeen	1017.2	-14	N	1	c	49	95	6	5	-	-	7·8	7·8	5700	1	1
Wick	1016.1	-12	SW	2	bc	44	95	8	5	4	-	4·6	4·6	2500	1	2
Lerwick	1014.1	-8	WSW	4	c/pr	48	95	7	8	1	-	4·6	7·8	800	1	*
Blacksod Point	1019.2	-20	S	2	ir	50	95	7	6	-	-	10	10	450	1	3
Malin Head	1019.3	-12	SW	3	c	49	85	8	8	-	-	9+	9+	1500	1	0
Aldergrove	1021.1	-12	S'W	1	dd	46	95	5	5	-	-	10	10	450	1	*
Donaghadee	1021.0	-10	W	1	c	47	95	7	5	-	-	9+	9+	1500	0	0
Birr Castle	1022.2	-12	SW	1	c	47	85	8	5	-	-	9+	9+	2500	1	*
Valentia Obsy.	1021.8	-18	S	2	id	49	95	7	5	-	-	10	10	800	1	2
Roches Point	1022.5	-14	NW	2	c	49	85	8	3	-	-	7·8	7·8	2500	0	2

PAST 24 HOURS. WEATHER.

Stations.	7h.–13h. 8th (37)	13h.–18h. 8th (38)	18h. 8th to 1h. 9th (39)	1h.–7h. 9th (40)
London (Kew)	b3o	b3bfw	bfwof	cfw
Croydon	bmmmy	by3ofm	bmcmo	cmobcmo
S. Farnborough	cbbcb3o	b3ob3f	cfcm	bfxcf
Boscombe Down	cidoc	cbc	bobmo	bif
Calshot, S'thmtn	by	bcy bc	bcbm	bcxm
Dungeness	o	o		c
Lympne	c	c cdo	c	c
Shoeburyness	bcmo	bc	bcmo	cmo
Felixstowe	c, cy	by bc	bcc	f
Gorleston	cmbc	cmoc	o	o3o
Cranwell	domfm	cmofm	of	omcmo
Birmingham	omf	ofm	om	omc
Upper Heyford	doc	c	cbc	bccm
Ross-on-Wye	om	omcom	om	omocmo
Portland Bill	c	cbc	bbc	bcc
Plymouth	cmo	cmm	cmmo	cmob
The Lizard	omoo	o3o	oc	c
Scilly (St. Mary's)	c	c	c	c
Guernsey	cbc	bccv	ov	oc
Pembroke	cmo	cmoc	cproc	circqc
Holyhead	cddc	cmo	idoc	idoc
Chester (Sealand)	romdo	cmo	ocmo	cmo
L'pool (Bidston)	oidm	idoodo	oidoc	cido
Manchester	ofecm	cmodfm	cm	cm
Harrogate	bc	bcc	bo	oc
Spurn Head	dff	ff	ff	ff
Catterick	bcb	b bw	bw	wbcc
Tynemouth	bc	bc	bcom	oc
Inchkeith	c3o3o	oc	oidoif	oidoifc
Leuchars	bwFomm	cmoc	cbcc	cbc
Renfrew (Abbotts I.)	Fcmoc	c.cdo	cidom	circmo
Eskdalemuir	ofeo	oddo	odd	oddc
Tiree	cido	c	cid	oRR
Stornoway	bccido	cido	cido	crr
Dalwhinnie	c	bc	*	bc
Aberdeen	cfmbc	bcc3o	comc	cdobc
Wick	c	cbc	bc	bcc
Lerwick	cido	cpr	cido	c
Blacksod Point	ido	ir	ir	rr
Malin Head	cidm	c	c	c
Aldergrove	odmo	o oim	cidoc	ccr
Donaghadee	como	ociioc	cidoc	c
Birr Castle	oc	c	c	c
Valentia Obsy.	c	cido	idroc	irir
Roches Point	c	c	c	codd

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. ⚡ gale.

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.

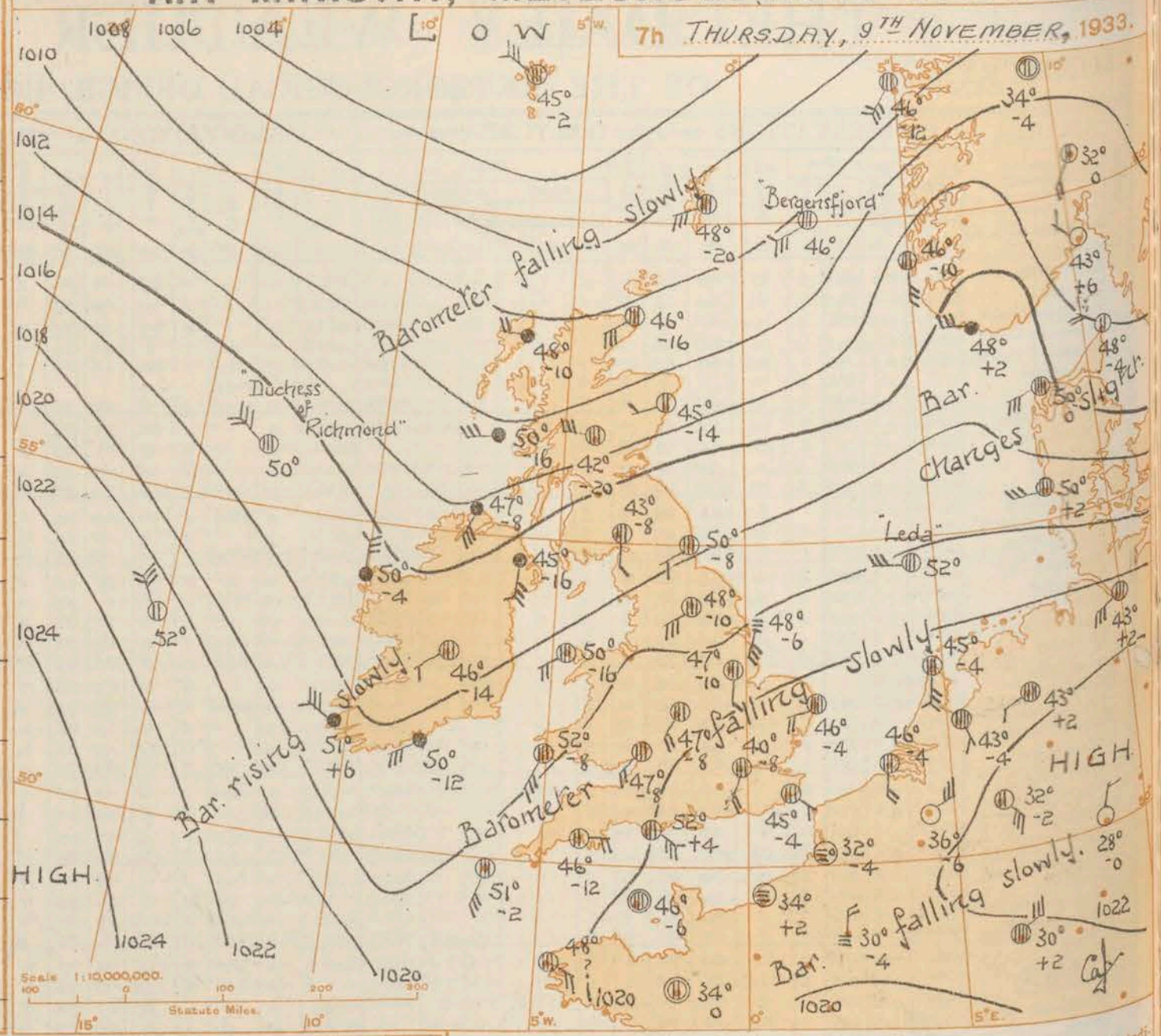
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for 8th November 1933.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 7th to 9h. 8th	Temperature. Max. 9h.—17h. 8th	Rainfall. Night. 17h. 7th to 9h. 8th	Rainfall. Day. 9h.—17h. 8th	Sunshine. Sunrise to Sunset. 8th
1	Tunbridge W.	bc	bcc	34	52	–	–	4.6
	Bournemouth	c	cmf	47	53	–	–	3.5
	Ventnor ...	b3b	b3	45	53	–	–	8.1
	Southsea ...	b	bbc	45	54	–	–	6.9
	Bognor Regis	b	bbc	43	53	–	–	8.0
	Littlehampton	bbc	bc	41	55	–	–	7.8
	Worthing ...	b	bbc	42	54	–	–	7.1
	Brighton ...	bcb	bc	42	53	trace	–	7.3
	Eastbourne†	co	oc	41	51	–	–	0.9
	Hastings† ...	cbcc	co	42	49	trace	–	0.3
	Folkestone ...	o	o	44	49	0.3	–	0.0
	Dover... ...	o	ocom	45	51	0.2	–	0.0
	Deal	o	o	45	51	–	–	0.0
	Ramsgate ...	co	o	46	50	–	–	0.0
	Margate ...	c	c	48	60	–	–	0.0
2	Southend ...	b	b	40	55	0.2	–	7.1
	Maldon ...	mb	b	39	55	–	–	7.8
	Clacton-on-Sea	cbc	bc	42	53	–	–	7.5
	Dovercourt ...	bv	bcv	41	55	–	–	6.8
	Lowestoft ...	b	bbcc	41	55	–	–	5.0
	Skegness ...	om	om	45	48	trace	trace	0.0
	Mablethorpe	om	om	46	49	2	–	0.0
	Cleethorpes ...	o	o	46	57	–	–	1.1
3	Leamington S.	ome	ome	39	51	–	–	0.0
4	Cheltenham†	ofe	ofe	46	51	trace	trace	0.0
5	Bath	mc	cm	49	52	–	–	0.0
	Weymouth ...	cb	b	49	55	–	–	4.4
	Jersey ...	rcbc	c	50	54	1	–	3.3
	Torquay ...	om	cbcom	51	54	–	–	1.1
	Penzance ...	mom	mom	51	54	trace	–	0.0
	St. Ives ...	o	o	51	54	–	–	0.0
	Bude	oc	c	50	54	–	–	0.0
	Ilfracombe ...	o	o	51	55	–	–	0.0
6	Aberystwyth	c	bcz	44	53	–	–	1.0
7	Llandudno ...	od	odm	46	51	trace	trace	0.0
	Colwyn Bay...	o	odo	48	52	–	trace	0.0
	Rhyl	om	om	46	51	–	–	0.0
8	Wallasey ...	odr	oid	47	51	–	0.3	0.0
	Southport‖ ...	od	odo	45	50	–	0.5	0.0
	Blackpool ...	om	odo	42	51	–	0.2	0.0
	Morecambe ...	c	cdo	42	49	trace	0.3	0.0
9	Ilkley... ...	c	c	45	49	trace	–	0.0
10	Berwick-on-T.	bc	bcc	43	51	–	–	7.3
11	Dunbar ...	om	bc	42	53	–	–	4.1
12	Troon... ...	rco	o	49	52	trace	–	0.2
	Douglas ...	oco	oco	38	51	0.3	–	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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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. 9th. Nov. 1933.

Districts.	Forecasts
1. S.E. England 2. E. England... 3. E. Midlands	Wind south or southwest, light or moderate; cloudy, mist; perhaps occasional slight rain later; moderate temperature, or rather mild.
4. W. Midlands 5. S.W. England 6. South Wales 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	Wind southwest, veering, moderate; occasional rain, brighter later; moderate temperature or rather mild.
13. A. W Scotld. B. N.W. Scotland. 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind west or northwest, moderate, fresh locally; cloudy, bright intervals, showers; becoming cooler.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind northwest or west, moderate, fresh locally; cloudy, bright intervals, local showers; rather mild.

GENERAL INFERENCE.

A shallow trough of low pressure from a depression between Iceland and Norway is moving eastwards from Western Scotland and Ireland. Occasional rain, or showers, will occur in most districts, but weather will be dry during most of today in East and Southeast England.

FURTHER OUTLOOK.

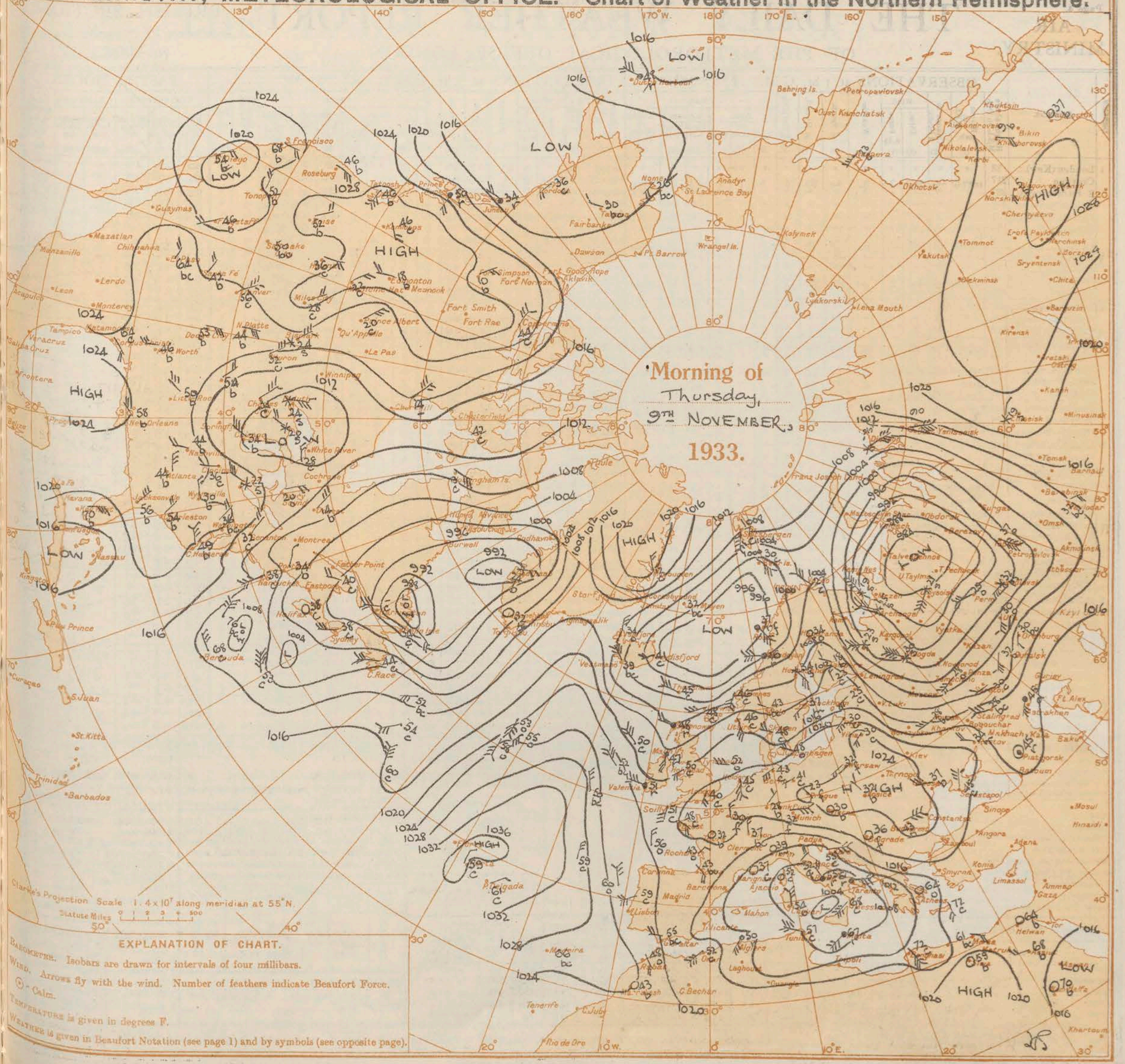
Rather unsettled; temporarily cooler in North Scotland.

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.



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 9th November 1933.

No. 26285

OBSERVATIONS at 1 hr. G.M.T. 9th November

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	1022.6	-10	S'W	3	3o	40	85	6	5	7	-	4-6	9	5700
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1022.9	-6	ESE	1	c	45	75	7	5	-	-	10	10	4000
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1022.2	-8	SW	2	o	47	85	7	5	-	-	10	10	2500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1021.8	-10	E	3	bc	47	85	7	4	-	-	4-6	4-6	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1021.9	-6	E'N	2	c	51	85	8	4	-	-	9+	9+	2500
	Scilly (St. Mary's)	163	1021.5	-12	SSE	2	c	51	85	6	5	-	-	10	10	4000
	Guernsey	175	1021.8	-8	ESE	3	o	49	65	9	5	-	-	10	10	4000
6	Pembroke	142	1020.2	-8	-	0	c	51	95	7	5	2	-	7-8	10	1500
7	Holyhead	26	1019.8	-12	SW'W	4	c	49	85	7	5	-	-	10	10	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1020.5	-4	SW	2	of	49	95	3	5	-	-	10	10	<150
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	100	1018.7	-12	WSW	2	o	47	95	6	6	-	-	10	10	1500
11	Inchkeith	190	1017.0	-16	SW	1	id.	47	95	6	5	-	-	10	10	800
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts'l)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1010.4	-44	SSW	5	id.	50	95	6	8	7	-	4-6	10	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1012.7	-16	SW	3	bc	44	95	8	5	4	-	4-6	4-6	2500
16	Lerwick	54	1011.5	-12	WSW	5	c	49	75	7	5	-	-	9+	9+	1500
17	Blacksod Point	18	1015.4	-20	S	3	rr	52	95	7	6	-	-	10	10	450
18	Malin Head	52	1014.9	-18	S	3	c	47	95	7	8	-	-	9+	9+	1500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1017.8	-20	SW	2	r.r.	50	95	6	3	-	-	10	10	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 9th 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)	1021.2	-6	-	0	cf	37	95	2	5	-	-	9	9	2500	1	*
	Croydon	1021.3	-8	SSW	2	3o	40	95	6	5	-	-	9+	9+	5700	1	*
	S. Farnborough	1021.0	-4	E'S	2	m	35	95	4	5	2	-	9+	10	1500	1	*
	Boscombe Down	1020.9	-8	-	0	bcfg	35	95	6	5	-	-	2.3	2.3	2500	0	*
	Calshot (S'thmtn)	1021.0	-4	NW'W	2	m	37	95	4	5	-	8	4.6	7.8	4000	0	1
	Dungeness	*	*	SE	2	c	*	*	6	4	-	*	10	10	1500	*	2
	Lympne	1021.6	-4	ESE	1	c	45	75	7	5	-	-	10	10	4000	1	*
2	Shoeburyness	1021.5	-6	-	0	c	43	85	5	5	-	-	10	10	1500	1	*
	Felixstowe	1021.5	-2	-	0	of	45	85	3	5	-	-	10	10	450	0	0
	Gorleston	1020.5	-4	WSW	2	o	46	85	6	5	-	-	10	10	2500	0	1
	Cranwell	1019.6	-12	S'E	1	o	47	95	5	5	-	-	10	10	2500	1	*
3	Birmingham	1019.5	-8	SSW	2	c	47	95	6	5	-	-	9+	9+	4000	1	*
	Upper Heyford	1021.0	-10	-	0	m	39	95	4	5	3	7	4.6	10	4000	1	*
4	Ross-on-Wye	1019.4	-8	SW'S	2	3o	47	85	5	5	-	-	9+	9+	4000	1	*
5	Portland Bill	1019.8	+4	ESE	4	c	52	85	7	5	-	-	10	10	2500	0	3
	Plymouth	1019.6	-12	E	2	bc	46	85	8	5	-	1	2.3	2.3	4000	1	0
	The Lizard	1019.6	-8	ENE	2	c	51	75	8	4	1	-	7.8	10	2500	1	1
	Scilly (St. Mary's)	1019.2	-2	S'W	3	c	51	85	8	5	-	-	10	10	4000	1	2
	Guernsey	1020.8	-6	-	0	c	46	75	8	8	-	-	9	9	2500	0	3
6	Pembroke	1017.6	-8	SSW	3	c/f.	52	85	7	5	2	-	4.6	10	1500	1	2
7	Holyhead	1017.3	-16	SW'W	2	c	50	85	7	5	2	-	7.8	9+	2500	1	1
	Chester (Sealand)	1018.4	-12	S	2	3o	49	85	6	5	-	-	7.8	7.8	2500	1	*
8	L'pool (Bidston)	1018.3	-12	SE'E	2	c/d.	48	95	7	5	-	-	9	9	2500	0	*
	Manchester	1018.2	-12	-	0	m	48	95	4	5	-	-	10	10	800	1	*
9	Harrogate	1017.5	-10	SW	3	c	48	95	7	5	2	-	9+	10	2500	1	*
10	Spurn Head	1018.1	-6	S'W	3	f	48	95	3	5	-	-	10	10	<150	0	2
	Catterick	1016.6	-8	SSW	3	c	48	85	7	7	-	-	9+	9+	1500	1	*
	Tynemouth	1015.8	-8	SW	1	c	50	95	6	6	-	-	9	9	1500	1	1
11	Inchkeith	1014.1	-8	SW	2	c	46	85	8	5	7	-	4.6	10	2500	0	1
	Leuchars	1014.0	-10	SW	3	bc	45	85	7	5	-	-	2.3	2.3	2500	1	*
12	Renfrew (Abbotts'l)	1013.6	-20	S	3	c/f.	46	85	6	5	-	-	10	10	800	1	*
	Eskdalemuir	1015.6	-8	S	1	c	43	85	6	5	7	-	9+	10	800	1	*
13A	Tiree	1010.5	-16	W'S	3	RR	50	95	6	6	-	-	10	10	1500	1	1
13B	Stornoway	1008.2	-10	W	2	rr	48	95	7	6	2	-	9	10	1500	1	1
15	Dalwhinnie	1012.5	-20	W	3	c	42	95	7	4	4	-	4.6	10	800	0	*
	Aberdeen	1011.6	-14	SW	1	bc	45	95	7	5	7	1	2.3	4.6	2500	1	1
	Wick	1008.4	-16	SW	3	c	46	95	8	5	7	-	4.6	7.8	2500	1	2
16	Lerwick	1007.7	-20	WSW	3	c	48	85	8	5	7	-	4.6	7.8	1500	0	*
17	Blacksod Point	1014.8	-4	N	4	rr	50	95	7	6	-	-	10	10	450	1	3
18	Malin Head	1011.6	-8	S'W	3	rr	47	95	7	8	-	-	10	10	800	1	1
	Aldergrove	1014.8	-16	S	4	if.	45	85	7	5	2	-	7.8	10	1500	1	*
	Donaghadee	1015.1	-10	W	2	c	45	95	7	5	-	-	9	9	1500	0	1
19	Birr Castle	1015.1	-14	SW	1	c	46	95	7	5	-	-	9+	9+	2500	1	*
20	Valentia Obsy.†	1016.5	+6	WNW	4	if.	51	85	6	6	-	-	10	10	1500	1	-
	Roches Point	1016.1	-12	SW	3	dd	50	95	6	5	-	-	10	10	800	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 9th Hrs. (36)
1	London (Kew)	50	33	28	-	-	5.9
	Croydon	54	37	32	-	-	7.0
	S. Farnborough	52	30	24	-	-	5.9
	Boscombe Down	51	32	26	Tr.	-	1.3
	Calshot (S'thmtn)	55	35	31	-	Tr	8.3
	Dungeness	50	45	*	-	-	*
	Lympne	47	43	41	Tr.	-	0.0
2	Shoeburyness	53	36	34	-	-	5.5
	Felixstowe	53	42	39	-	-	6.6
	Gorleston	53	45	43	-	-	4.6
	Cranwell	51	47	45	Tr.	-	0.0
3	Birmingham	52	46	45	-	-	0.0
	Upper Heyford	49	39	29	Tr.	-	*
4	Ross-on-Wye	51	46	44	-	-	0.0
5	Portland Bill	54	44	*	-	-	*
	Plymouth	53	46	42	-	-	0.0
	The Lizard	54	49	*	-	-	*
	Scilly (St. Mary's)	55	50	*	-	-	0.0
	Guernsey	54	46	40	-	-	4.3
6	Pembroke	53	51	*	-	0.2	0.3
7	Holyhead	52	49	48	0.2	0.2	0.0
	Chester (Sealand)	53	49	46	0.2	-	0.0
8	L'pool (Bidston)	50	48	46	0.2	Tr	0.0
	Manchester	51	48	46	Tr.	-	*
9	Harrogate	51	46	40	-	-	2.1
10	Spurn Head	52	48	*	0.2	-	1.5
	Catterick	55	40	36	-	-	5.6
	Tynemouth	51	45	40	-	-	*
11	Inchkeith	50	45	43	-	0.1	0.0
	Leuchars	52	45	42	-	-	0.0
12	Renfrew (Abbotts'l)	53	45	44	Tr.	0.4	0.1
	Eskdalemuir	47	42	41	0.1	0.6	0.0
13A	Tiree	50	48	46	0.2	9	0.4
13B	Stornoway	51	48	*	Tr.	3	1.8
15	Dalwhinnie	53	37	30	-	-	2.6
	Aberdeen	57	44	40	-	0.2	2.6
	Wick	55	40	*	-	-	*
16	Lerwick	49	47	*	0.5	Tr	0.2
17	Blacksod Point	50	49	*	0.2	14	*
18	Malin Head	51	46	*	2	2	0.7
	Aldergrove	47	43	42	Tr.	Tr	0.0
	Donaghadee	49	43	*	0.1	0.2	*
19	Birr Castle	48	45	42	-	-	0.0
20	Valentia Obsy.†	51	49	46	Tr.	8	0.0
	Roches Point	49	48	*	-	0.2	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich & Hampstead 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	b3o	b3bfw	bfwdzfw	50	33	28	-	-	5.9	*	*	2
CROYDON	217	bmmmy	by3fm	bmcbcm	54	37	32	-	-	7.0	*	*	5
GREENWICH (Royal Observatory)	149	b	bm	bxfcbacm	50	37	25	-	Tr	3.5	64	80	4
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*	1.5	*	*	*
WESTMINSTER (St. James' Park)	27	*	*	*	50	37	32	—		1.1	71	75	*
‡REGENTS PK. (Botanic Gardens)	168	*	*	*	50	37	31	-		3.1	68	73	*
CAMDEN SQUARE	110	bbc	bco	*	51	39	33	-	-	*	*	82	*
KENSINGTON	80	b3	bbc3	*	54	37	29	-	-	1.5	At 18h. 75	88	*
HAMPSTEAD OBSERVATORY	450	b	bm	of	48	40	27	-	-	6.7	*	77	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.
2.3	22h. 8th	0.3	13-14h 8th, 3-4h 9th

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
3.2	23h. 8th	0.4	11h 8th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 9th November Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 9th November 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	1021.9	NE	3	b	45	1020.6	N	2	if	30	52	30	-	-
BRUSSELS	1023.4	ENE	2	c	45	1021.8	ENE	3	b	36	50	34	-	-
BERLIN	1021.3	W	1	3o	36	1022.6	WSW	1	m	41	45	39	-	-
ZÜRICH	1021.1	ENE	3	c	41	1018.3	NNE	2	o	37	46	36	-	-
ROME	1012.9			bc	55	1006.5	NNW	2	rr	55	70	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 "	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. ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

CORRECTED COPY.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 10th November 1933.

No. 26.286

OBSERVATIONS at 13h. G.M.T. 9th 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)	Amount Low 0-10 (12)	Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)	1018.8	-20	S'W	2	c	49	65	6	5	-	-	9+	9+	4000
	Croydon	1018.1	-26	S	3	c	49	75	6	5	3	-	7-8	9+	4000
	S. Farnborough	1018.6	-18	SSE	2	3o	48	75	6	5	-	-	10	10	4000
	Boscombe Down	1018.1	-22	S	3	c	53	55	7	5	-	-	7-8	7-8	2500
	Calshot, S'thmtn	1018.7	-18	NE	1	cf	49	75	3	5	-	-	10	10	4000
	Dungeness	*	*	SE	1	c	*	*	7	4	6	*	7-8	9	1500
	Lympne	1019.6	-18	S	1	c	47	65	8	5	-	-	10	10	4000
2	Shoeburyness	1018.9	-16	SW	1	c	48	75	6	5	-	-	10	10	1500
	Felixstowe	1019.3	-18	W	1	c/f	48	75	6	5	-	-	10	10	2500
	Gorleston	1018.2	-16	SWW	3	c	50	65	6	5	-	-	9+	9+	2500
	Cranwell	1017.4	-16	SSW	2	c	47	85	6	5	2	-	9+	10	4000
3	Birmingham	1016.9	-20	S	3	c	49	65	6	5	-	-	9	9	4000
	Upper Heyford	1018.3	-18	SSW	2	3o	48	75	6	5	-	-	9+	9+	4000
4	Ross-on-Wye	1016.8	-14	SSW	2	c	51	65	7	5	3	-	1	9+	5700
5	Portland Bill	1017.8	-16	WSW	3	c	52	75	7	5	-	-	10	10	1500
	Plymouth	1018.0	-16	SSW	1	c	54	75	8	5	-	-	9+	9+	2500
	The Lizard	1018.0	-14	SW	3	c	52	75	8	8	-	-	10	10	2500
	Scilly (St. Mary's)	1018.0	-10	SW'S	3	c	52	96	7	8	7	-	4-6	9	2500
	Guernsey	1018.8	-14	-	0	b	52	55	7	-	-	-	0	0	-
6	Pembroke	1017.0	-12	SW	3	c	53	85	7	5	2	-	4-6	7-8	2500
7	Holyhead	1014.6	-14	SW'S	4	u	54	75	7	6	-	-	10	10	2500
	Chester (Sealand)	1015.8	-18	S'E	2	3o	52	75	6	5	-	-	9	9	2500
8	L'pool (Bidston)	1015.4	-16	SW	4	3o	51	75	6	5	3	-	9	9	2500
	Manchester	1015.5	-22	SW	4	3o	51	85	5	5	-	-	10	10	1500
9	Harrogate	1014.6	-14	SSW	3	c	52	75	5	5	8	-	4-6	7-8	2500
10	Spurn Head	1016.2	-8	SSW	3	m	49	95	4	5	2	-	4-6	10	<150
	Catterick	1013.6	-24	SSW	3	c	52	75	7	9	6	-	9	9+	1500
	Tynemouth	1012.6	-20	SW	3	bc	53	75	6	8	-	-	4-6	4-6	2500
11	Inchkeith	1010.7	-16	SW	4	iro	49	85	8	8	7	-	4-6	9+	2500
	Leuchars	1011.0	-22	SW	3	roro	48	85	7	5	2	-	7-8	9+	2500
12	Renfrew (Abbotts I.)	1010.0	-26	SSW	4	roro	49	95	6	6	2	-	2-3	10	800
	Eskdalemuir	1011.5	-32	SSW	4	c	47	85	7	5	-	-	10	10	800
13A	Tiree	1010.4	-6	W'N	2	c/r	48	95	8	8	7	-	4-6	9+	1500
13B	Stornoway	1007.9	-6	W	2	c	48	85	8	8	6	-	4-6	9	1500
15	Dalwhinnie	1010.0	-12	W	1	ir	44	95	6	4	-	-	10	10	800
	Aberdeen	1009.0	-16	SW'S	2	rr	47	95	5	6	-	-	10	10	2500
	Wick	1006.5	-12	SW	2	c/r	47	95	7	6	2	-	7-8	10	1500
16	Lerwick	1004.4	-20	SW	4	dodo	49	95	6	9	2	-	9	10	800
17	Blacksod Point	1015.5	+2	WNW	4	bc	52	75	9	3	-	-	4-6	4-6	1500
18	Malin Head	1011.6	-2	W'N	3	c	51	75	7	3	8	3	4-6	9+	1500
	Aldergrove	1012.7	-14	WSW	2	roro	48	95	7	6	2	-	7-8	10	800
	Donaghadee	1012.1	-12	W	2	roro	48	95	7	6	-	-	10	10	800
19	Birr Castle	1015.3	+10	NNW	1	roro	49	95	7	6	2	-	7-8	9+	2500
20	Valentia Obsy.	1018.2	-2	NW	4	bc	63	65	8	2	-	-	2-3	2-3	1500
	Roches Point	1015.6	-4	N	4	bc	53	85	8	3	-	-	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 9th November

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)	1015.8	-16	SSE	1	b	42	85	5	-	-	-	0	0	-	1	*
Croydon	1016.0	-8	S	3	3o	44	75	5	4	-	-	4-6	4-6	4000	1	*
S. Farnborough	1016.0	-6	S'E [S'W struck out]	1	m	42	85	4	5	-	-	Tr.	Tr.	4000	1	*
Boscombe Down	1015.5	-10	SSE	2	c	43	95	5	5	-	-	9	9	2500	0	*
Calshot, S'thmtn	1015.9	-10	SE'E	3	b	49	86	7	5	7	-	2-3	2-3	4000	0	2
Dungeness	*	*	NE	1	c	*	*	7	8	-	*	9+	9+	1500	*	0
Lympne	1016.6	-10	-	0	c	43	75	6	5	-	-	9+	9+	4000	1	*
Shoeburyness	1016.5	-10	S'W	1	c	45	95	7	4	-	-	9+	9+	4000	0	*
Felixstowe	1015.9	-18	S	3	3o	47	85	5	5	-	-	10	10	2500	0	1
Gorleston	1015.4	-14	S'W	2	o	46	85	6	5	-	-	10	10	2500	0	2
Cranwell	1014.1	-16	S'E	2	c	46	85	6	5	-	-	10	10	4000	1	*
Birmingham	1013.9	-14	S	2	c	48	75	7	5	7	-	4-6	9+	4000	1	*
Upper Heyford	1015.4	-10	S	2	3o	46	75	6	5	-	-	9+	9+	4000	1	*
Ross-on-Wye	1014.1	-10	SSW	1	c	48	75	6	5	-	-	10	10	4000	1	*
Portland Bill	1016.1	-16	WSW	3	bc	53	75	7	5	-	-	4-6	4-6	2500	0	3
Plymouth	1015.5	-10	WSW	3	c/r	53	85	7	5	2	-	9+	10	1500	1	2
The Lizard	1016.1	-6	SW	3	c	52	95	8	8	-	-	10	10	2500	1	2
Scilly (St. Mary's)	1016.1	-6	NNW	3	pro	51	95	7	8	2	-	7-8	9+	2500	1	2
Guernsey	1016.9	-8	-	0	c	44	85	5 [8 struck out]	8	-	-	7-8	7-8	4000	0	1
Pembroke	1013.5	-14	SSW	3	c	51	85	7	5	5	-	7-8	7-8	1500	1	2
Holyhead	1012.2	-6	NW'N	5	c/r	51	85	8	5	-	-	9+	9+	1500	1	2
Chester (Sealand)	1012.0	-16	S'E	3	c	50	75	6	5	3	-	4-6	7-8	2500	1	*
L'pool (Bidston)	1011.7	-16	S'W	3	c	50	85	7	5	-	-	9+	9+	2500	0	
Manchester	1011.8	-20	SSW	3	3o	49	85	5	5	-	-	10	10	4000	1	*
Harrogate	1011.4	-10	SSW	3	b	48	85	5	-	-	-	0	0	-	1	*
Spurn Head	1012.8	-6	SSW	4	c	47	85	6	5	2	-	4-6	10	1500	0	3
Catterick	1010.1	-16	S'W	4	bc	49	85	6	5	-	-	4-6	4-6	1500	0	*
Tynemouth	1009.3	-14	SW	3	c	51	85	6	6	-	-	7-8	7-8	1500	1	
Inchkeith	1008.7	-8	WSW	3	iro	47	96	6	5	2	-	7-8	10	1500	0	2
Leuchars	1008.0	-8	WSW	3	iro	47	95	7	5	-	-	9+	9+	5700	1	*
Renfrew (Abbotts I.)	1008.9	-4	W	3	c	45	85	7	8	-	-	7-8	7-8	2500	1	*
Eskdalemuir	1009.3	-4	WNW	2	roro	43	85	6	5	1	-	9	10	800	1	*
Tiree	1008.5	-4	W'N	4	bc	45	85	8	8	-	8	4-6	4-6	1500	1	1
Stornoway	1005.2	-4	WSW	2	c	44	95	7	8	5	-	7-8	9+	800	1	1
Dalwhinnie	1007.6	-4	N	2	ir	42	85	6	3	4	-	4-6	10	800	1	*
Aberdeen	1006.5	-10	SW'S	2	roro	46	95	4	6	-	-	10	10	2500	1	1
Wick	1004.7	-10	SW	2	c	44	95	8	8	2	-	7-8	9+	1500	1	2
Lerwick	1003.0	-8	WNW	2	c	46	95	7	8	-	-	9+	9+	1500	1	*
Blacksod Point	1014.8	-4	WNW	4	c	48	85	8	9	-	-	7-8	7-8	800	1	3
Malin Head	1010.3	-2	W	4	c/pr	48	85	7	3	-	-	7-8	7-8	1500	1	1
Aldergrove	1012.1	-2	W'S	2	b/pro	44	85	8	8	-	-	1	1	1500	1	*
Donaghadee	1011.1	-4	W	1	c	45	95 [66 struck out]	7	5	-	-	7-8	7-8	1500	1	1
Birr Castle	1015.4	0	NNW	1	bc	44	85	8	4	4	-	1	4-6	2500	1	*
Valentia Obsy.	1018.0	+2	NWW	4	bc/pro	50	75	8	8	-	-	2-3	2-3	1500	1	3
Roches Point	1015.9	+6	N [WSW struck out]	3 [4 struck out]	bc	49	85	8	3	-	-	4-6	4-6	2500	0	3

PAST 24 HOURS.

Stations	Weather 7h.—13h. 9th (37)	Weather 13h.—18h. 9th (38)	Weather 18h. 9th to 1h. 10th (39)	Weather 1h.—7h. 10th (40)
London (Kew)	cfc3o	c3obmo	cm	crcm
Croydon	cmo	cbcmo	bmocmo	cmorrm
S. Farnborough	cmc3o	c3ob3	bmombcc	corrbc
Boscombe Down	bmoc	bmocmo	coirmo	oirobc
Calshot, S'thmtn	bmbcmcf	cmobcb	bbcc	crorocbc
Dungeness	bc	bc	*	r
Lympne	o	c	cb	b,crroro
Shoeburyness	cmo	cmo	cb	cmoorrmo
Felixstowe	ffc3o	c3o	c3obcb	bbccorcdom
Gorleston	oc3m	c3o3o	o3o3o	ororo
Cranwell	cmo	cmo	cmopr	prbcmf
Birmingham	cbc	c	ciro	cbc
Upper Heyford	cbcc	cmo	ccrr	crrbc
Ross-on-Wye	cbcc	c	cdodoorc	cbb
Portland Bill	c	c	oprc	cprbc
Plymouth	b,cmoc	ciroc	cprb	b,cprbv
The Lizard	c	c	cprbc	bccpr
Scilly (St. Mary's)	cidoc	cpo	opobc	bc
Guernsey	cbcb	bbcc	odiro	oRir
Pembroke	cmidogc	cidoc	c	cbcq
Holyhead	cddido	PR R	cbc	bc
Chester (Sealand)	bccmo	cbc3o	rpR	bccPR
L'pool (Bidston)	ccmo	c	rrcpr	ccpo
Manchester	cbmcbm	docbc	croprm	bcmx
Harrogate	c	cb	bodo	cbx
Spurn Head	fcff	fc	orr	orrc
Catterick	c3oc	cmo	ocdor	bcbw
Tynemouth	cbc	bcc	coirobc	bc
Inchkeith	ciro	ciro	cbc	bccw
Leuchars	bccro	ciro	cbcbw	bccw
Renfrew (Abbotts I.)	cdcroro	crroroc	bcb	b,ciro
Eskdalemuir	c	cdocroro	crorobbc	bc
Tiree	oiRc	cirpR	bcPR	bcPR
Stornoway	cpro	cpro	cpro	ciroq
Dalwhinnie	ir	ir	*	ir
Aberdeen	bcorr	orrm	orobc	bc
Wick	crr	ciroc	cror	rorbc
Lerwick	cddo	cddrrc	cbc	bcc
Blacksod Point	prbc	prcq	PRcq	PRcq
Malin Head	crr	cpro	bccpr	cpr
Aldergrove	crrorm	crobcpr	b,cpo	cpocc
Donaghadee	ororo	rorooc	bcc	cpro
Birr Castle	cro orr	robc	bc	bcbx
Valentia Obsy.	cirocbc	bccpro bc	bccprobc	bc
Roches Point	oddbc	bc	bcb	bbcpobc

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. gale.

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.

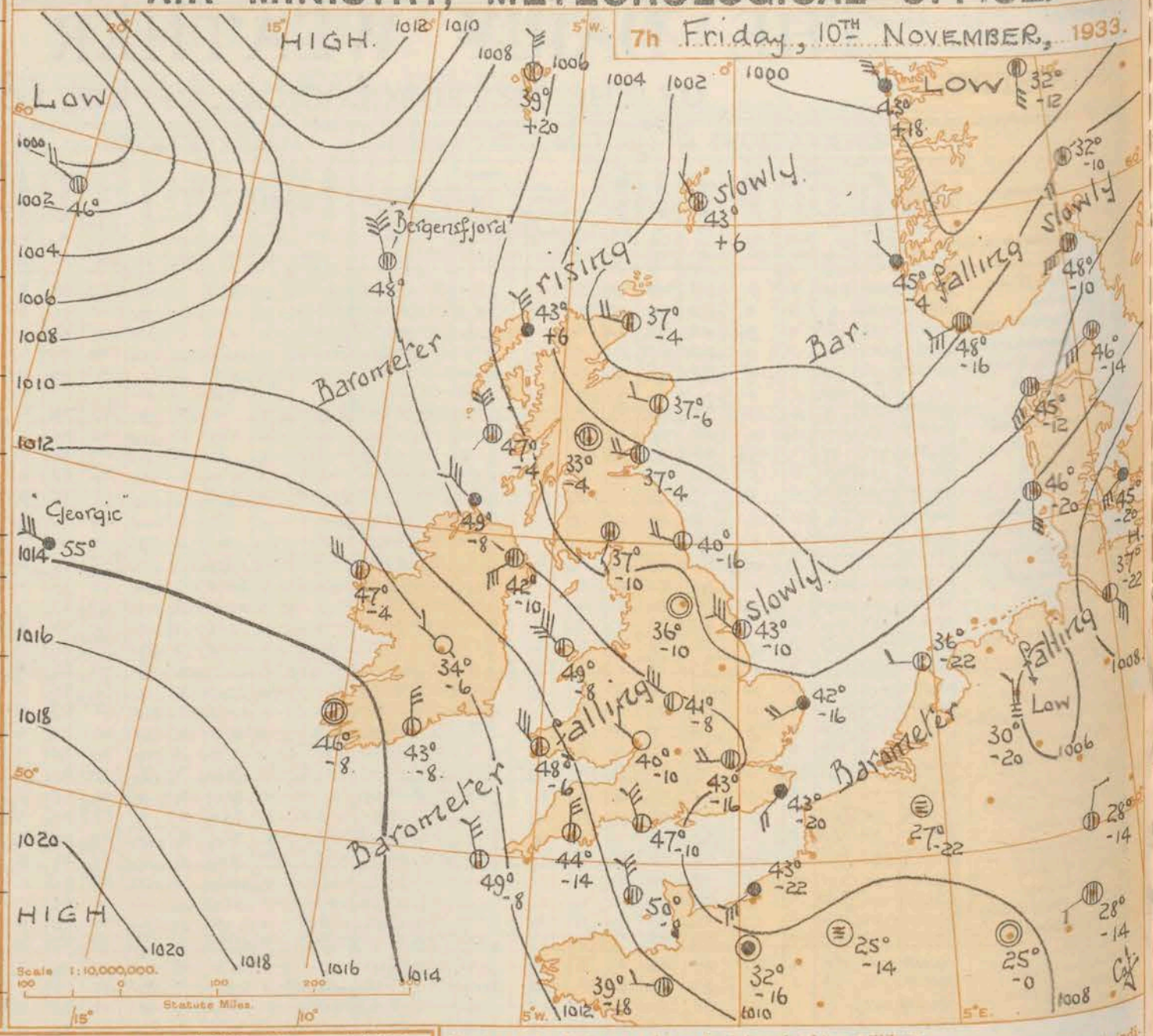
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for 9th November 1933.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 8th to 9h. 9th	Temperature. Max. 9h.—17h. 9th	Rainfall. Night. 17h. 8th to 9h. 9th	Rainfall. Day. 9h.—17h. 9th	Sunshine. Sunrise to Sunset. 9th
1	Tunbridge W.	oco	o	32	48	-	-	0·0
	Bournemouth	mc	mf	34	51	-	-	0·2
	Ventnor ...	oz	oz	45	50	-	-	0·0
	Southsea ...	bcmc	cm	36	49	-	-	0·6
	Bognor Regis	co	o	39	49	-	-	0·0
	Littlehampton	bcco	o	35	49	-	-	0·0
	Worthing ...	o	o	38	49	-	-	0·0
	Brighton ...	cbc	c	40	49	-	-	0·0
	Eastbourne†	o	oco	44	49	-	-	0·1
	Hastings† ...	oc	co	45	49	-	-	0·0
	Folkestone ...	o	ocbcc	45	49	-	-	0·5
	Dover... ...	oc	cbcco	49	49	-	-	0·4
	Deal	o	o	43	48	-	-	0·0
	Ramsgate ...	c	c	45	49	-	-	0·1
	Margate ...	c	c	45	48	-	-	0·0
2	Southend ...	om	om	40	49	-	-	0·0
	Maldon ...	mo	o	36	50	-	-	0·0
	Clacton-on-Sea	odmc	co	43	48	-	-	0·0
	Dovercourt ...	ocm	ocm	44	49	-	-	0·0
	Lowestoft ...	c	c	44	50	-	-	0·0
	Skegness ...	om	om	46	48	trace	trace	0·0
	Mablethorpe	om	o	46	47	-	-	0·0
	Cleethorpes ...	o	ocu	47	50	-	-	0·0
3	Leamington S.	oc	co	46	52	0·2	-	0·9
4	Cheltenham†	cumbc	bccom	40	52	trace	-	2·9
5	Bath	b	bbcc	37	54	-	-	7·4
	Weymouth ...	c	c	37	52	-	-	0·0
	Jersey ...	bf	bz	38	53	-	-	7·3
	Torquay ...	bumbbc	oz	38	55	-	-	1·1
	Penzance ...	c	bcdo	50	55	-	0·6	0·6
	St. Ives ...	o	c	50	54	-	-	0·2
	Bude	occ	c	39	53	-	-	0·2
	Ilfracombe ...	bcco	cbcc	48	52	-	-	1·6
6	Aberystwyth	c	bcc	46	52	-	-	0·2
7	Llandudno ...	c	cbcr	46	54	0·1	0·1	0·9
	Colwyn Bay...	cbc	bcdbp	48	54	-	trace	2·4
	Rhyl	cm	c	47	53	-	-	0·2
8	Wallasey ...	c	c	48	54	-	-	0·5
	Southport‖ ...	oco	po	48	53	0·5	0·2	0·2
	Blackpool ...	o	bd	48	51	1	1	0·0
	Morecambe ...	ddodd	ddpdd	44	50	2	2	0·0
9	Ilkley... ...	c	c	46	53	trace	-	1·2
10	Berwick-on-T.	bcc	cro	45	51	-	0·3	1·3
11	Dunbar ...	bc	bcr	44	52	-	trace	1·8
12	Troon... ...	rcoc	rdo	47	50	trace	7	0·0
	Douglas ...	cbcw	cbcwr	45	53	-	2	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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :— Clear sky. Sky less than 1/10 clouded. Sky 1/10 to 5/10 clouded. Sky 5/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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 Nov, 1933.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Wind northwest, light or moderate, backing; bright intervals, local showers; cloudier tomorrow; perhaps local fog in morning; moderate day temperature, local frost at night.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind northwest, light or moderate; backing and freshening; variable cloud, local showers today, probably more general rain tonight or tomorrow; moderate temperature.
9. N Midlands 10. N.E England 11. S.E. Scotland	Wind northwest, light or moderate, variable later; variable cloud and local showers today, probably more general rain tomorrow; moderate day temperature, perhaps local frost tonight.
12. S.W. Scotland & Isle of Man 13. A. W Scotld. B. N.W. Scotland.	Wind becoming westerly or variable. light to fresh; cloudy, showers or occasional rain; moderate temperature
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind light or moderate northerly or variable; bright intervals today; rain or sleet showers, perhaps more general rain later; rather cold.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind westerly , light to fresh; cloud increasing; rain or drizzle later; becoming milder.

GENERAL INFERENCE.

Pressure is high southwest of the British Isles and over East Greenland. A shallow trough of low pressure over the North Sea is moving east and a depression to northwest of Ireland will move east or southeast. Bright periods and showers will occur at first in Great Britain, but cloudier weather with more persistant rain will probably spread in from the Atlantic.

FURTHER OUTLOOK.

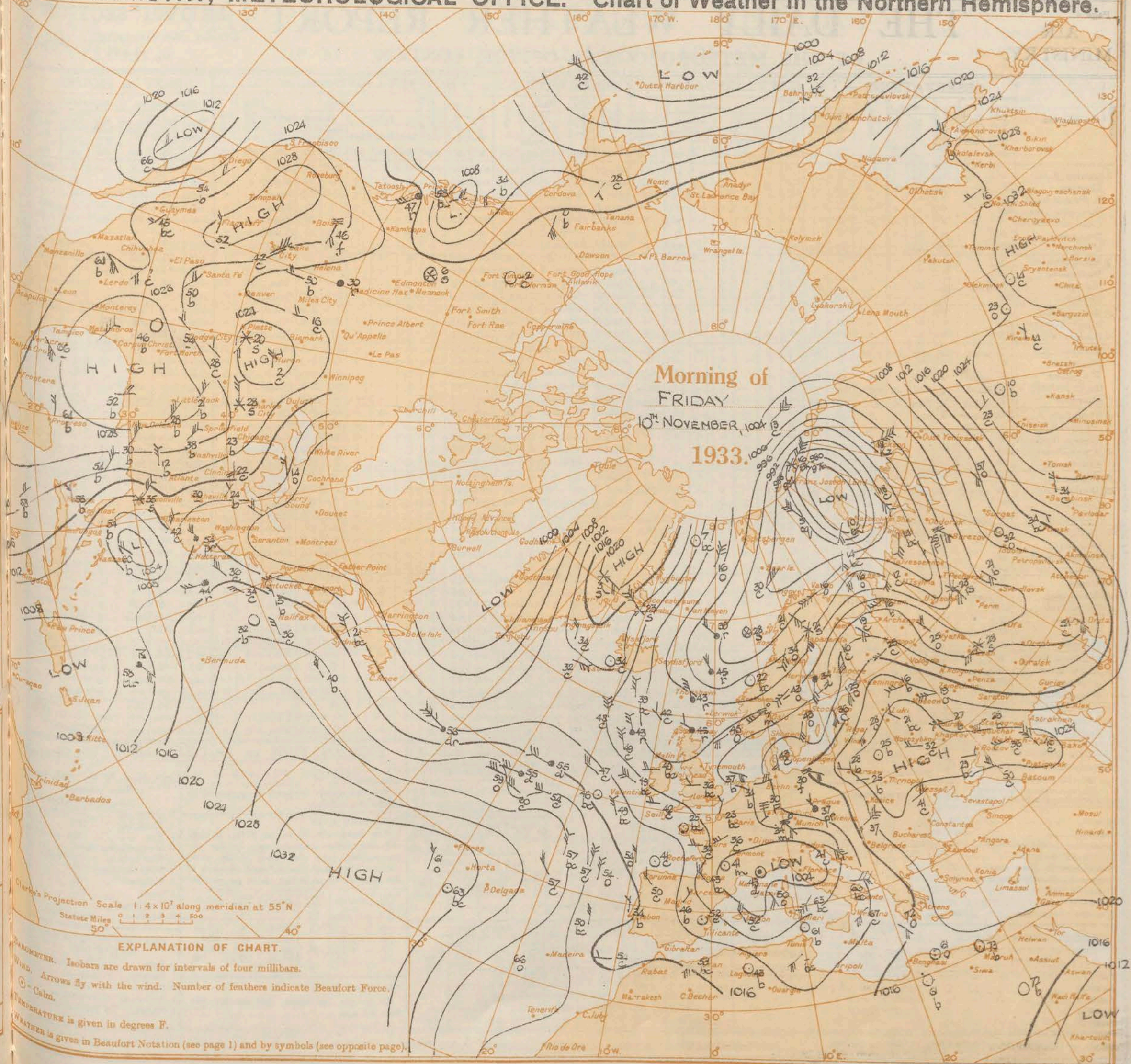
Rather unsettled.

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

Forecasts issued at 1030 G.M.T.

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, 10th November 1933.

No. 26.286

OBSERVATIONS at 1 hr. G.M.T. 10th November

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	1011.2	-26	S	4	c	43	75	6	5	7	-	7-8	9+	5700
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1012.2	-28	WSW	1	b	37	85	7	-	-	1	0	Tr.	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1010.1 1012.4	-20	SSW	3	o	45	85	7	5	-	-	10	10	2500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1011.7	-20	NW	4	o/pr	51	85	7	5	-	-	10	10	1500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1014.1	-10	NW	3	bc	46	95	8	4	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	1014.8	-2	NW	4	bc/pr	50	75	8	3	-	-	4-6	4-6	2500
	Guernsey	175	1012.3	-30	SSW	2	rr	49	95	7	6	-	-	10	10	1500
6	Pembroke	142	1012.5	-8	NW	3	c	49	85	7	4	2	-	4-6	7-8	2500
7	Holyhead	26	1011.3	-12	NW'W	5	bc	49	75	8	1	-	-	4-6	4-6	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1007.2	-16	SW'S	4	rr	45	95	6	6	-	-	10	10	2500
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	100	1006.8	-12	W	2	bc	48	85	7	4	-	-	4-6	4-6	4000
11	Inchkeith	190	1006.2	-12	SW	4	bc	45	85	7	5	-	-	2-3	2-3	1500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts I.)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1003.7	-12	WSW	2	c/pr	44	85	8	8	6	-	7-8	9	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1002.2	-8	W	2	r.r.	42	95	8	9	2	-	7-8	9+	1500
16	Lerwick	54	1001.1	-4	NW	2	bc	43	85	8	8	-	-	4-6	4-6	1500
17	Blacksod Point	18	1013.9	-8	WNW	4	c	48	75	8	9	-	-	7-8	7-8	800
18	Malin Head	52	1009.1	-6	W'N	4	c	49	85	7	3	-	-	7-8	7-8	1500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1016.0	-10	NW	3	ir	50	85	8	8	-	-	10	10	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 10th November

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)	1007.2	-6	W	2	m	44	95	4	5	7	-	7-8	9	2500	1	*
Croydon	1008.2	-16	W	2	clr	43	95	4	6	2	-	9	10	800	1	*
S. Farnborough	1007.6	-6	N'W	1	bc	42	95	6	5	4	-	2-3	2-3	4000	1	*
Boscombe Down	1008.2	-6	NW	2	b	40	95	8	5	-	-	1	1	2500	1	*
Calshot (S'thmtn)	1008.1	-8	WNW	3	b	43	95	7	5	-	-	1	1	1500	1	2
Dungeness	*	*	SW	2	rr	*	*	6	6	-	*	10	10	1500	*	1
Lympne	1006.7	-20	SW	2	r.r.	43	95	6	6	-	-	10	10	1500	1	*
Shoeburyness	1006.8	-16	NW	1	rr	43	95	5	6	-	-	10	10	450	1	*
Felixstowe	1006.5	-20	W	3	r.r.	42	95	6	6	-	-	10	10	1500	1	1
Gorleston	1006.3	-16	SW	2	r.r.	42	95	5	6	-	-	10	10	800	1	2
Cranwell	1007.0	-12	W'S	2	bc	38	95	3	5	-	-	2-3	2-3	4000	1	*
Birmingham	1008.1	-8	WNW	3	bc	41	85	6	8	-	-	2-3	2-3	2500	1	*
Upper Heyford	1008.0	-12	WNW	3	bc	39	95	8	5	4	-	2-3	4-6	1500	1	*
Ross-on-Wye	1009.3	-10	W'N	1	b	40	95	8	8	-	-	Tr	Tr	4000	1	*
Portland Bill	1009.8	-10	NNW	4	bc	47	85	7	4	-	-	4-6	4-6	2500	1	3
Plymouth	1010.7	-14	N	3	bc	44	85	9	8	-	-	2-3	2-3	1500	1	0
The Lizard	1011.6	-8	NNW	3	bc/pr	43	95	8	9	-	-	4-6	4-6	1500	1	3
Scilly (St. Mary's)	1012.4	-8	NNW	4	bc	49	75	8	2	-	-	2-3	2-3	2500	1	3
Guernsey	1009.7	-8	NNW	4	c	50	75	8	8	-	-	7-8	7-8	2500	1	3
Pembroke	1010.4	-6	WNW	3	bc	48	75	7	2	4	-	4-6	4-6	2500	0	2
Holyhead	1009.9	-8	NW'W	5	bc	49	75	8	3	-	-	4-6	4-6	4000	1	3
Chester (Sealand)	1008.0	-14	W'N	2	c/pr	45	85	7	9	-	-	7-8	7-8	1500	1	*
L'pool (Bidston)	1007.4	-8	WNW	4	c/pr	46	85	8	3	-	-	7-8	7-8	1500	1	*
Manchester	1007.2	-10	W'N	2	m	37	95	4	8	-	-	2-3	2-3	1500	1	*
Harrogate	1006.4	-10	-	0	b	36	95	9	3	-	-	Tr	Tr	2500	1	*
Spurn Head	1004.9	-10	W'N	4	c	43	95	6	5	7	-	2-3	7-8	2500	0	2
Catterick	1005.3	-12	W'N	2	b	41	85	8	8	6	-	Tr	Tr	4000	1	*
Tynemouth	1004.4	-16	W	2	bc	40	95	7	5	-	-	2-3	2-3	1500	1	1
Inchkeith	1004.7	-6	WSW	3	c	41	95	7	8	1	-	4-6	9	1500	0	2
Leuchars	1004.2	-4	W	2	c	37	95	8	5	-	-	7-8	7-8	2500	1	*
Renfrew (Abbotts I.)	1005.1	-12	SW'W	2	ir	40	95	8	5	1	-	7-8	10	2500	1	*
Eskdalemuir	1005.2	-10	S'W	1	c	37	95	9	8	-	-	7-8	7-8	1500	1	*
Tiree	1006.3	-4	N	5	c/pr	47	85	8	8	7	-	7-8	7-8	1500	1	3
Stornoway	1004.2	+6	NNW	4	ir	43	95	7	9	6	-	7-8	9	1500	1	2
Dalwhinnie	1004.8	-4	-	0	bc	33	95	8	4	1	-	2-3	4-6	2500	1	*
Aberdeen	1003.0	-6	W	1	bc	37	85	7	-	5	-	0	2-3	-	1	1
Wick	1001.6	-4	W	2	bc	37	95	8	3	4	-	2-3	4-6	1500	1	2
Lerwick	1001.7	+6	NW'N	1	c	42	85	8	8	1	-	7-8	9	1500	0	*
Blacksod Point	1012.8	-4	WNW	3	c	47	85	8	9	-	-	7-8	7-8	800	1	3
Malin Head	1007.2	-8	NW	4	pr	49	85	7	3	-	-	9	9	1500	1	1
Aldergrove	1008.7	-10	SW	3	c/pr	42	95	8	8	-	-	9	9	1500	1	*
Donaghadee	1007.5	-12	W	2	c/pr	41	95	7	5	-	-	7-8	7-8	1500	1	1
Birr Castle	1013.9	-6	NW	1	b	34	95	8	-	3	-	0	1	-	1	*
Valentia Obsy.†	1014.2	-8	-	0	bc	46	85	8	8	3	-	4-6	4-6	2500	1	-
Roches Point	1013.8	-8	N	3	bc	43	95	8	3	-	-	2-3	2-3	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 9h. Hrs. (36)
London (Kew)	49	38	28	-	2	0.0
Croydon	49	38	35	-	3	0.0
S. Farnborough	48	39	29	-	2	0.0
Boscombe Down	53	40	37	-	1	5.5
Calshot (S'thmtn)	50	43	38	-	0.5	1.4
Dungeness	51	33	*	-	Tr	*
Lympne	47	36	26	-	0.4	0.0
Shoeburyness	49	36	32	-	1	0.0
Felixstowe	48	42	37	-	1	0.0
Gorleston	50	42	39	-	0.5	0.0
Cranwell	48	38	35	-	3	0.0
Birmingham	50	40	34	-	0.2	0.9
Upper Heyford	50	38	32	-	1	*
Ross-on-Wye	52	39	27	-	1	2.0
Portland Bill	53	45	*	-	1	*
Plymouth	55	44	40	Tr	2	0.2
The Lizard	52	43	*	-	5	*
Scilly (St. Mary's)	55	47	*	0.5	1	0.8
Guernsey	53	42	43	-	3	7.9
Pembroke	53	47	*	3	-	0.6
Holyhead	55	48	45	7	-	0.1
Chester (Sealand)	53	41	31	-	5	0.3
L'pool (Bidston)	52	45	42	-	2	0.1
Manchester	52	34	26	Tr	3	*
Harrogate	52	35	28	-	0.3	0.1
Spurn Head	49	43	*	-	3	0.0
Catterick	52	37	31	-	1	0.2
Tynemouth	54	40	35	-	0.3	*
Inchkeith	50	41	37	Tr	-	0.2
Leuchars	49	35	29	0.1	-	0.4
Renfrew (Abbotts I.)	49	36	29	5	0.2	0.0
Eskdalemuir	48	34	31	2	0.1	0.1
Tiree	52	45	40	10	3	1.1
Stornoway	49	42	*	2	4	0.3
Dalwhinnie	45	32	28	3	3	0.0
Aberdeen	49	(35)	36	5	0.4	1.4
Wick	48	36	*	5	1	*
Lerwick	50	41	*	3	-	0.0
Blacksod Point	52	45	*	2	3	*
Malin Head	51	42	*	6	3	0.5
Aldergrove	48	37	33	6	1	0.4
Donaghadee	49	39	*	2	0.3	*
Birr Castle	51	33	22	2	-	2.8
Valentia Obsy.†	54	46	41	1	0.2	5.3
Roches Point	55	43	*	1	Tr	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations, except Greenwich & Hampstead 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.
Kew	18	c5c3	c3bm	cmcrcm	49	38	28	-	2	0.0	*	*	5
Croydon	217	cm	cbcm	bmcmrm	49	38	35	-	3	0.0	*	*	4
Greenwich (Royal Observatory)	149	cmc	cb	bxcrcm	51	36	26	-	3	0.0	72	87	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park)	27	*	*	*	50	42	35	2		0.0	65	84	*
‡Regents Pk. (Botanic Gardens)	168	*	*	*	50	43	36	2		0.0	64	91	*
Camden Square	110	c	c	*	50	44	35	-	2	*	*	90	*
Kensington	80	bbcmxbcm	cbc	*	50	39	30	-	2	0.0	At 18h. 70	88	*
Hampstead Observatory	450	o5	c	o5r	48	40	34	-	2	0.0	*	98	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
1.2	21h 9th	<0.3	13-15h 9th and 0-7h 10th

Kew Observatory Max.	Time.	Min.	Time.
1.3	9h 9th	0.1	3h 10th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 9th November Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 10th November 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	1015.0	N	1	3o	39	1009.1	-	0	f	25	46	25	-	-
Brussels	1015.6	NW	1	b	39	1007.1	-	0	f	27	46	27	-	-
Berlin	1019.3	SSE	1	0	45	1009.9	E	3	f	34	48	32	-	-
Zürich	1012.7	NNE	4	0	36	1006.6	WSW	3	c	36	43	34	-	-
Rome						1005.4	SSE	2	old	50		48		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	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. 1 Smooth. 2 Slight. 3 Moderate. 4 Rough. 5 Very rough. 6 High. 7 Very high. 8 Precipitous. 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. ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 11th November 1933.

No. 26.287

OBSERVATIONS at 13h. G.M.T. 10th 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)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)	Sunshine 9h. Hrs. (35)
1	London (Kew)	1005.1	-16	WNW	3	c	49	65	7	5	-	-	7-8	7-8	2500	0.0
	Croydon	1005.7	-18	WNW	4	3o	47	75	6	8	-	-	4-6	4-6	1500	0.0
	S. Farnborough	1005.2	-22	NW'W	3	bc	48	65	7	8	-	-	4-6	4-6	2500	0.0
	Boscombe Down	1006.1	-18	NW'N	2	bc	46	75	8	8	-	9	2-3	2-3	1500	5.5
	Calshot, S'thmtn	1006.2	-14	WNW	4	bc	50	65	8	2	-	-	4-6	4-6	4000	1.4
	Dungeness	*	*	NW	2	c	*	*	5	4	7	*	4-6	9	1500	*
	Lympne	1004.2	-18	NNW	3	c/d	44	85	5	5	2	-	9	9+	800	0.0
2	Shoeburyness	1004.0	-18	NNW	2	c	47	85	6	5	3	-	4-6	7-8	1500	0.0
	Felixstowe	1003.6	-20	NW	3	3o	46	85	6	5	7	-	2-3	9+	4000	0.0
	Gorleston	1003.0	-16	NW	3	c	47	85	6	9	9	-	2-3	7-8	2500	0.0
	Cranwell	1004.2	-20	W'S	2	m	48	85	4	1	-	-	4-6	4-6	4000	0.0
3	Birmingham	1005.3	-16	WNW	3	c/pr	49	65	6	9	-	-	7-8	7-8	1500	0.9
	Upper Heyford	1005.8	-14	WNW	4	bc	47	75	8	7	-	9	2-3	2-3	2500	*
4	Ross-on-Wye	1005.9	-20	NW	3	bc	51	65	8	1	-	9	2-3	2-3	4000	2.0
5	Portland Bill	1006.6	-14	NW	4	bc	52	65	8	2	-	-	4-6	4-6	2500	*
	Plymouth	1008.5	-20	WNW	4	bc	50	75	8	8	-	-	2-3	2-3	2500	0.2
	The Lizard	1010.1	-10	NW'N	3	bc/pr	50	75	8	8	-	-	4-6	4-6	1500	*
	Scilly (St. Mary's)	1011.1	-14	NNW	4	bc	53	75	8	2	-	-	4-6	4-6	2500	0.8
	Guernsey	1008.2	-10	N'W	4	bc	52	55	8	4	-	-	4-6	4-6	2500	7.9
6	Pembroke	1009.3	-12	NW	3	q	51	75	7	5	-	-	7-8	7-8	4000	0.6
7	Holyhead	1007.4	-18	NW'W	6	c	49	75	8	2	3	-	7-8	9	1500	0.1
	Chester (Sealand)	1004.9	-22	NW	5	PH(R)	46	75	6	9	-	-	7-8	7-8	1500	0.3
8	L'pool (Bidston)	1004.8	-20	WNW	4	c/ph(r)	47	85	8	8	-	-	9	9	1500	0.1
	Manchester	1004.1	-22	NNW	5	c/ph(r)	48	75	7	9	7	3	7-8	9	1500	*
9	Harrogate	1001.9	-10	NNW	2	c/pr	47	75	8	3	-	-	9+	9+	2500	0.1
10	Spurn Head	1002.9	-6	NW	3	c	47	85	7	1	7	-	4-6	7-8	4000	0.0
	Catterick	1003.1	-16	NW	2	c	46	75	8	8	6	3	4-6	7-8	2500	0.2
	Tynemouth	1003.0	-10	W	3	c/pr	45	85	7	9	-	-	7-8	7-8	1500	*
11	Inchkeith	1004.7	0	WNW	2	c	47	75	9	4	3	-	4-6	7-8	4000	0.2
	Leuchars	1004.4	-2	WNW	3	bc	48	65	8	8	6	3	4-6	4-6	2500	0.4
12	Renfrew (Abbotts'l)	1004.5	-8	WNW	3	c	48	75	8	8	-	-	7-8	7-8	4000	0.0
	Eskdalemuir	1003.5	-8	NNW	3	bc	45	65	7	8	-	-	2-3	2-3	1500	0.1
13A	Tiree	1006.9	0	N	5	bc	48	75	9	8	-	3	4-6	4-6	2500	1.1
13B	Stornoway	1006.0	+2	N	3	c	46	75	8	4	5	-	4-6	7-8	1500	0.3
15	Dalwhinnie	1005.9	0	N	2	c	41	85	8	4	4	-	4-6	9	2500	0.0
	Aberdeen	1002.9	-2	NW'W	3	pr	47	85	7	9	-	-	4-6	4-6	1500	1.4
	Wick	1003.7	+8	N	3	bc	47	95	8	3	8	-	2-3	4-6	2500	*
16	Lerwick	1003.1	+2	N	3	bc	45	75	9	8	-	-	4-6	4-6	2500	0.0
17	Blacksod Point	1011.9	-8	NW	3	bc	49	75	8	8	-	-	4-6	4-6	2500	*
18	Malin Head	1007.8	-2	N'W	5	c	48	75	7	3	8	-	4-6	7-8	1500	0.5
	Aldergrove	1007.3	-8	NW'N	3	c/pr	47	85	8	8	-	-	7-8	7-8	1500	0.4
	Donaghadee	1006.0	-4	N	5	pr	48	75	8	5	-	-	7-8	7-8	1500	*
19	Birr Castle	1010.4	-12	N	3	c	49	65	8	5	-	-	9+	9+	2500	2.8
20	Valentia Obsy.	1013.1	-12	NW'N	3	bc	52	75	8	7	-	-	2-3	2-3	2500	5.3
	Roches Point	1011.5	-10	N	3	bc	50	75	8	3	-	-	2-3	2-3	2500	*

OBSERVATIONS at 18h. G.M.T. 10th 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)	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)	1003.6	-6	WNW	1	c	44	85	6	5	-	-	7-8	7-8	2500	1	*
	Croydon	1004.0	-6	WNW	2	c/r	45	85	4	5	-	-	7-8	7-8	1500	1	*
	S. Farnborough	1003.7	-6	WNW	1	c/pr	43	85	7	5	-	-	9+	9+	2500	1	*
	Boscombe Down	1004.3	-6	W'N	3	c	44	85	7	8	-	-	7-8	7-8	2500	0	
	Calshot, S'thmtn	1004.6	-4	SW'W	3	bc	45	75	8	8	4	-	4-6	4-6	4000	0	1
	Dungeness	*	*	NW	2	bc	*	*	5	5	-	*	2-3	2-3	1500	*	2
	Lympne	1003.4	-2	NW'W	2	3o	40	85	6	-	-	-	0	0	-	1	*
2	Shoeburyness	1003.0	-4	NW	1	bc	41	95	6	4	-	-	2-3	2-3	4000	1	*
	Felixstowe	1003.0	0	WNW	1	3o	44	85	5	-	4	-	0	1	-	1	0
	Gorleston	1002.5	-2	W'N	2	bc	43	85	6	5	-	-	4-6	4-6	2500	0	2
	Cranwell	1003.3	+2	NW'W	2	ir.	43	85	6	5	-	-	10	10	1500	1	*
3	Birmingham	1004.2	-4	WNW	2	c	42	95	6	6	-	-	9+	9+	1500	1	*
	Upper Heyford	1004.3	-2	NW	3	c/r	42	95	8	6	-	-	10	10	1500	1	*
4	Ross-on-Wye	1004.4	-8	NW	2	ir.	45	85	7	8	-	-	9+	9+	2500	1	*
5	Portland Bill	1005.1	-6	NNW	3	bc	50	66	8	4	-	-	4-6	4-6	2500	0	3
	Plymouth	1007.3	-6	NNW	3	bc	48	75	6	8	-	-	2-3	2-3	2500	1	1
	The Lizard	1008.7	-6	NW'N	3	bc	48	75	8	8	-	-	4-6	4-6	1500	1	1
	Scilly (St. Mary's)	1009.8	-8	NNW	4	bc	49	75	8	2	-	-	4-6	4-6	2500	0	3
	Guernsey	1006.6	-6	NNW	5	bc	50	55	8	7	-	-	4-6	4-6	2500	0	3
6	Pembroke	1006.3	-12	NW	4	c/pr	50	75	7	8	7	-	7-8	9+	2500	1	3
7	Holyhead	1006.3	-2	NW'N	6	q	49	75	8	3	-	-	9+	9+	1500	1	3
	Chester (Sealand)	1004.5	+2	NNW	2	bc	41	85	7	3	-	-	4-6	4-6	1500	1	*
8	L'pool (Bidston)	1004.3	0	NNW	3	b	45	75	8	5	-	-	Tr.	Tr.	4000	1	*
	Manchester	1003.9	+2	NNE	2	bf	35	95	3	3	-	3	Tr.	Tr.	2500	1	*
9	Harrogate	1003.7	0	W	1	pr	40	85	7	6	-	-	2-3	2-3	2500	1	*
10	Spurn Head	1001.7	-4	NW	4	jp	46	85	7	-	2	-	0	4-6	-	0	2
	Catterick	1003.4	+8	NW'N	1	bc/pr	39	95	7	8	-	-	2-3	2-3	2500	1	*
	Tynemouth	1003.8	+6	NNW	3	c	44	75	6	9	-	-	7-8	7-8	1500	1	2
11	Inchkeith	1005.2	+8	NW	2	c	45	75	8	5	6	-	4-6	7-8	4000	0	1
	Leuchars	1005.3	+6	NW	2	bc	42	75	8	8	-	3	4-6	4-6	2500	1	*
12	Renfrew (Abbotts'l)	1005.5	+8	-	0	b	40	85	8	1	-	-	Tr.	Tr.	4000	1	*
	Eskdalemuir	1005.0	+8	N'W	1	pr	37	85	8	5	-	-	4-6	4-6	1500	1	*
13A	Tiree	1007.5	+8	N'E	3	jp	47	75	9	8	-	3	4-6	4-6	1500	1	3
13B	Stornoway	1007.1	+2	SW	1	bc	42	95	8	9	6	-	2-3	2-3	2500	1	1
15	Dalwhinnie	1006.9	+8	N	1	ir.	37	95	7	4	4	-	2-3	4-6	1500	1	*
	Aberdeen	1004.4	+12	NW	3	pr	40	95	7	9	-	-	2-3	2-3	2500	1	1
	Wick	1004.9	+6	NW	2	bc	41	95	8	8	1	-	4-6	4-6	2500	1	2
16	Lerwick	1004.4	+8	N	2	bc	42	95	9	8	-	-	4-6	4-6	1500	0	*
17	Blacksod Point	1010.5	-6	-	0	c	45	85	8	8	-	-	7-8	7-8	800	1	3
18	Malin Head	1007.6	+4	N'W	4	c/pr	47	85	7	3	-	-	7-8	7-8	1500	1	1
	Aldergrove	1007.5	+4	WNW	2	pr	42	95	8	8	-	-	7-8	7-8	1500	1	*
	Donaghadee	1006.2	+2	N	4	q	46	75	8	5	3	-	4-6	4-6	2500	0	2
19	Birr Castle	1009.8	-2	NNW	1	c/pr	45	95	8	8	-	-	9+	9+	2500	1	*
20	Valentia Obsy.	1011.1	-10	N'E	2	c	47	85	9	5	-	2	4-6	7-8	1500	1	3
	Roches Point	1010.2	-4	N	3	bc	49	75	8	3	-	-	2-3	2-3	2500	0	3

PAST 24 HOURS.

District	Stations	Weather 7h.–13h. 10h (37)	Weather 13h.–18h. 10h (38)	Weather 18h. 10h to 1h. 11h (39)	Weather 1h.–7h. 11h (40)
1	London (Kew)	bcm.c	bccp.	m.cpr	bcbxm
	Croydon	cmbcm.	bc3.c3r.r.	cmor.om	bbcm.of
	S. Farnborough	bbc	bcb,cpr	corm.bc	cm.of
	Boscombe Down	bbc	bcbcc	cbccpr	bcof
	Calshot, S'thmtn	bbc	bbc	bccprbcb	bm.bwm
	Dungeness	r	bc		c
	Lympne	orrdom	cbm.	cbim.	bwcom.
2	Shoeburyness	omrcm	cm.bc	bcm.bm.	ogg
	Felixstowe	cirmcm	c3.bc3.	b3.	b3.,oggc
	Gorleston	orrmc	cbc3.	cbcb3.	bcpr
	Cranwell	bfmbm	bcmcr.	bchw	bm.w
3	Birmingham	bbc	cpr	pr.bc	bcc
	Upper Heyford	bcbbc	bccpr r	crr.bc	bgx
4	Ross-on-Wye	bbc	bccpcr.	bccp.b	bxc
5	Portland Bill	bc	bc	cprbc	bbc
	Plymouth	cprb	bcjpbm.	cprbc	bcb
	The Lizard	bcpr.	bcpr.	bcpr.	cbc
	Scilly (St. Mary's)	bc	bc	bcp.c	cbcc
	Guernsey	cbc	bccbc	bccpr	cprbc
6	Pembroke	bcqc	cqprcq	bcpr.c	cprc
7	Holyhead	bcc	cPRHq	PRbc	bc
	Chester (Sealand)	bcphr	PRq,c	bcbm	bmcm.
8	L'pool (Bidston)	cbPRHc	cprb	bbcb	wbbc
	Manchester	bcfprh	PRHb	bfex	bfxcmx
9	Harrogate	bbccp.	cbp	cb	cbc
10	Spurn Head	bc	cbc	cpr	prc
	Catterick	bbc	cphbcpr	bcc	c
	Tynemouth	bccp.	cp.c	cbcp	bcP
11	Inchkeith	c	c	bcb	b3.
	Leuchars	cwprbv	cprbcw	bcwbx	bxv
12	Renfrew (Abbotts'l)	cr.bbcc	prcbv	bbxm.	bbcxm.
	Eskdalemuir	pr.bc	bc	pr.cb	bx
13A	Tiree	cpr.bc	bcprc	bcpr.	cx
13B	Stornoway	pr bc	bccbc	bc	bcc
15	Dalwhinnie	bc	bc	*	c
	Aberdeen	bccpr	bccpr	bcb	bbcw
	Wick	bcpr.	pr bc	bc	bc
16	Lerwick	bc	bc	bccprm	cpc
17	Blacksod Point	prcq	prbc	prc	cq
18	Malin Head	cpr	cpr	cprbc	bcc
	Aldergrove	cpr	bccpr	b	bcffc
	Donaghadee	cqpr	cqprbc	bcqprc	cbc
19	Birr Castle	bc	cpr.	~~bccx~~ cbc	bccx
20	Valentia Obsy.	bcbbc	bcc	c	cw
	Roches Point	bc	bc	bcbw	bbccw

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.
g, 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. ⚡ gale.

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 "4–8" 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.

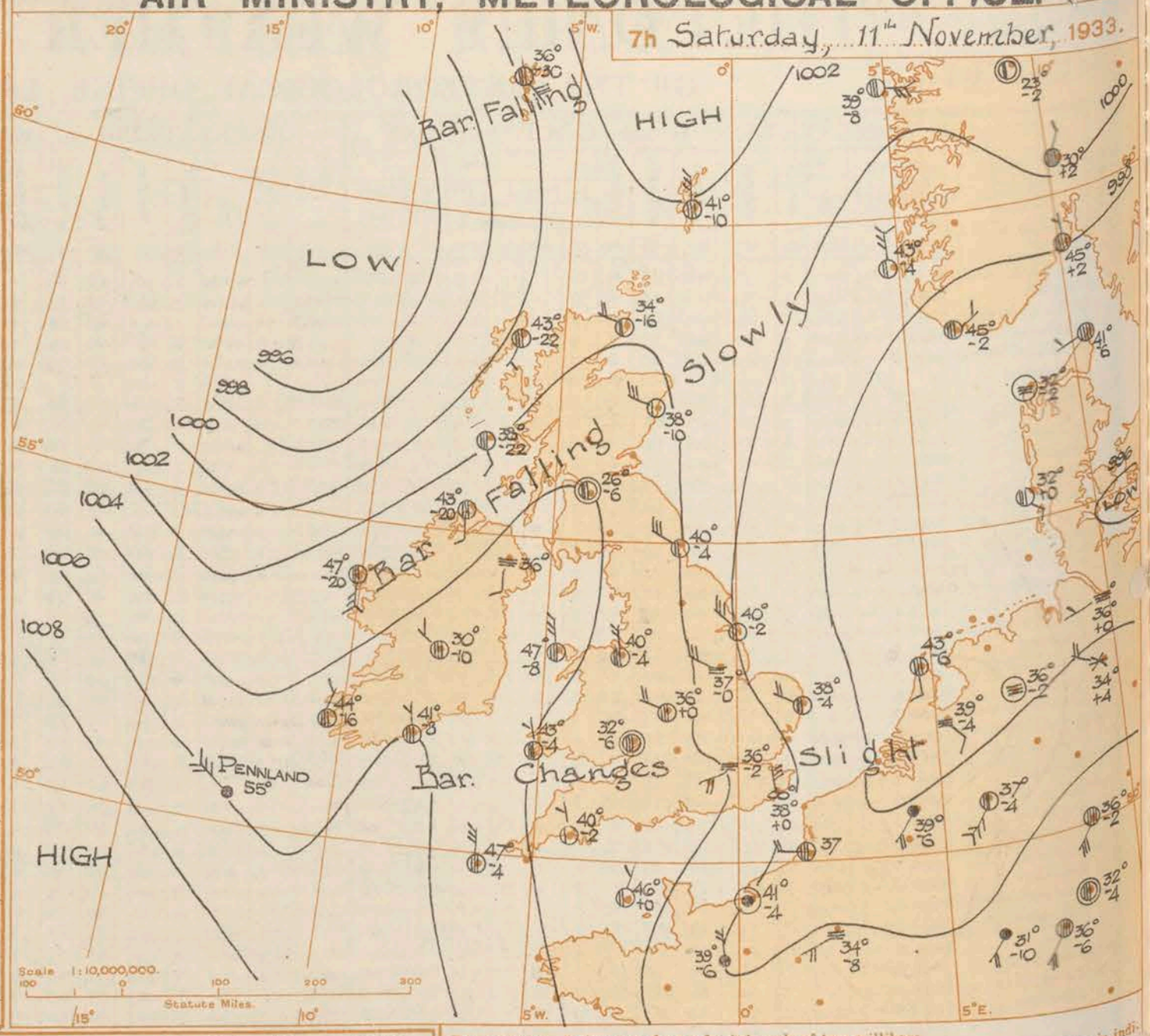
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for 10th November 1933.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	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.	cbc	co	32	47	4	–	1.7
	Bournemouth	b	b	40	52	0.5	–	6.8
	Ventnor ...	rpbcb	bbcz	42	52	2	–	6.9
	Southsea ...	b	bbc	41	51	1	–	6.2
	Bognor Regis	b	bbcbc	42	50	5	–	6.3
	Littlehampton	bc	bc	38	54	6	–	6.0
	Worthing ...	bcb	bbcb	41	51	6	–	5.8
	Brighton ...	cbcb	bc	38	50	5	–	4.7
	Eastbourne†	oc	cbcb	37	49	5	–	3.3
	Hastings† ...	oroc	bcc	40	49	11	0.3	1.2
	Folkestone ...	or	ocbc	38	48	1	Trace	0.1
	Dover... ...	moirc	mcbc	37	46	2	0.3	0.2
	Deal	r	o	37	46	1	1	0.0
	Ramsgate ...	roc	c	42	47	3	Trace	0.0
	Margate ...	c	cbc	40	48	2	–	0.1
2	Southend ...	ofc	cmbc	41	49	1	–	2.2
	Maldon ...	roc	bcc	34	49	2	–	1.6
	Clacton-on-Sea	egmrc	cbc	41	47	2	0.2	0.9
	Dovercourt ...	rocm	bcm	41	47	2	–	1.1
	Lowestoft ...	ciro	dcbc	41	47	2	0.4	1.2
	Skegness ...	rom bc	bcm	43	48	3	–	4.6
	Mablethorpe	cbcbm	bbcm	39	49	3	–	5.6
	Cleethorpes ...	b	bcc	40	47	1	–	4.7
3	Leamington S.	bcc	coro	37	48	0.6	0.4	1.7
4	Cheltenham†	bmbc	bccor	37	48	1	Trace	6.0
5	Bath	b	bbc	38	52	0.3	–	7.2
	Weymouth ...	b	b	41	54	0.1	–	7.6
	Jersey ...	rcbc	bcrc	40	54	3	1	4.0
	Torquay ...	pbw	bbcpb	40	53	0.4	Trace	7.7
	Penzance ...	b	b	46	55	2	–	7.6
	St. Ives ...	b	b	48	51	1	–	4.6
	Bude	pbc	bc	43	52	0.5	1	5.1
	Ilfracombe ...	bcc	bbc	49	52	2	–	3.8
6	Aberystwyth	prbcc	bcpr	47	50	1	3	2.5
7	Llandudno ...	cipc	bcrbc	46	50	5	3	0.3
	Colwyn Bay...	bcbc	cpcbc	44	49	6	2	0.3
	Rhyl	prbcc	cprbc	45	50	3	0.4	1.0
8	Wallasey ...	bcb	bcbcb	46	50	2	1	3.5
	Southport‖ ...	corcbc	cbcb	43	50	3	1	2.1
	Blackpool ...	cp	cbc	45	49	5	0.3	2.4
	Morecambe ...	crbcb	cibbc	43	49	8	2	4.5
9	Ilkley... ...	bbc	cPRc	36	49	Trace	1	4.4
10	Berwick-on-T.	bcc	cro	36	47	–	0.5	3.6
11	Dunbar ...	bcmp	cp	39	47	0.3	Trace	1.3
12	Troon... ...	crbcb	cbc	44	50	1	–	4.9
	Douglas ...	cbcir	circb	43	49	–	1	2.8

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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 Nov., 1933.
1. S.E. England 2. E. England... 3. E. Midlands	Wind northwest or variable, light or moderate; local showers, bright intervals; fog tonight; perhaps rain tomorrow; rather low temperature, local frost at night.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Wind light, variable or southerly, then westerly, freshening; cloudy, probably rain at times; moderate or rather low temperature.
8. N.W. England 9. N Midlands 10. N.E England	Wind light, variable to moderate southerly; bright intervals and local showers at first, perhaps more general rain later; rather low to moderate temperature.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W Scotld. B. N.W. Scotland.	Wind southerly, light or moderate, perhaps veering and freshening; cloudy, rain or showers; moderate or rather low temperature.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind south or southeast, moderate; cloudy, rain probable later; rather low temperature.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind variable to west or northwest, light to fresh; cloudy, rain or showers; moderate or rather low temperature.

GENERAL INFERENCE.

A shallow depression covers Denmark and the Baltic. A depression centred off Southwest Iceland, with a trough extending to west of Ireland is spreading east and southeast. There will be showers and local bright intervals in the East today, but more general rain is probable in the extreme West and may spread eastwards.

FURTHER OUTLOOK.

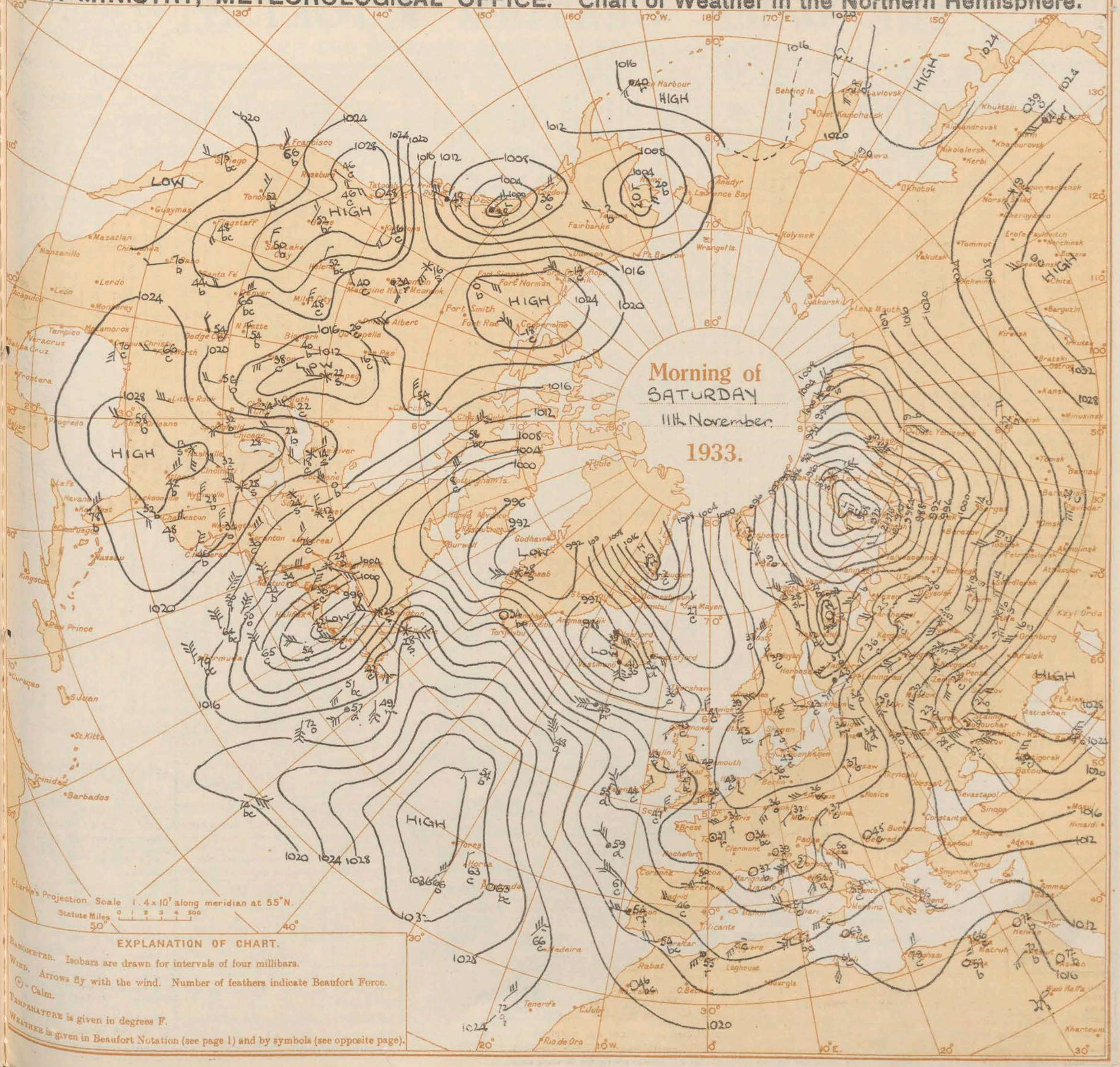
Unsettled.

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

Forecasts issued at 1010 G.M.T.

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, 11th November 1933.

No. 26.287

OBSERVATIONS at 1 hr. G.M.T. 11th November

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)	Amount Low 0-10 (12)	Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1002.6	-10	NW'W	2	3o	41	95	6	5	-	-	10	10	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1001.0	-14	N	4	3o	38	95	5	-	3	1	0	Tr.	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1000.4	-10	W'N	2	bc	38	95	6	4	-	-	2-3	2-3	2500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1002.4	-8	NNW	4	b	44	85	8	-	-	-	0	0	-
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1005.5	-10	NNW	3	c	45	85	8	8	-	-	7-8	7-8	2500
	Scilly (St. Mary's)	163	1005.9	-16	NNW	5	c	49	85	8	8	5	3	2-3	7-8	2500
	Guernsey ...	175	1002.9	-22	NNW	5	bc	49	75	8	8	-	-	4-6	4-6	2500
6	Pembroke ...	142	1004.6	-6	NNW	3	pr₀	47	75	7	3	6	-	4-6	7-8	1500
7	Holyhead ...	26	1006.3	0	NE'N	3	bc	48	75	8	4	-	-	4-6	4-6	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1000.3	-2	NW	5	c	42	95	7	3	7	-	4-6	7-8	4000
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	100	1002.8	-4	W	3	bc/pr	43	95	7	9	-	-	4-6	4-6	1500
11	Inchkeith ...	190	1005.0	-2	NW	3	b	41	85	8	-	4	-	0	Tr.	-
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts I.)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1005.4	-14	-	0	bc	39	95	8	8	-	-	4-6	4-6	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1004.3	-6	WNW	2	bc	37	95	8	3	1	-	2-3	2-3	2500
16	Lerwick ...	54	1003.4	-6	N	3	pr₀	41	95	6	9	1	-	9	9	800
17	Blacksod Point	18	1007.6	-12	-	0	c	44	95	8	5	3	-	4-6	7-8	800
18	Malin Head ...	52	1005.6	-8	S	1	bc	43	95	7	4	9	-	2-3	4-6	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1007.8	-6	S	1	bc	47	85	8	5	-	-	4-6	4-6	4000
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 11th November

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)	1001.5	0	WNW	1	m	36	95	4	-	3/	-	0	Tr	-	4	*
Croydon	1002.1	-2	W'S	2	of	36	95	3	5	-	-	10	10	450	1	*
S. Farnborough	1001.9	-2	NW'W	2	f	32	95	3	·	·	·	10	10	<150	1	*
Boscombe Down	1002.6	-2	NNW	3	f	35	95	3	5	-	-	10	10	<150	1	*
Calshot, (S'thmtn)	1002.1	0	WNW	3	m	38	95	4	5	-	-	Tr	Tr	800	1	2
Dungeness	*	*	NNW	2	m	*	*	4	4	-	*	7.8	7.8	1500	*	1
Lympne	1000.5	0	N'W	3	3o	38	95	5	5	-	-	10	10	220	1	*
Shoeburyness	1000.6	-2	N	1	of	38	95	3	5	-	-	10	10	450	1	*
Felixstowe	1000.3	-4	NW'W	3	of	38	95	3	5	-	-	10	10	220	0	0
Gorleston	999.2	-4	WNW	2	c	38	85	6	9	-	-	9	9	1500	1	2
Cranwell	1001.9	0	NW'W	3	cf	37	95	3	5	-	-	9	9	450	1	*
Birmingham	1003.5	0	WNW	2	c	36	95	5	5	7	-	7-8	9+	2500	1	*
Upper Heyford	1002.6	-2	E	2	m	33	95	4	5	-	-	4.6	4.6	450	1	*
Ross-on-Wye	1003.6	-6	-	0	c	32	95	7	5	-	-	9	9	4000	1	*
Portland Bill	1002.2	0	N	3	bc	40	85	7	5	-	-	2-3	2-3	2500	0	5
Plymouth	1003.4	-2	NNW	1	b	40	95	8	8	3	4	Tr	1	2500	1	0
The Lizard	1004.2	-4	N	3	bc	42	85	8	8	4	-	4.6	4.6	2500	1	2
Scilly (St. Mary's)	1004.5	-4	N	3	c	47	75	8	8	6	-	4.6	7.8	2500	0	2
Guernsey	1002.6	0	N'E	1	bc	46	65	8	8	-	-	4.6	4.6	2500	0	3
Pembroke	1003.3	-4	NNW	1	c	43	95	7	8	6	-	4.6	7.8	2500	1	2
Holyhead	1005.0	-8	N	3	c	47	65	8	4	-	2	1	7.8	2500	1	1
Chester (Sealand)	1003.5	-4	N	2	c	40	95	6	5	-	-	9	9	2500	1	*
L'pool (Bidston)	1003.5	-2	N'E	2	c	41	85	7	5	6	-	4.6	7.8	2500	0	*
Manchester	1003.1	0	-	0	m	33	95	4	5	-	-	9+	9+	2500	4	*
Harrogate	1002.1	0	W	1	c	39	75	7	8	-	-	9	9	2500	1	*
Spurn Head	1000.0	-2	NW	3	bc/pr	40	95	7	3	7	-	2.3	4.6	4000	1	2
Catterick	1002.1	-2	NW'W	3	c	41	85	7	5	-	-	7.8	7-8	1500	1	*
Tynemouth	1002.0	-4	WNW	3	bc/pR	40	95	6	3	-	-	4.6	4.6	1500	1	2
Inchkeith	1003.8	-10	W	2	3o	39	95	6	5	-	-	7.8	7.8	1500	0	1
Leuchars	1003.4	-12	W	2	bc	32	95	9	8	-	5	1	2.3	4000	1	*
Renfrew (Abbotts I.)	1004.0	-6	-	0	cfg	26	95	6	-	-	2	0	97	-	4	*
Eskdalemuir	1003.7	-8	ESE	1	b	30	95	9	5	-	-	1	1	4000	1	
Tiree	1001.7	-22	SSW	2	c	38	95	9	5	3	-	4.6	9+	2500	1	1
Stornoway	1000.8	-22	SW	1	c	43	85	8	8	6	-	4.6	7.8	1500	1	1
Dalwhinnie	1004.2	-16	-	0	c	33	95	7	4	2	-	4.6	9	2500	0	*
Aberdeen	1002.2	-10	WNW	3	b	38	95	7	5	-	-	1	1	4000	1	1
Wick	1001.6	-16	WNW	2	bc	34	95	8	5	1	8	2.3	4.6	2500	1	2
Lerwick	1001.5	-10	N	3	c/pr	41	85	7	8	7	-	4.6	7.8	1500	1	*
Blacksod Point	1003.1	-20	S	4	c	47	95	8	8	-	-	10	10	800	1	3
Malin Head	1002.2	-20	S	1	c	43	85	9	5	-	-	9+	9+	1500	0	1
Aldergrove	1004.4	-	S	1	F	36	95	1	·	·	·	10	10	<150	1	*
Donaghadee	1003.6	-4	W	2	bc	38	95	8	8	3	-	4-6	4.6	2500	0	1
Birr Castle	1005.1	-10	NW	1	c	30	95	7	5	-	-	9+	9+	2500	1	*
Valentia Obsy.†	1005.3	-16	NE'N	1	c	44	95	8	5	2	-	2.3	10	2500	1	-
Roches Point	1006.0	-8	N	1	c	41	95	8	5	-	-	7.8	7.8	2500	0	2

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 10h. Hrs. (36)
London (Kew)	49	36	26	Tr.	0.2	3.7
Croydon	48	36	33	0.2	0.1	2.4
S. Farnborough	50	31	27	Tr.	1	6.3
Boscombe Down	49	34	31	-	0.4	7.2
Calshot, (S'thmtn)	50	37	34	-	0.1	7.4
Dungeness	50	34	*	8	Tr	*
Lympne	46	37	34	2	-	1.1
Shoeburyness	48	36	35	0.2	-	1.6
Felixstowe	47	36	34	1	0.1	0.8
Gorleston	47	36	34	1	0.6	1.4
Cranwell	48	35	32	Tr.	Tr	4.2
Birmingham	49	32	28	1	0.2	5.0
Upper Heyford	49	32	24	2	0.6	*
Ross-on-Wye	51	32	22	0.5	0.1	6.4
Portland Bill	52	37	*	-	Tr	*
Plymouth	51	40	33	0.4	1	6.4
The Lizard	51	40	*	0.2	0.6	*
Scilly (St. Mary's)	53	47	*	-	Tr	6.5
Guernsey	52	46	40	-	1	5.8
Pembroke	54	43	*	0.2	3	5.3
Holyhead	50	44	40	1	1	3.3
Chester (Sealand)	50	30	25	4	-	1.8
L'pool (Bidston)	48	39	34	1	-	3.3
Manchester	49	27	19	2	-	*
Harrogate	48	36	29	0.3	-	3.9
Spurn Head	48	39	*	-	1	4.7
Catterick	48	38	33	0.3	-	4.3
Tynemouth	46	40	37	0.1	9	*
Inchkeith	48	37	32	-	-	(2.9)
Leuchars	48	31	23	Tr.	-	3.9
Renfrew (Abbotts I.)	48	24	19	0.2	-	4.9
Eskdalemuir	46	28	23	Tr.	Tr	4.1
Tiree	49	33	24	0.4	Tr	4.5
Stornoway	46	37	*	0.2	Tr	3.9
Dalwhinnie	42	32	30	Tr.	Tr	0.8
Aberdeen	47	37	33	0.3	0.1	4.6
Wick	47	30	*	Tr.	-	*
Lerwick	47	39	*	-	1	5.1
Blacksod Point	52	42	*	0.3	Tr	*
Malin Head	49	41	*	3	Tr	1.9
Aldergrove	49	33	29	1	Tr	2.2
Donaghadee	49	37	*	1	1	*
Birr Castle	50	29	21	0.2	-	2.2
Valentia Obsy.†	53	39	35	-	Tr	5.7
Roches Point	52	40	*	-	Tr	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except Greenwich & Hampstead 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.	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew ...	18	bcm₀c	bccp₀	cprbcbxm	49	36	26	Tr	0.2	3.7	•	•	3
Croydon ...	217	cmbcm₀	bcbc3r₀r₀	cocombcof	48	36	33	0.2	0.1	2.4	•	•	3
Greenwich (Royal Observatory) ...	149	cbc₀	crf	cr₀bxef	49	36	26	Tr	Tr	1.5	69	93	3
City (Bunhill Row) ...	—				•	•	•	•	•	2.3	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	51	35	31	–		2.5	69	90	•
‡Regents Pk. (Botanic Gardens) ...	168	•	•	•	49	34	30	–		3.1	73	95	•
Camden Square ...	110	bcc	cbcc	•	50	36	30	-	-	•	•	94	•
Kensington ...	80	cbcxbc	bc3	•	49	36	28	0.5	-	2.2	At 18h. 57	94	•
Hampstead Observatory ...	450	bc	bc	c	48	32	25	-	Tr	4.1		93	•

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

South Kensington. Max.	Time.	Min.	Time.
0.6	19h 10th	<0.3	11-13h 10th and 23h 10th to 7h 11th

Kew Observatory. Max.	Time.	Min.	Time.
0.6	13h 10th	0.1	3h 11th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 10th November Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 11th November 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 ...	1004.2	W	1	dF	41	1000.5	WSW	2	f	34	41		3	
Brussels ...	1001.9	SW	2	c	37	998.2	SSW	1	rf	39	37		-	
Berlin ...	1001.4	SSE	3	o	37						46		-	
Zürich ...	1006.8	WNW	2	c	36	1003.6	SSW	2	c	37	39	32	-	-
Rome ...	1007.0	-	0	c	52	1004.5	S	3	c/pr	54	59	50	13	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	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. ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9 h.

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 12th November 1933.

No. 26·288

OBSERVATIONS at 13h. G.M.T. 11th 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)...	1000.6	-12	NW	2	o	40	85	5	5	-	-	10	10	1500
	Croydon ...	1001.3	-8	W	3	of	38	95	3	5	-	-	10	10	450
	S. Farnborough	1000.4	-14	NW'W	2	c	41	95	5	5	-	-	9+	9+	450
	Boscombe Down	1000.3	-20	N'E	3	c	44	85	7	8	-	-	7-8	7-8	1500
	Calshot, S'thmtn	1001.1	-10	NNW	4	bc	45	75	6	5	-	-	4·6	4·6	1500
	Dungeness ...	*	*	NNW	2	m	*	*	4	4	-	*	7-8	7-8	1600
	Lympne ...	999.5	-10	NNW	4	z₀	41	85	5	5	-	-	9	9	450
2	Shoeburyness	999.4	-10	WNW	2	c	43	85	5	5	-	-	7-8	7-8	800
	Felixstowe ...	998.7	-16	NW	3	z₀	45	85	6	7	3	-	4·6	4·6	2500
	Gorleston ...	998.5	-6	NNW	4	bc	48	85	6	8	-	-	4·6	4·6	1500
	Cranwell ...	1000.0	-14	NW	2	b	46	85	6	1	-	-	1	1	2500
3	Birmingham ...	1001.1	-16	NW	2	m	44	75 (7 in red over 85)	4	-	4	-	0	4·6	-
	Upper Heyford	1000.6	-16	N	3	z₀	44	86	6	1	-	-	4·6	4·6	1500
4	Ross-on-Wye ...	1000.6	-14	N	2	bc	47	65	8	7	-	1	4·6	4·6	4000
5	Portland Bill...	1000.6	-16	N	3	b	47	85	8	-	-	-	0	0	-
	Plymouth ...	1002.1	-14	NW'W	3	bc	48	65	8	1	-	9	2·3	4·6	2500
	The Lizard ...	1002.2	-10	W'N	3	c	54	65	8	8	7	-	7-8	9	2500
	Scilly (St. Mary's)	1002.4	-18	NW	1	c	51	66	8	8	4	-	4·6	7-8	2500
	Guernsey ...	1001.6	-8	N'W	2	bc	50	65	8	7	-	-	4·6	4·6	2500
6	Pembroke ...	1001.0	-16	SSE	1	bc	50	65 (red, 85 struck)	7	2	4	-	4·6	4·6	2500
7	Holyhead ...	1002.0	-24	E'S	1	c	51	65	8	4	3	4	2·3	7-8	2500
	Chester (Sealand)	1000.7	-22	-	0	z₀	46	75	6	7	-	1	7-8	7-8	2500
8	L'pool (Bidston)	1000.2	-16	-	0	b	46	65	7	7	-	4	1	1	4000
	Manchester	1000.1	-22	-	0	bf	47	85	3	1	-	-	1	1	4000
9	Harrogate ...	1000.0	-10	NNW	1	bc	46	75	8	3	-	-	4·6	4·6	2500
10	Spurn Head ...	998.8	-6	NNW	3	pr₀	48	85	6	3	7	-	4·6	7-8	2500
	Catterick ...	999.6	-20	NNW	1	c	47	75	7	5	-	-	9	9	4000
	Tynemouth ...	1000.8	-14	NW	2	bc	46	85	7	2	-	-	4·6	4·6	2500
11	Inchkeith ...	1000.2	-28	WSW	2	c	45	75	6	5	4	4	4·6	7-8	1500
	Leuchars ...	1000.3	-22	WSW	2	bc	48	55	8	2	3	4	Tr.	2·3	2500
12	Renfrew (Abbotts I.)	999.7	-26	-	0	cf	31	95	3	-	3	9	0	9+	-
	Eskdalemuir ...	999.2	-28	SW'S	2	c	44	65	8	4	-	1	9	9	2500
13A	Tiree ...	996.5	-28	SW'S	5	r₀r₀	45	95	8	6	2	-	4·6	10	1500
13B	Stornoway ...	995.4	-24	S	4	pr₀	47	85	8	8	2	-	9	10	1500
15	Dalwhinnie ...	999.2	-22	W	1	c	40	75	8	4	1	-	2·3	9	2500
	Aberdeen ...	999.0	-20	S'W (red correction)	1	bc	46	65	7	7	-	6	1	2·3	2500
	Wick ...	998.0	-16	SW	2	c	43	95	8	7	7	8	4·6	7-8	2500
16	Lerwick ...	998.7	-10	E	2	pr	42	95	7	9	-	-	7-8	7-8	1500
17	Blacksod Point	1000.5	-12	WNW	6	q	48	75	7	9	-	-	10	10	450
18	Malin Head ...	996.4	-30	S	3	rr	42	95	6	6	2	-	9	10	800
	Aldergrove ...	998.9	-34	S	2	c/r	43	85	6	-	7	-	0	10	-
	Donaghadee ...	999.3	-18	W	1	c	46	85	8	8	3	-	4·6	7-8	2500
19	Birr Castle ...	1000.2	-24	S	1	dd	41	95	6	6	-	-	10	10	1500
20	Valentia Obsy.	1002.8	-14	NWW	6	c	51	65	8	5	-	-	9	9	1500
	Roches Point...	1002.1	-30	W	3	rr	44	95	6	6	-	-	10	10	800

OBSERVATIONS at 18h. G.M.T. 11th November

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)...	999.0	-6	SW'W	1	o	41	95	5	5	-	-	10	10	1500	1	*
Croydon	999.6	-4	WSW	2	m	39	95	4	5	-	-	10	10	450	1	*
S. Farnborough	999.1	-4	WNW	1	bf	36	95	3	5	-	-	1	1	800	1	*
Boscombe Down	999.2	-6	-	0	bc	38	95	6	5	3	-	2·3	4·6	2500	0	
Calshot, S'thmtn	999.3	-8	NNW	1	b	40	95	6	-	4	-	0	1	-	0	0
Dungeness	*	*	NNW	2	m	*	*	4	5	-	*	2·3	2·3	1500	*	1
Lympne	998.7	-2	WNW	3	z₀	38	95	5	5	-	-	1	1	800	1	*
Shoeburyness	998.4	-6	W'N	3	b	39	95	6	-	-	-	0	0	-	1	*
Felixstowe	998.0	-2	WNW	2	m	42	95	4	-	-	-	0	0	-	0	1
Gorleston	997.0	-2	WNW	2	c	45	95	6	8	-	-	9+	9·	1500	1	2
Cranwell	998.8	+2	-	0	pr	42	95	6	9	-	-	9	9	2500	1	*
Birmingham	999.8	-4	NW	1	bf	39	85	3	-	-	-	0	0	-	1	*
Upper Heyford	999.1	-2	NW	2	m	40	95	4	-	1	-	0	2·3	-	1	*
Ross-on-Wye	998.2	-8	NW	1	c	43	75	6	5	-	-	10	10	2500	1	
Portland Bill	998.4	-10	N	3	c	44	85	7	5	-	-	7-8	7-8	2500	0	2
Plymouth	998.3	-16	-	0	c	41	65	7	5	3	-	4·6	9	2500	1	0
The Lizard	998.5	-16	WNW	3	pr₀	47	75	7	5	-	-	10	10	2500	1	2
Scilly (St. Mary's)	999.0	-12	NNE	2	r₀r	43	95	6	6	-	-	10	10	1500	1	1
Guernsey	999.4	-10	-	0	bc	42	85	8	7	-	-	4·6	4·6	2500	0	2
Pembroke	997.7	-14	W	3	c	48	75	7	8	5	-	4·6	7-8	2500	1	2
Holyhead	999.8	-10	S'E	3	ir₀	45	85	6	6	2	-	9	10	2500	1	0
Chester (Sealand)	999.2	-4	-	0	c	42	85	5	5	3	-	7-8	9+	2500	1	*
L'pool (Bidston)	998.8	-4	-	0	m	43	75	4	5	-	1	2·3	2·3	800	0	
Manchester	999.0	-2	ENE	1	m	42	85	4	5	-	-	9+	9+	2500	1	*
Harrogate	999.3	0	-	0	o	41	85	5	5	-	-	10	10	2500	1	*
Spurn Head	998.0	0	WNW	3	c/pr	44	95	7	3	7	-	4·6	7-8	2500	1	2
Catterick	998.6	-2	-	0	c	43	85	7	5	-	-	10	10	4000	1	*
Tynemouth	999.0	0	NW	2	c	45	85	6	9	-	-	9	9	1500	1	2
Inchkeith	999.2	0	SW	1	z₀	43	85	5	5	-	-	4·6	4·6	1500	0	0
Leuchars	999.2	-2	W	1	fg	34	95	6	-	-	1	0	2·3	-	1	*
Renfrew (Abbotts I.)	998.3	-6	E'N	1	cf-	37	95	3	5	-	-	10	10	4000	1	*
Eskdalemuir	999.4	0	-	0	b	30	95	8	-	4	1	0	1	-	1	*
Tiree	996.4	+6	SSW	2	c/r	44	95	8	6	2	-	9	10	1500	1	2
Stornoway	994.5	+2	S	4	c	46	95	7	8	6	-	7-8	10	1600	1	2
Dalwhinnie	998.4	0	S	2	c	37	85	6	3	4	-	4·6	10	1500	0	*
Aberdeen	998.3	0	S'W	2	m	39	75	4	7	-	-	Tr.	Tr.	2500	1	1
Wick	997.2	-4	S	3	c	43	95	8	8	1	2	4·6	7-8	2500	1	2
Lerwick	998.4	-2	E	4	r₀r₀	42	95	7	9	1	-	4·6	7-8	800	1	*
Blacksod Point	1000.6	+4	NW	5	q	46	75	8	9	-	-	7-8	7-8	800	1	4
Malin Head	996.5	+18	N'W	3	c/r	46	85	6	6	2	-	9	10	800	1	1
Aldergrove	998.0	-10	S	3	r₀r₀	39	95	6	6	-	-	10	10	800	1	*
Donaghadee	997.3	-4	W	2	pr₀	41	85	7	5	-	-	9	9	1500	1	1
Birr Castle	999.5	-2	NW	2	r₀r₀	41	96	8	6	2	-	7-8	10	2500	1	*
Valentia Obsy.	1002.7	+2	NW	6	c/pr₀	48	65	8	8	-	-	7-8	7-8	1500	1	4
Roches Point	999.7	-6	N	4	bc	46	85	8	3	-	-	4·6	4·6	2500	1	4

PAST 24 HOURS.

Stations	Weather 7h.—13h. 11th (37)	13h.—18h. 11th (38)	18h. 11th to 1h. 12th (39)	1h.—7h. 12th (40)
London (Kew)	ofom₀	om₀	om₀Fw	oFwcm₀
Croydon	off	ofcm	omfFm	cmoffmcm
S. Farnborough	bfom₀m	cm₀bf	bfFc	~~sff~~ FF
Boscombe Down	ofbmc	cbcm₀	bcbm₀	bcmx
Calshot, S'thmtn	bccmbcm	bm₀	bm₀bffe	bffcbcm
Dungeness	bc	bc		f
Lympne	cffb,cm₀	cbm₀	bmfoFe	ofebfcom
Shoeburyness	ofombcm	cm₀bcm	bm₀bcm₀	cm₀cr₀
Felixstowe	ofcmbcz₀	bcz₀bm	bmwcpr	crr₀c
Gorleston	cz₀bc	bccr₀c	cor₀r₀	orr
Cranwell	cfbm₀	b,cm₀	cbm₀wx	bm₀wfe
Birmingham	cbcm	fbcb	bf	bfmx
Upper Heyford	cbcm	bcbm	bbccbm	bo Fe
Ross-on-Wye	cbbc	bcc	cbm₀w bc	bcbx
Portland Bill	bc	bbc	bc	bcz₀
Plymouth	bmbc	bcc	cr₀r₀c	cb
The Lizard	bcpr₀	cpr₀o	oprrr	crrc
Scilly (St. Mary's)	cbcc	cr₀r₀	rrccr	cpq
Guernsey	bc	bc	bcc	cPRc
Pembroke	cbc	bccpr₀c	crrc	cpr₀c
Holyhead	bcc	c	r₀r₀c	cbc
Chester (Sealand)	m₀cbcz₀	bccm₀	bcmbf	bbcffx
L'pool (Bidston)	mbcb	bbcm	mbcf	fbcxF
Manchester	cfxbf	bfcm₀	bFex	oFex
Harrogate	cb	bo	ob	cb
Spurn Head	cpr₀	prc	prc	cpr
Catterick	c	c	cbc	bcw
Tynemouth	bcpbc	bcc	cobc	bc
Inchkeith	cz₀z₀	cz₀	bcz₀x	bccz₀z₀
Leuchars	bxvbc	bybcx	bxm₀	bxm₀
Renfrew (Abbotts I.)	bccxff	xcff	cfm	or₀r₀m
Eskdalemuir	bxc	cbc	bx	bx
Tiree	cr	crr₀R	cir₀	bcx
Stornoway	cpr₀	cpr₀	cpr₀c	b
Dalwhinnie	c	c	c	c
Aberdeen	bz₀bc	bczbzw	bzw	bxm₀
Wick	bc	bcc	bcW	bc
Lerwick	cpr₀	cprR,r₀r₀	or₀r₀rcpr	cpr
Blacksod Point	PRq	PRcq	PRcq	prcq
Malin Head	cr₀z	cr₀r	cpr₀	c
Aldergrove	ofefec	cr₀r₀	orr₀r₀	or₀r
Donaghadee	bcc	cpr	cic	cic
Birr Castle	codd	drrr₀	cir₀	cir₀bcx
Valentia Obsy.	cwor₀r₀c	cphqpr₀c	pr₀prq	prq
Roches Point	corr	orbc	abbc	cbbc

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. gale.

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.

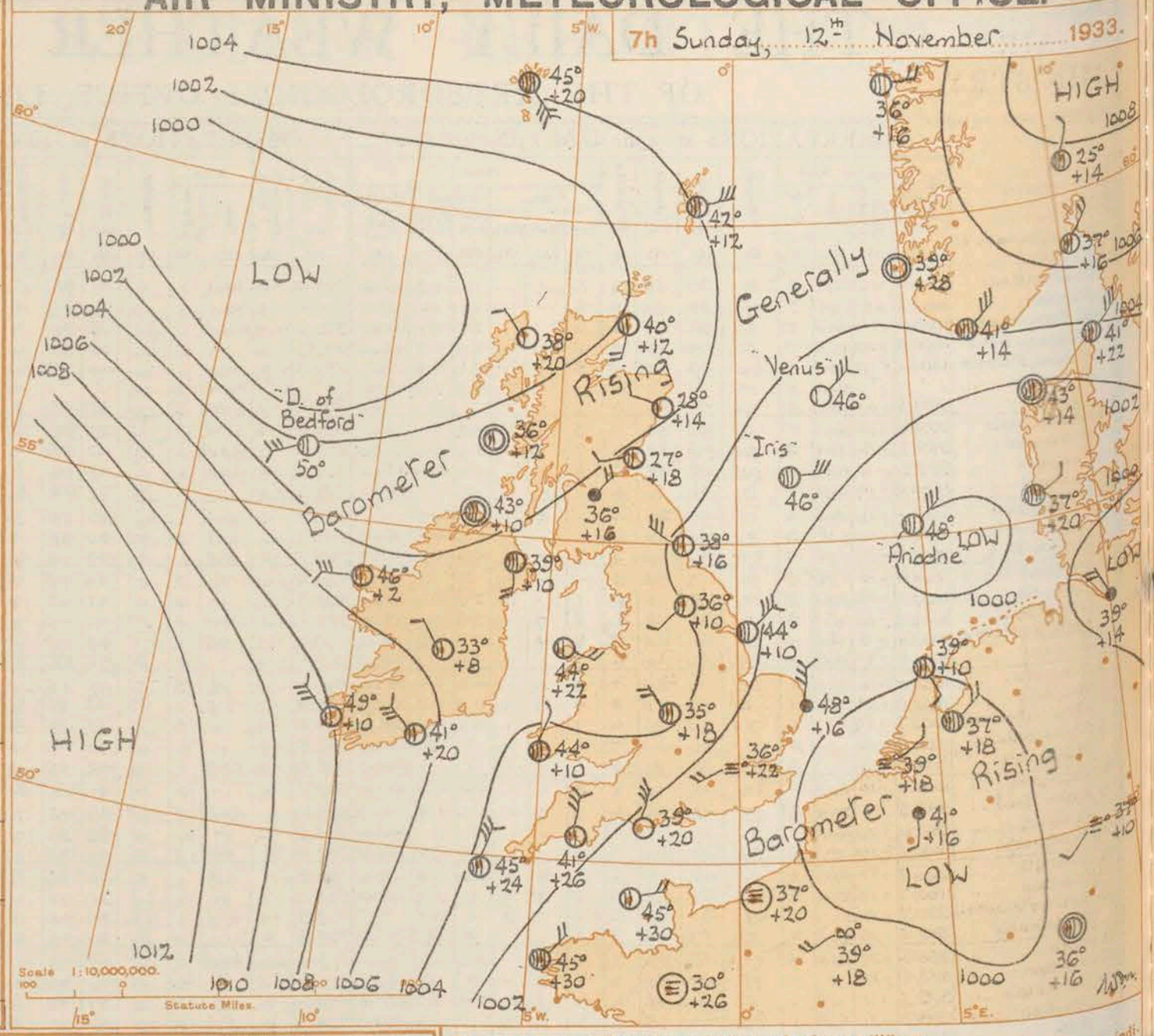
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for 11th November 1933

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.	om	om	37	41	0·3	-	0.0
	Bournemouth	b	b bm	34	48	-	-	6·0
	Ventnor ...	b3	b3	36	45	-	-	7.6
	Southsea ...	bcc	b bm	36	45	0.4	-	5.4
	Bognor Regis	bcc	cbc	37	44	0.3	-	4.7
	Littlehampton	bbc	bc	38	45	0·3	-	4·6
	Worthing ...	cbcc	cbcc	38	50	0·3	-	2·9
	Brighton ...	cbcb	c	38	42	0·6	-	3.6
	Eastbourne†	b	b	37	45	0.1	-	6·9
	Hastings‡ ...	ocbc	bccom	38	49	0.4	-	3·8
	Folkestone ...	bcmb	b	38	44	-	-	6·8
	Dover... ...	mcoc	mbc	39	44	-	-	5·8
	Deal	o	oco	38	44	-	-	0.8
	Ramsgate ...	c	bcc	39	46	-	-	1·8
	Margate ...	c	c	41	46	-	-	0.0
2	Southend ...	ocf	cbm	36	42	Trace	-	0·1
	Maldon ...	mocb	bcc	37	45	-	-	2·8
	Clacton-on-Sea	comcbc	bc	37	47	-	-	3.5
	Dovercourt ...	oc	bc	36	48	-	-	4.0
	Lowestoft ...	d.mbc	bcidc	36	50	1	0·3	5·0
	Skegness ...	bc	bc	37	49	0·6	-	5·3
	Mablethorpe	cbcm.	bccrm.	35	44	3	0.5	5.9
	Cleethorpes ...	cmb	bcm	38	49	1	-	4·1
3	Leamington S.	bcc	cm	29	47	0·5	-	3.5
4	Cheltenham†	cfpbc	bccf	35	44	5	Trace	5·2
5	Bath	b	bbcc	32	47	Trace	-	5·8
	Weymouth ...	b	b	35	50	1	-	6.9
	Jersey ...	rcbc	bc	46	53	0.5	-	6.0
	Torquay ...	bw3.bbc	bcm.	36	51	Trace	-	6.4
	Penzance ...	cpcb	bccpc	45	53	1	0·3	1·4
	St. Ives ...	c	c	47	50	0.5	-	0·3
	Bude	pbc	bcc	39	52	1	-	6·2
	Ilfracombe ...	b	bbc3	45	50	-	-	6·2
6	Aberystwyth	xbc	bcc	34	49	1	-	5·2
7	Llandudno ...	bc	bccw	38	51	1	-	3.7
	Colwyn Bay...	bcbbc	bcb	40	49	3	-	4·2
	Rhyl	cbcb	bbc	33	49	-	-	4·1
8	Wallasey ...	bcb	bbc	36	49	Trace	-	5.7
	Southport‖ ...	b	bbccm	33	48	-	-	6·0
	Blackpool ...	bc	bcc	35	48	-	-	5.5
	Morecambe ...	cbccb	bbcc	36	49	-	-	5.7
9	Ilkley... ...	bcc	c	31	47	0.5	-	1·5
10	Berwick-on-T.	c	c	37	46	9	-	2·5
11	Dunbar ...	bc	bc	35	49	-	-	6·8
12	Troon... ...	bcc	o	34	46	-	-	1·3
	Douglas ...	xbccbcbcirc		34	49	0.5	4	2·8

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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 Nov., 1933.

Districts.	Forecasts
1. S.E. England 2. E. England... 3. E. Midlands	Wind northerly, light or moderate; mainly cloudy, occasional drizzle at first, bright intervals later; Local mist or fog night and morning; cold with local frost at night.
4. W. Midlands 5. S.W. England 6. South Wales	Light variable wind, local showers; bright intervals; mist or fag at night and early morning; cold with frost at night.
7. North Wales 8. N.W. England	Moderate northerly wind, local showers; bright periods; rather cold with local frost at night.
9. N Midlands 10. N.E England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	As 4.
13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland	Light variable wind, bright intervals; local wintry showers; cold, with frost at night.
15. N.E. Scotland 16. Orkneys and Shetlands.	Light or moderate southerly wind, bright intervals; local wintry showers; cold.
17. N.W. Ireland	Moderate northwest to west wind; bright intervals, showers; rather cold.
18. N.E. Ireland	As 4.
19. S.E. Ireland 20. S.W. Ireland	Moderate northwest wind, bright intervals, local showers at first; moderate temperature.

GENERAL INFERENCE.

Depressions centred off Northwest Scotland and over Belgium are filling up while pressure is high to the southwest. In southeastern England weather will be mainly cloudy with occasional drizzle at first, elsewhere variable cloud and wintry showers will occur.

FURTHER OUTLOOK.

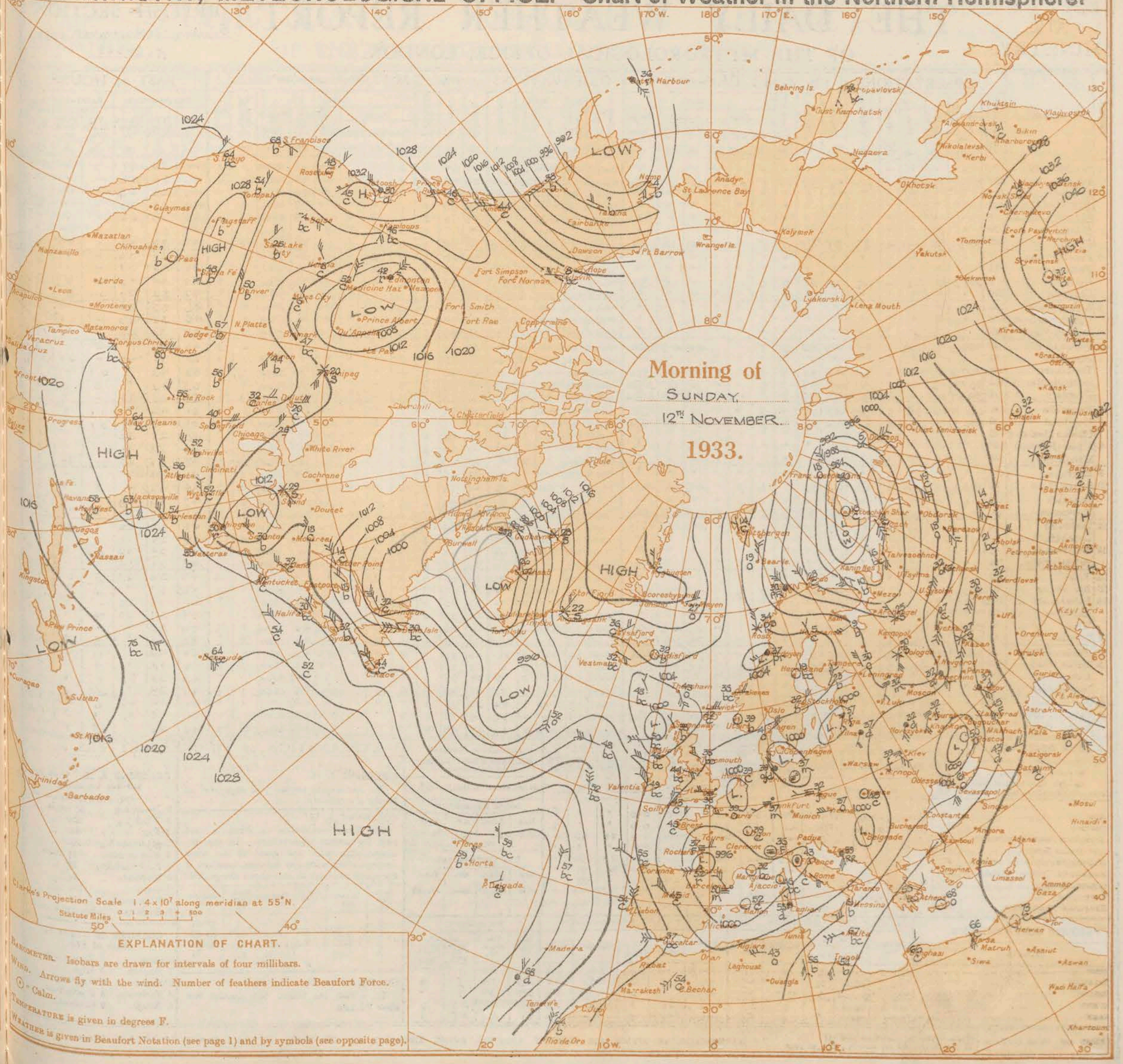
Rather cold with local showers in most districts.

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.

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, 12th November 1933.

No. 26.288

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

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	999·6	+2	W'N	1	cf-	38	95	4	5	-	-	10	10	450
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	993·1	-2	NNW	4	F	35	95	0	5	-	-	10	10	<150
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	997·3	+2	N'E	4	ur	45	95	6	6	-	-	10	10	1500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	999·6	+6	NNE	3	bc	42	95	8	5	-	-	4-6	4-6	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	997·6	-2	ENE	3	ur	45	85	8	6	-	-	10	10	1500
	Scilly (St. Mary's)	163	997·3	+6	N	7	c/r	47	85	7	8	-	-	10	10	2500
	Guernsey	175	993·1	0	-	0	c	42	75	7	5	-	-	7-8	7-8	2500
6	Pembroke	142	1000·4	+10	SE	1	ur	43	95	7	3	-	-	10	10	1500
7	Holyhead	26	1000·9	+10	WSW	1	c	44	95	7	5	-	-	9+	9+	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	999·8	+2	NNW	4	c	44	95	7	3	7	-	4-6	7-8	4000
	Catterick	176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	100	1000·7	+4	WNW	1	bc	42	85	6	5	-	-	2-3	2-3	800
11	Inchkeith	190	1001·3	+12	SW	1	3	38	95	5	5	-	-	4-6	4-6	1500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotsinch)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	993·0	+13	W	1	c	44	95	7	8	6	-	4-6	7-8	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	999·1	+8	SSW	2	bc	44	95	8	5	1	-	2-3	4-6	2500
16	Lerwick	54	1001·8	+18	SE	2	c	42	85	7	8	-	-	7-8	7-8	1500
17	Blacksod Point	18	1004·1	+12	NW	6	q	45	95	7	9	-	-	7-8	7-8	800
18	Malin Head	52	1000·6	+12	N'W	3	c	43	75	7	3	8	-	4-6	7-8	1500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1006·1	+26	NW	6	bc/pr	45	95	8	9	-	-	4-6	4-6	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations	Bar. 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)	1002·3	+2.6	NNW	2	c	40	95	5	5	-	-	9+	9+	2500	1	*
Croydon	1001·6	+2.2	W'S	2	cm	36	95	4	5	✓	-	9+	9+	800	1	*
S. Farnborough	1002·6	+2.0	WNW	1	cf-	34	95	3	5	-	-	9+	9+	1500	1	*
Boscombe Down	1002·9	+2.2	NNW	2	cm	32	95	4	5	-	-	7-8	7-8	1500	0	*
Calshot (S'thmtn)	1002·6	+2.2	NW'N	3	c	36	75	5	5	7	-	4-6	7-8	2500	4	1
Dungeness	*	*	NW	2	cm	*	*	4	5	-	*	9	9	1500	*	1
Lympne	1000·1	+2.0	NNW	2	cm	40	95	4	5	-	-	10	10	450	1	*
Shoeburyness	1000·4	+1.4	NNW	3	ur	42	95	6	5	2	-	9	9+	800	1	*
Felixstowe	1000·5	+2.2	N'W	3	c/r	43	95	8	5	2	-	7-8	10	1500	1	1
Gorleston	1000·3	+1.6	N'E	4	ur	48	85	6	6	-	-	10	10	1500	1	3
Cranwell	1003·3	+2.2	NW	3	bcf+	34	95	2	5	-	-	2-3	2-3	4000	1	*
Birmingham	1004·6	+1.8	NW	2	c	35	95	4	5	-	-	7-8	7-8	2500	1	*
Upper Heyford	1003·4	+2.0	NNE	4	f	35	95	2	5	-	-	10	10	<150	1	*
Ross-on-Wye	1004·1	+1.4	E	1	bc	32	95	6	5	-	-	2-3	2-3	1500	1	*
Portland Bill	1002·0	+2.0	NNE	3	b	39	95	6	-	-	-	0	0	-	0	3
Plymouth	1003·2	+2.6	N'E	4	bc	41	75	8	5	-	-	1	1	5700	1	0
The Lizard	1003·1	+2.0	NNW	3	c	43	85	8	4	1	-	7-8	9+	2500	1	1
Scilly (St. Mary's)	1004·2	+2.4	NNE	4	c/pr	45	95	7	8	-	-	9+	9+	1500	1	3
Guernsey	1001·5	+3.0	E	2	bc	46	85	7	8	-	-	4-6	4-6	1500	2	1
Pembroke	1003·0	+1.0	NNE	1	c	44	95	7	3	-	-	7-8	7-8	1500	1	1
Holyhead	1004·5	+2.2	ESE	2	bc	44	85	7	2	3	-	4-6	4-6	2500	1	0
Chester (Sealand)	1004·5	+1.6	SSE	1	bf	29	95	3	5	-	-	ur	ur	4000	4	*
L'pool (Bidston)	1004·5	+1.4	-	0	bf+	39	95	2	5	-	-	2-3	2-3	450	0	*
Manchester	1004·4	+2.0	-	0	-F	28	95	1	5	-	-	10	10	<150	4	*
Harrogate	1004·4	+1.0	SW	1	bc	36	95	6	5	-	-	2-3	2-3	2500	1	*
Spurn Head	1001·8	+1.0	NE	4	c	44	85	8	3	7	-	2-3	7-8	4000	0	2
Catterick	1004·5	+1.8	W'N	2	bc	34	95	6	5	-	-	2-3	2-3	4000	1	*
Tynemouth	1005·9	+1.6	WNW	2	bc	38	85	7	2	-	-	4-6	4-6	2500	1	1
Inchkeith	1004·2	+1.8	SW	1	3	38	95	5	5	3	-	4-6	7-8	1500	0	1
Leuchars	1004·6	+1.8	W	1	bcf	27	95	5	-	3	1	0	2-3	-	4	*
Renfrew (Abbotsinch)	1004·1	+1.6	NE	2	ur	36	95	4	5	-	-	10	10	800	1	*
Eskdalemuir	1006·4	+1.4	-	0	bc	22	95	9	5	-	1	4-6	4-6	4000	4	*
Tiree	1002·5	+1.2	-	0	bc	36	95	9	5	7	9	1	4-6	2500	1	4
Stornoway	1001·8	+2.0	NW	1	b	38	95	7	1	-	-	Tr	Tr	2500	1	0
Dalwhinnie	*	+2.0	-	0	c	35	95	6	4	1	-	7-8	10	800	1	*
Aberdeen	1003·7	+1.4	WNW	1	bc	28	95	6	7	-	-	Tr	Tr	2500	1	1
Wick	1002·0	+1.2	SSW	2	bc	40	95	8	7	4	-	2-3	4-6	2500	1	2
Lerwick	1004·0	+1.3	E	3	c/pr	42	75	8	9	8	-	4-6	7-8	1500	1	*
Blacksod Point	1005·1	+2	W	4	bc	46	85	7	9	-	-	4-6	4-6	800	1	4
Malin Head	1005·1	+1.0	-	0	c	43	95	7	8	-	-	7-8	7-8	1500	2	2
Aldergrove	1004·1	+1.0	S'E	2	c	39	95	6	5	3	-	9	9+	4000	1	*
Donaghadee	1005·7	+1.6	W	2	c	41	95	7	5	3	-	4-6	7-8	1500	1	1
Birr Castle	1005·5	+1.8	NW	1	bc	33	95	8	-	4	-	0	2-3	-	1	*
Valentia Obsy.†	1008·5	+1.0	NW	4	bc	49	75	8	3	-	-	4-6	4-6	2500	1	-
Roches Point	1007·0	+2.0	NW	4	bc	41	85	8	3	-	-	2-3	2-3	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 11th Hrs. (36)
London (Kew)	44	34	27	-	Tr	0·0
Croydon	40	36	32	-	-	0·0
S. Farnborough	42	28	23	-	Tr	0·2
Boscombe Down	44	31	28	-	-	6·7
Calshot (S'thmtn)	46	33	26	-	Tr	4·7
Dungeness	47	31	*	-	Tr	*
Lympne	41	32	32	-	0·1	2·5
Shoeburyness	44	36	36	-	1	1·5
Felixstowe	46	40	37	-	1	3·4
Gorleston	50	44	43	2	8	3·5
Cranwell	47	32	29	0·1	0·1	6·6
Birmingham	46	35	22	-	-	1·2
Upper Heyford	45	32	29	-	0·1	*
Ross-on-Wye	48	30	20	-	-	4·6
Portland Bill	49	38	*	-	-	*
Plymouth	53	41	36	-	0·1	6·9
The Lizard	55	42	*	0·1	5	*
Scilly (St. Mary's)	53	42	*	3	8	3·1
Guernsey	50	38	33	-	2	5·6
Pembroke	51	42	*	0·1	17	3·5
Holyhead	51	43	41	0·1	4	4·0
Chester (Sealand)	50	28	22	-	-	1·4
L'pool (Bidston)	46	38	31	-	-	4·6
Manchester	48	25	23	0·1	Tr	*
Harrogate	46	35	27	-	-	1·9
Spurn Head	48	42	*	1	4	5·1
Catterick	47	34	29	-	-	2·9
Tynemouth	47	37	34	1	-	*
Inchkeith	47	36	25	-	-	4·2
Leuchars	48	26	17	-	-	5·8
Renfrew (Abbotsinch)	37	34	32	0·1	2	0·0
Eskdalemuir	45	21	14	-	-	5·0
Tiree	47	36	25	5	0·1	0·0
Stornoway	47	37	*	1	0·1	0·0
Dalwhinnie	41	34	28	-	-	2·8
Aberdeen	47	27	23	Tr	-	5·1
Wick	44	32	*	-	-	*
Lerwick	43	40	*	5	5	0·0
Blacksod Point	50	42	*	11	2	*
Malin Head	48	42	*	4	1	0·0
Aldergrove	43	38	35	1	6	0·8
Donaghadee	47	39	*	0·1	2	*
Birr Castle	41	32	23	6	0·5	0·0
Valentia Obsy.†	51	45	41	3	2	1·2
Roches Point	48	40	*	5	1	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich & Hampstead 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	ofcm	ocm	ofncm	41	34	27	-	Tr	0·0	*	*	5
Croydon	217	off	ofcm	offcm	40	36	32	-	-	0·0	*	*	4
Greenwich (Royal Observatory)	149	of	of	ofcmr	42	37	26	-	0·3	0·0	88	92	4
City (Bushill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park)	27	*	*	*	43	36	30	0·6		0·0	84	90	*
‡Regents Pk. (Botanic Gardens)	168	*	*	*	42	37	32	0·5		0·0	91	91	*
Camden Square	110	o	oc	*	41	37	32	-	0·5	*	*	93	*
Kensington	80	comw	ocmw	*	42	36	29	Tr	0·6	0·0	At 18h. 87	93	*
Hampstead Observatory	450	of	of	ofd	40	34	28	-	0·1	0·0		97	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 12th

South Kensington Max.	Time.	Min.	Time.	Kew Observatory Max.	Time.	Min.	Time.
0·8	23h. 11th.	<0·3	8h. 11th. 6-7h. 12th	0·6	8h. 11th	0·1	7h. 12th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 11th November Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Th. G.M.T. 12th November 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	999·0	WNW	2	o	39	1000·3	W	2	oz	39	41	34	-	-
Brussels	996·2	SSW	2	o	43	998·4	S	1	dd	41	43	39	5	6
Berlin	997·7	SW'W	3	ur	37	999·9	-	0	c/f	36	39	34	1	-
Zürich	1001·2	SSW	1	c	37	1000·3	SE	1	cz	39	41	*	0·1	2
Rome	999·1	SW	3	c	55	1000·0	SE	3	c	48	61	48	0·5	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	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.

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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. ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 13th November 1933.

No. 26,289

OBSERVATIONS at 13h. G.M.T. 12th 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)...	1005·2	+10	N'W	2	c	47	75	5	-	3	1	0	7-8	-
	Croydon ...	1004·9	+12	W	3	m	45	85	4	5	2	-	9	9+	1500
	S. Farnborough	1005·2	+8	N'W	3	bc	48	75	6	2	3	9	Tr.	2-3	4000
	Boscombe Down	1005·7	+8	NNW	2	bc	44	85	5	8	-	-	2-3	2-3	1500
	Calshot, S'thmtn	1005·1	0	NNW	4	bc	48	75	6	5	3	-	1	4-6	2500
	Dungeness ...	*	*	N	2	.c	*	*	6	4	-	*	9+	9+	1500
	Lympne ...	1003·2	+10	N	4	ido	45	85	7	6	1	-	9+	10	1500
2	Shoeburyness	1003·8	+18	N'W	3	c	48	75	7	5	7	-	4-6	9	1500
	Felixstowe ...	1003·4	+10	N'W	3	iro	49	75	7	5	1	-	7-8	9+	1500
	Gorleston ...	1002·6	+12	-	0	iro	48	95	6	8	-	-	7-8	7-8	1500
	Cranwell ...	1006·3	+10	NW	2	zo	45	85	6	7	-	-	9	9	4000
3	Birmingham ...	1006·9	+12	N	2	bc	45	75	5	2	-	-	4-6	4-6	2500
	Upper Heyford	1006·0	+8	NNE	3	zo	44	85	5	5	-	-	7-8	7-8	4000
4	Ross-on-Wye ...	1006·7	+10	W	1	zo	47	75	5	1	-	-	Tr.	Tr.	4000
5	Portland Bill...	1005·6	+10	NNE	3	b	49	75	7	-	-	-	0	0	-
	Plymouth ...	1006·8	+10	WNW	1	rf	45	75	3	5	-	-	10	10	7200
	The Lizard ...	1006·9	+4	NW	3	bc	49	85	8	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	1008·1	+10	N'W	4	bc	50	75	8	4	-	-	4-6	4-6	2500
	Guernsey ...	1005·8	+18	NEN	2	bc	51	65	7	7	-	-	4-6	4-6	2500
6	Pembroke ...	1006·0	+8	ENE	2	zo	45	85	6	7	4	-	2-3	4-6	4000
7	Holyhead ...	1007·9	+12	SW'W	1	c	52	65	7	5	3	-	4-6	7-8	4000
	Chester (Sealand)	1007·5	+6	-	0	m	41	85	4	-	-	1	0	Tr.	-
8	L'pool (Bidston)	1008·0	+8	-	0	bF	41	95	1	-	-	-	0	0	-
	Manchester	1007·2	+10	-	0	F-	29	95	0	5	-	-	10	10	<150
9	Harrogate ...	1006·9	+6	NE	1	b	45	75	8	2	-	-	Tr.	Tr.	4000
10	Spurn Head ...	1005·4	+6	N	3	c	47	75	8	5	7	-	4-6	9	4000
	Catterick ...	1006·7	+8	N	1	b	47	75	7	1	-	-	1	1	4000
	Tynemouth ...	1006·6	+12	W	2	bc	49	55	6	2	-	-	2-3	2-3	2500
11	Inchkeith ...	1007·2	+6	SW	1	zo	41	95	6	5	-	-	10	10	1500
	Leuchars ...	1007·3	+10	W	1	c	40	85	5	5	-	-	7-8	7-8	4000
12	Renfrew (Abbotts I.)	1006·8	+12	-	0	cf	41	95	3	5	-	-	9+	9+	2500
	Eskdalemuir ...	1007·4	+12	-	0	iro	37	95	8	6	7	-	Tr.	9+	1500
13a	Tiree ...	1005·6	+10	S	1	b	53	65	8	2F	-	3	1	1	2500
13a	Stornoway ...	1005·1	+10	WSW	1	bc	49	75	8	7	7	-	2-3	2-3	2500
15	Dalwhinnie ...	1005·8	+12	N	1	c	40	85	8	3	2	-	7-8	10	1500
	Aberdeen ...	1006·5	+12	SW	1	b/f	47	75	5	-	3	-	0	Tr.	-
	Wick ...	1005·2	+16	SSW	2	c	46	85	8	8	1	-	4-6	7-8	1500
16	Lerwick ...	1006·9	+10	E'S	2	pr	44	85	9	8	4	-	7-8	9	1500
17	Blacksod Point	1005·7	+2	WNW	4	c	51	85	8	9	-	-	7-8	7-8	800
18	Malin Head ...	1005·2	+6	S	2	bc	49	85	7	2	3	-	1	2-3	1500
	Aldergrove ...	1006·7	+6	S	1	b	47	75	7	2	3	-	Tr.	Tr.	2500
	Donaghadee ...	1006·2	+16	W	1	c	48	85	7	8	4	-	4-6	7-8	2500
19	Birr Castle ...	1007·5	+2	WNW	1	c	50	75	8	7	-	-	9	9	2500
20	Valentia Obsy.	1009·7	-2	WNW	4	bc/pr	52	75	8	8	-	9	4-6	4-6	1500
	Roches Point...	1008·9	+6	N	3	bc	51	75	8	3	-	-	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 12th 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)...	1007·5	+12	NNW	2	c	45	75	5	5	-	-	9	9	2500	1	*
	Croydon ...	1007·0	+14	NNW	3	zo	46	65	5	7	-	-	7-8	7-8	4000	1	*
	S. Farnborough	1008·0	+18	NW	1	b	40	75	6	4	-	-	Tr.	Tr.	2500	1	*
	Boscombe Down	1008·2	+18	N	1	c	41	85	7	5	-	-	9+	9+	1500	0	
	Calshot, S'thmtn	1007·6	+18	NNW	3	bc	45	75	7	5	-	-	2-3	2-3	2500	0	0
	Dungeness ...	*		NNW	2	dr	*	*	4	5	-	*	10	10	1500	*	2
	Lympne ...	1006·9	+14	NNW	2	c/r	43	95	6	5	2	-	9+	10	1500	1	*
2	Shoeburyness	1006·3	+18	NNW	3	bc	44	85	7	5	7	-	2-3	4-6	1500	1	*
	Felixstowe ...	1005·9	+14	NW	2	bc	~~35~~ 44	95	7	5	-	-	2-3	2-3	4000	1	1
	Gorleston ...	1005·7	+14	E'N	1	bc	48	95	7	-	2	-	0	4-6	-	1	2
	Cranwell ...	1008·3	0	NW	2	b	38	95	7	4	-	-	1	1	5700	1	
3	Birmingham ...	1008·4	+12	NW	1	m	43	85	4	2	3	-	4-6	9	2500	1	*
	Upper Heyford	1008·5	+14	N	1	zo	41	85	6	5	-	-	9+	9+	2500	1	*
4	Ross-on-Wye ...	1008·8	+10	WSW	1	bf	38	85	3	-	-	-	0	0	-	1	
5	Portland Bill...	1008·5	+20	N'E	3	bc	44	95	6	5	-	-	4-6	4-6	1500	0	3
	Plymouth ...	1008·8	+14	NNE	2	zo	42	85	6	5	-	-	4-6	4-6	7200	1	0
	The Lizard ...	1008·8	+10	NW	3	c	48	75	8	8	6	-	4-6	7-8	2500	1	3
	Scilly (St. Mary's)	1009·4	+10	NW'N	3	bc	48	75	8	4	-	-	2-3	2-3	4000	1	2
	Guernsey ...	1008·0	+12	N'E	1	bc	46	65	9	7	-	-	4-6	4-6	2500	0	1
6	Pembroke ...	1008·2	+10	-	0	bc	45	85	7	5	4	-	2-3	2-3	4000	0	1
7	Holyhead ...	1009·2	+14	SW'S	2	c	47	85	6	5	-	-	9+	9+	4000	1	0
	Chester (Sealand)	1009·0	+12	SSE	1	F	31	95	0	5	-	-	10	10	<150	1	*
8	L'pool (Bidston)	1009·1	+10	ESE	1	bcf	41	85	3	5	-	-	2-3	2-3	220	0	
	Manchester	1008·8	+14	-	0	F	27	95	0	5	-	-	10	10	<150	1	*
9	Harrogate ...	1008·6	+10	SW	1	b	38	95	7	-	-	-	0	0	-	1	*
10	Spurn Head ...	1007·0	+6	NNW	3	bc	43	95	7	-	-	-	0	0	-	0	2
	Catterick ...	1008·4	+12	W	1	m	34	95	4	-	-	-	0	0	-	0	*
	Tynemouth ...	1007·3	+8	W	2	bc	45	75	6	4	-	-	4-6	4-6	4000	1	1
11	Inchkeith ...	1007·8	+2	SW	1	c	41	95	7	5	-	-	10	10	1500	1	1
	Leuchars ...	1008·1	+6	-	0	c	38	95	5	5	-	-	9+	9+	2500	1	*
12	Renfrew (Abbotts I.)	1007·9	+8	NE'E	1	of	38	95	3	5	-	-	10	10	4000	1	*
	Eskdalemuir ...	1008·3	+8	-	0	o	37	95	7	5	-	-	10	10	2500	1	
13a	Tiree ...	1006·7	+10	S	1	b	39	95	9	2	-	-	1	1	2500	0	4
13a	Stornoway ...	1006·0	+4	-	0	bc	42	95	8	5	-	-	2-3	2-3	1500	1	0
15	Dalwhinnie ...	1008·5	+4	SE	1	bc	38	95	8	4	-	3	4-6	4-6	2500	0	*
	Aberdeen ...	1007·6	+8	WNW	1	m	34	95	4	5	-	-	Tr.	Tr.	4000	1	1
	Wick ...	1005·6	+4	W	1	c	42	95	8	8	1	-	7-8	10	1500	1	2
16	Lerwick ...	1007·4	+6	ESE	2	pr	44	95	7	8	-	-	9+	9+	800	1	*
17	Blacksod Point	1006·4	+4	WNW	3	bc	49	95	8	9	-	-	4-6	4-6	1500	1	3
18	Malin Head ...	1005·6	+4	S	1	b	43	95	7	5	-	-	Tr.	Tr.	1500	1	2
	Aldergrove ...	1007·5	+8	SE	3	b	39	95	6	5	-	-	Tr.	Tr.	4000	1	
	Donaghadee ...	1007·6	+8	W	1	b	42	85	7	-	-	-	0	0	-	0	0
19	Birr Castle ...	1007·0	+6	WNW	1	c	47	85	8	7	-	-	9	9	2500	1	*
20	Valentia Obsy.	1010·0	+4	WNW	3	c/pr	50	85	8	9	-	-	7-8	7-8	1500	1	3
	Roches Point...	1009·6	+6	NW	3	bc	47	95	8	3	-	-	2-3	2-3	2500	0	3

PAST 24 HOURS. WEATHER.

District	Stations	7h.—13h. 12d. (37)	13h.—18h. 12d. (38)	18h. 12th to 1h. 13d. (39)	1h.—7h. 13d. (40)
1	London (Kew)...	ciro m	bc cmo	cmob	bcmx
	Croydon ...	of roro cm	cm	bcbmo	bbccmow
	S. Farnborough	cfro bbc	bcc bcb	b-cmox	cbc xf
	Boscombe Down	bcmiFem	bbcmoc	bcbfx	bFx
	Calshot, S'thmtn	bc mo	bc mo	bcbmo	bcxmcx
	Dungeness ...	o	d		bc
	Lympne ...	odd	cdoorr	cbm	bcmc
2	Shoeburyness	cmoiroc	cb	bc	bcmo
	Felixstowe ...	croro	crorocbc	bc bcrr	cromo
	Gorleston ...	ociro	cirmo	coroc	c
	Cranwell ...	bfec	cmob	bwf	bfex
3	Birmingham ...	cbc	bcc	cbm	bx
	Upper Heyford	cf bcc	cbbccw	cbm	bFex
4	Ross-on-Wye ...	cmobz	bzobcbmf	bfx F	bFxcF
5	Portland Bill...	b	bbczo	bczo	bcczo
	Plymouth ...	bzo cfiro	cfirobcm	bcmobf	bxcmo
	The Lizard ...	cprbc	bcprc	cprbc	bcc
	Scilly (St. Mary's)	cpq bc	bc	bcpo	bccw
	Guernsey ...	bc	bcv	bc	bcc
6	Pembroke ...	cprobcm	bcmbc	bbcw	bccPRbc
7	Holyhead ...	bcc	cbc	cbcmo	Rc
	Chester (Sealand)	bFxfz	bmf F	FFxc	fcxm
8	L'pool (Bidston)	xbFeF	b bF bf	FF	mcbcx
	Manchester	oFex	oFex	oFex	oFex
9	Harrogate ...	bc b	b	b	bbcx
10	Spurn Head ...	bc	cbc	bcw	bcf
	Catterick ...	bcmob	mobmw	bmox	bmoxf
	Tynemouth ...	bcm	bcmobc	bcff	bcffbc
11	Inchkeith ...	cirozozo	irozoc	coffzw	cifzozow
	Leuchars ...	bxczo	cmo	cmodobc	bcbcm
12	Renfrew (Abbotts I.)	roofdoof	cfbcfcf	f FF	Frod
	Eskdalemuir ...	bcxc	iroco	obwxc	cro
13a	Tiree ...	bcb	bbcbwx	bxciro	cir
13a	Stornoway ...	bbc	bbc	b	b-c
15	Dalwhinnie ...	c	c		c
	Aberdeen ...	bxfb	bbfbm	bmbzo	bzox
	Wick ...	bcc	c	cpro	c
16	Lerwick ...	cpr	cpr	cpr	cphr
17	Blacksod Point	prcq	prcq	proc	prcq
18	Malin Head ...	cbc	bc	bc	cpro
	Aldergrove ...	oFFb	b	bmoc	cpo
	Donaghadee ...	c	cbc b	bbcc	cproc
19	Birr Castle ...	bcc	c	cbc	bcxoiro
20	Valentia Obsy.	pro prbc	bcc pr	probcro	roroc
	Roches Point...	bc	bc	bcb	bbciroc

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. gale.

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.

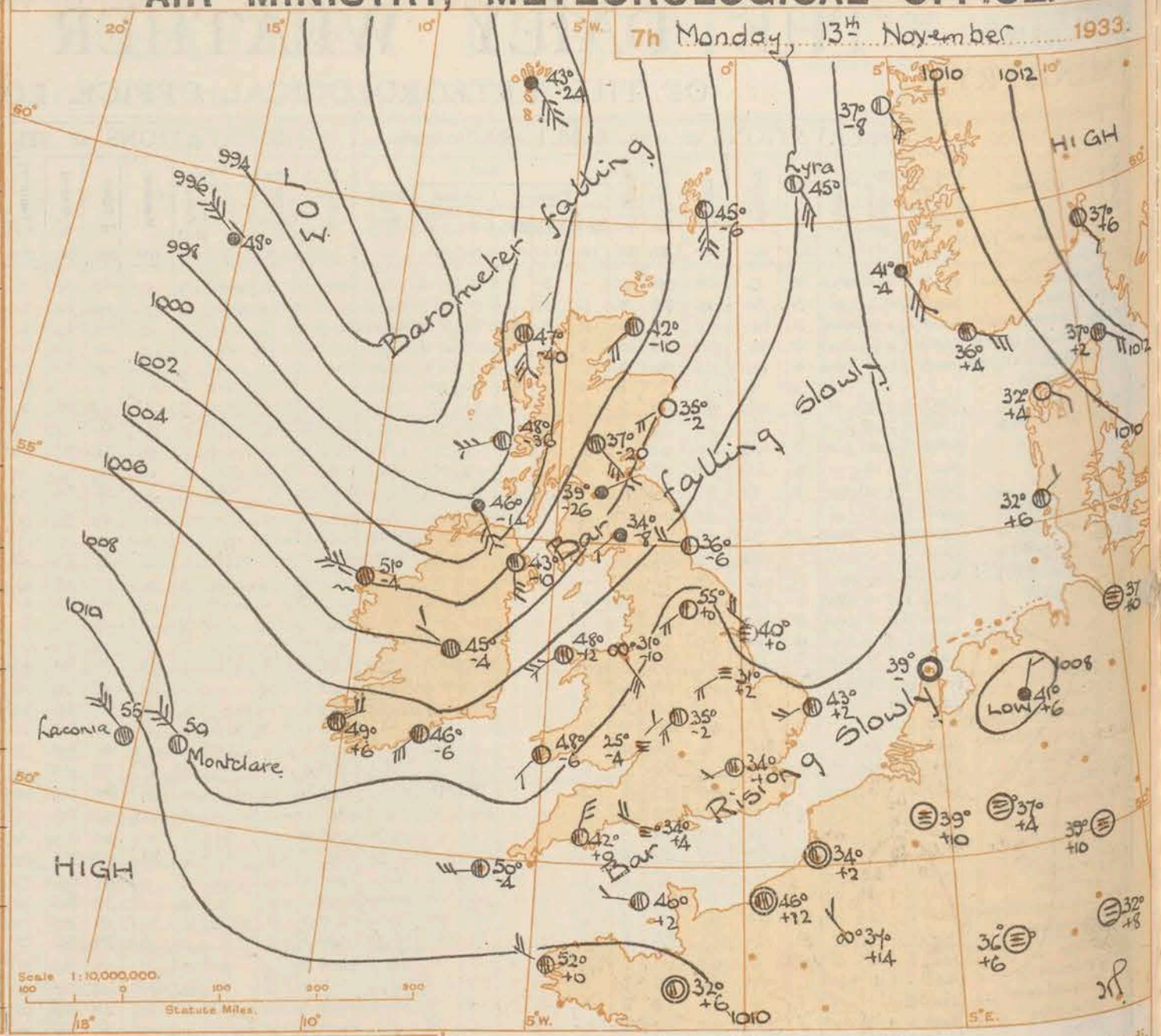
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 12th November 1933.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 11th to 9h. 12th	Temperature. Max. 9h.—17h. 12th	Rainfall. Night. 17h. 11th to 9h. 12	Rainfall. Day. 9h.—17h. 12th	Sunshine. Sunrise to Sunset 12th
1	Tunbridge W.	o	oco	32	47	0.5	–	0.2
	Bournemouth	b	b bm	32	49	–	–	6.2
	Ventnor ...	x b3	opbc3	35	(47)	–	Trace	3.8
	Southsea ...	bccm.	bbcmm	30	49	0.3	–	2.8
	Bognor Regis	bcc	cbcc	33	49	Trace	–	1.0
	Littlehampton	bc	bc	33	48	–	–	0.7
	Worthing ...	co	o	37	47	Trace	–	0.6
	Brighton ...	cbc	c	36	(46)	–	–	0.2
	Eastbourne†	co	oc	37	48	–	–	0.0
	Hastings† ...	oco	o	38	48	–	–	0.4
	Folkestone ...	oir	oir	38	47	Trace	1	0.0
	Dover... ...	moir.	ir.oc	39	48	Trace	1	0.0
	Deal	r	ro	38	47	0.5	3	0.0
	Ramsgate ...	dro	oro	40	47	0.6	3	0.0
	Margate ...	cr	cd	41	47	0.6	3	0.0
2	Southend ...	cm	cm	37	47	1	–	0.0
	Maldon ...	c	bc.o	39	49	0.5	–	0.7
	Clacton-on-Sea	coirc	circ	37	49	2	1	0.0
	Dovercourt ...	roc	rocbr	39	49	2	2	0.2
	Lowestoft ...	irod.	proc	41	47	8	11	0.1
	Skegness ...	o	o	39	48	1	Trace	0.0
	Mablethorpe	c	c	39	47	1	–	0.0
	Cleethorpes...	c	co	39	48	1	–	1.4
3	Leamington S.	oc	co	28	47	–	–	0.5
4	Cheltenham†	cf	cof	30	41	Trace	–	0.4
5	Bath	mcbc	bccm.	30	48	–	–	2.0
	Weymouth ...	b	b	33	49	–	–	7.8
	Jersey ...	c3bc	bc	37	53	–	–	5.7
	Torquay ...	bmw	b bm.	35	49	–	–	7.7
	Penzance ...	rrcb	b	43	53	5	0.6	4.0
	St. Ives ...	pr	c	43	51	7	Trace	2.2
	Bude	pc	cbc	34	49	4	Trace	0.0
	Ilfracombe ...	bc	bc	39	49	–	–	6.8
6	Aberystwyth	x3 bc	bbc3	35	47	–	–	7.5
7	Llandudno ...	b bc	cbc	34	49	–	–	4.0
	Colwyn Bay...	xbcb	bcb	32	48	–	–	5.1
	Rhyl	x b	bm.	30	48	–	–	4.8
8	Wallasey ...	ff	cbc F	31	41	–	–	1.2
	Southport‖ ...	f bc	bcf	30	43	–	–	3.9
	Blackpool ...	cbc	cm	31	44	–	–	4.1
	Morecambe ...	x bbc	b	29	45	–	–	5.5
9	Ilkley... ...	b	b	30	52	–	–	5.5
10	Berwick-on-T.	b	bcc	28	42	–	–	6.2
11	Dunbar ...	bcx	cm.	29	43	–	–	3.4
12	Troon... ...	r.c	bcc	35	48	2	–	0.3
	Douglas ...	c	circb	36	49	6	0.5	0.8

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :— Clear sky. Sky less than 1/10 clouded. Sky 1/10 to 5/10 clouded. Sky 5/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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 Nov., 1933.

Districts.	Forecast
1. S.E. England 2. E. England... 3. E. Midlands	Light or moderate southwesterly wind, veering west; cloudy, some mist or fog at first, perhaps occasional rain locally; rather low to moderate temperature.
4. W. Midlands 5. S.W. England	Light or moderate southwesterly wind, veering west or northwest; cloudy, local rain at first, bright intervals and showers later; moderate temperature.
6. South Wales 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	Wind southwest, veering west or northwest, moderate or fresh; cloudy, occasional rain at first; bright intervals and local showers later; moderate temperature.
13. A. W Scotld. B. N.W. Scotland	Fresh or strong west or northwest wind; showers and bright intervals; moderate temperature.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Moderate or fresh southerly wind, veering; cloudy, occasional rain at first, bright intervals and showers later; moderate temperature.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate or fresh west or northwest wind, strong locally; showers and bright intervals; moderate temperature.

GENERAL INFERENCE.

Pressure is high over the Azores and low to west of Iceland. A trough of low pressure stretching from Iceland to South Ireland, will move eastward. Weather will be rather unsettled.

FURTHER OUTLOOK.

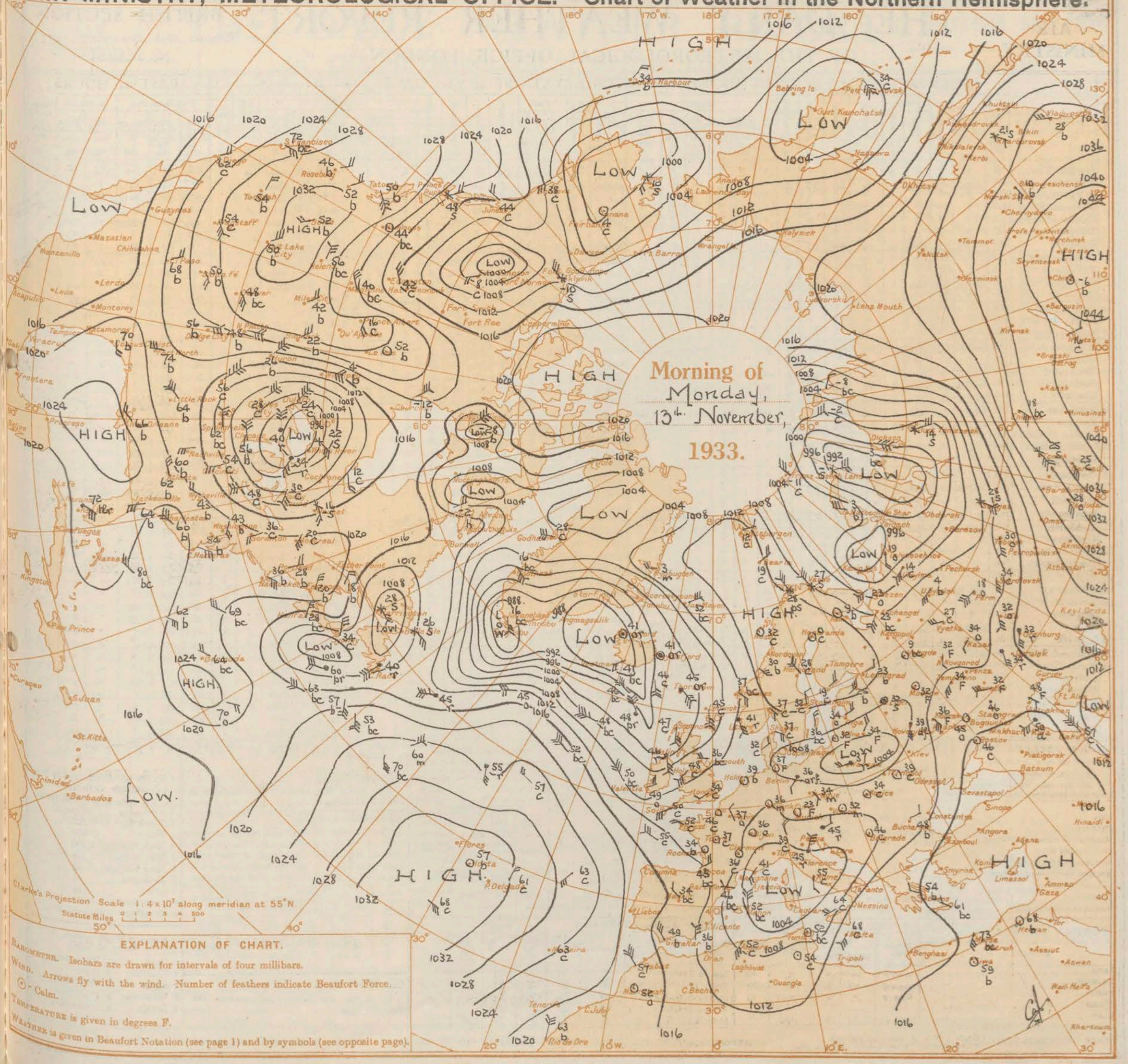
Rather unsettled with westerly winds.

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

Forecasts issued at 1000 G.M.T.

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

Monday 13th November 1933.

No. 2289

OBSERVATIONS at 1 hr. G.M.T. 13th November

Distrct.	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)	Cloud. Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1009·3	+6	SW'W	1	b	36	95	6	-	-	-	0	0	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1008·2	+8	NNE	2	m	40	95	4	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1007·9	+10	NW	1	c	43	95	6	-	2	-	0	7-8	-
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1009·7	+6	N'E	3	bc	41	85	6	5	-	-	4-6	4-6	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1009·7	0	NW	1	bc	45	85	8	4	-	-	2-3	2-3	2500
	Scilly (St. Mary's)	163	1009·6	-2	WNW	2	bc	48	85	8	2	-	-	2-3	2-3	2500
	Guernsey ...	175	1009·5	0	-	0	bc	40	85	7	8	-	-	2-3	2-3	2500
6	Pembroke ...	142	1008·8	0	NE	1	bc	42	95	7	4	6	-	2-3	4-6	4000
7	Holyhead ...	26	1009·0	-4	8	3	bc	46	85	6	5	-	-	2-3	2-3	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1007·9	0	N'W	3	bc	43	85	7	-	1	-	0	2-3	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	100	1007·8	-6	W	2	bcf	37	95	3	5	-	-	2-3	2-3	1500
11	Inchkeith ...	190	1008·0	0	WSW	1	cf	41	95	3	5	-	-	7-8	7-8	800
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts I)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1002·8	-24	SW	1	bc	43	95	8	4	-	-	2-3	2-3	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1004·8	-12	SW	2	c/pr	43	95	8	9	2	-	7-8	10	1500
16	Lerwick ...	54	1005·6	-12	SW	3	c	44	85	8	5	2	-	4-6	7-8	1500
17	Blacksod Point	18	1005·0	-4	-	0	c	49	~~85~~ 95	7	5	-	-	10	10	800
18	Malin Head ...	52	1002·7	-14	S'E	3	r	44	95	7	6	-	-	9+	9+	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1008·2	-14	S	3	0	49	95	7	5	-	-	10	10	800
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 13th November

Distrct.	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)	Cloud. Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)...	1010·1	+4	SW	2	bc	33	95	4	5	-	-	4-6	4-6	4000	4	*
	Croydon ...	1009·6	+4	SW	1	c	34	95	6	5	-	-	9+	9+	1500	1	*
	S. Farnborough	1010·1	+2	-	0	cf	28	95	3	5	-	-	7-8	7-8	7200	4	*
	Boscombe Down	1010·4	+2	-	0	cf	29	95	1	5	3	-	4-6	7-8	2500	4	*
	Calshot, (S'thmtn)	1009·9	+4	WNW	2	m	34	95	4	7	-	-	9	9	2500	0	1
	Dungeness ...	*	*	NW	1	m	*	*	4	4	-	*	7-8	7-8	1500	*	1
	Lympne ...	1009·3	+4	N'W	3	3o	39	95	5	5	3	-	2-3	4-6	800	1	*
2	Shoeburyness	1008·9	+4	NW	1	bc	35	95	6	5	-	-	2-3	2-3	4000	1	*
	Felixstowe ...	1009·0	+4	NW	2	ir	40	95	5	5	2	-	9	10	800	1	1
	Gorleston ...	1008·3	+2	SW'S	2	c	43	95	6	5	-	-	7-8	7-8	2500	1	2
	Cranwell ...	1009·5	-2	WSW	2	bf	31	95	2	-	-	-	0	0	-	4	*
3	Birmingham ...	1009·8	-2	SSW	2	c	35	95	6	-	7	2	0	7-8	-	1	*
	Upper Heyford	1010·5	+4	-	0	bf	26	95	1	-	-	-	0	0	-	4	*
4	Ross-on-Wye ...	1010·0	-4	NE	1	of	25	95	1	5	-	-	10	10	800	1	*
5	Portland Bill...	1009·6	0	NNE	3	c	42	85	6	5	4	-	4-6	9+	1500	0	2
	Plymouth ...	1009·4	-4	ENE	2	3o	34	95	6	7	3	-	4-6	9+	2500	1	1
	The Lizard ...	1008·8	-2	NW	1	c	48	85	8	8	7	-	4-6	9+	2500	1	2
	Scilly (St. Mary's)	1008·7	-4	W'S	3	c	50	85	8	8	7	-	7-8	9+	2500	1	2
	Guernsey ...	1009·8	+2	W	1	c	40	85	7	8	3	-	4-6	7-8	2500	0	1
6	Pembroke ...	1006·6	-6	SSW	1	bc	48	75	7	8	4	-	2-3	4-6	1500	1	1
7	Holyhead ...	1007·1	-12	SSW	4	c/pr	48	85	7	2	-	-	7-8	7-8	2500	1	2
	Chester (Sealand)	1007·7	-10	SE'S	3	3o	31	95	5	5	-	-	7-8	7-8	4000	4	*
8	L'pool (Bidston)	1007·4	-6	ESE	3	3o	33	95	5	5	7	4	2-3	4-6	1500	4	*
	Manchester	1008·1	-4	SE	3	f	32	95	2	5	-	-	10	10	<150	4	*
9	Harrogate ...	1008·1	0	SSW	1	bc	35	85	5	5	-	2	2-3	4-6	2500	4	*
10	Spurn Head ...	1007·7	0	NW'N	3	cf	40	95	2	5	-	-	7-8	7-8	<150	0	2
	Catterick ...	1007·7	-4	SE	2	bcf	27	95	3	-	3	1	0	2-3	-	4	*
	Tynemouth ...	1008·9	-6	W	2	bc	36	95	6	2	-	-	4-6	4-6	2500	1	1
11	Inchkeith ...	1004·8	-20	SSE	1	3o	41	85	6	5	7	-	4-6	9	1500	1	1
	Leuchars ...	1005·1	-14	NW	1	c	31	95	4	5	-	-	7-8	7-8	4000	1	*
12	Renfrew (Abbotts I)	1002·8	-26	NE'E	2	df	39	95	3	5	2	-	9	10	1500	1	*
	Eskdalemuir ...	1005·3	-18	SSW	1	ir	34	95	5	5	-	-	10	10	4000	1	
13A	Tiree	997·8	-30	WSW	4	c	48	95	8	8	7	-	7-8	10	1500	1	3
13B	Stornoway ...	998·4	-30	S	4	c	47	75	8	5	7	-	7-8	10	1500	1	1
15	Dalwhinnie ...	1003·1	-20	SSE	3	c	37	95	7	4	1	-	4-6	9	800	0	*
	Aberdeen ...	1004·3	-6	SW	2	b	35	85	5	3	-	-	Tr.	Tr.	2500	1	1
	Wick	1001·7	-10	SSW	2	c	42	95	8	8	1	8	4-6	9	1500	1	2
16	Lerwick ...	1003·4	-6	S	5	c	45	75	8	8	3	-	7-8	9	1500	1	*
17	Blacksod Point	1003·6	-4	WNW	5	c	51	85	7	9	-	-	9	9	800	1	4
18	Malin Head ...	999·4	-14	S'E	4	ir	46	95	6	6	2	-	9	10	800	1	1
	Aldergrove ...	1003·1	-10	S	3	c	43	95	7	5	3	-	4-6	9+	2500	1	*
	Donaghadee ...	1002·7	-22	WSW	1	c	44	95	7	5	-	-	7-8	7-8	1500	1	0
19	Birr Castle ...	1004·5	-4	WNW	1	o/r	45	95	7	5	-	-	10	10	2500	1	*
20	Valentia Obsy.†	1007·5	+6	ENE	2	o/r	49	95	7	5	-	-	10	10	800	1	*
	Roches Point...	1007·9	-6	SW	3	c	46	95	8	3	-	-	7-8	7-8	1500	1	3

PAST 24 HOURS.

Distrct.	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 12th Hrs. (36)
1	London (Kew)...	48	31	24	0.1	Tr.	1·2
	Croydon ...	47	33	27	1	-	0·0
	S. Farnborough	49	28	20	Tr.	Tr.	3·5
	Boscombe Down	47	25	21	-	-	1·7
	Calshot, (S'thmtn)	48	33	28	-	Tr.	2·6
	Dungeness ...	48	37	*	1	Tr.	*
	Lympne ...	46	38	36	1	0·1	0·0
2	Shoeburyness	50	34	32	0·3	-	0·3
	Felixstowe ...	49	38	36	2	1	0·0
	Gorleston ...	49	42	39	3	0·1	0·0
	Cranwell ...	46	29	27	Tr.	Tr.	1·9
3	Birmingham ...	46	33	17	-	-	3·7
	Upper Heyford	46	26	24	Tr.	Tr.	*
4	Ross-on-Wye ...	48	24	20	-	-	4·2
5	Portland Bill...	49	38	*	-	-	*
	Plymouth ...	46	34	30	Tr.	-	1·2
	The Lizard ...	51	43	*	1	0·1	*
	Scilly (St. Mary's)	51	47	*	1	0·4	5·4
	Guernsey ...	51	39	30	-	-	5·6
6	Pembroke ...	49	~~42~~ 43	*	0.4	2	3·0
7	Holyhead ...	52	45	40	-	4	3·2
	Chester (Sealand)	44	26	20	-	Tr.	4·5
8	L'pool (Bidston)	44	32	29	-	-	3·7
	Manchester	30	26	26	0·2	Tr.	*
9	Harrogate ...	46	33	24	-	-	4·2
10	Spurn Head ...	49	40	*	-	Tr.	2·3
	Catterick ...	48	26	21	-	-	6·0
	Tynemouth ...	50	35	31	-	-	*
11	Inchkeith ...	42	37	27	0.1	Tr.	0·0
	Leuchars ...	41	31	22	-	Tr.	0·2
12	Renfrew (Abbotts I)	42	30	30	0.1	0·4	0·0
	Eskdalemuir ...	38	29	25	0·1	0·4	0·0
13A	Tiree	54	37	24	-	0·4	5·4
13B	Stornoway ...	50	39	*	-	-	6·6
15	Dalwhinnie ...	41	30	26	-	-	0·1
	Aberdeen ...	48	30	25	-	0·1	4·0
	Wick	47	39	*	-	0·1	*
16	Lerwick ...	44	41	*	3	2	0·2
17	Blacksod Point	52	47	*	2	1	*
18	Malin Head ...	50	40	*	-	2	6·9
	Aldergrove ...	49	37	33	Tr.	0·2	5·4
	Donaghadee ...	51	38	*	-	0·3	*
19	Birr Castle ...	50	40	30	-	0·2	3·1
20	Valentia Obsy.†	52	47	45	3	2	3·4
	Roches Point...	51	42	*	-	1	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except Greenwich & Hampst'ead 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	cirm o	bccm o	cm bcm	48	31	24	0·1	Tr.	1·2	*	*	3
Croydon	217	ofr 3cm	cm	bbccm	47	33	27	1	-	0·0	*	*	3
Greenwich (Royal Observatory) ...	149	cdm	cmc	cbcf	48	32	24	Tr.	Tr.	0·1	68	87	2
City (Bunhill Row)	—				*	*	*	*	*	0·1	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	49	32	29	—		0·1	63	95	*
‡Regents Pk. (Botanic Gardens) ...	168	*	*	*	48	35	29	—		1·6	63	91	*
Camden Square	110			*	49	35	29	-	-	*	*	91	*
Kensington	80	c	c	*	48	34	25	-	-	0·8	At 18h. 72	98	*
Hampstead Observatory	450	combc	bcm	ofx	41	33	25	-	-	1·7	*	99	*
		bc	bc										

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 13th.

	Max.	Time.	Min.	Time.
South Kensington.	0·4	20h. 12th.	<0·3	14-16h 23-24h 12th.
Kew Observatory.	0·8	22h. 12th.	0·2	3h. 13th.

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 13th November Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 13th November 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	1005·1	W	1	3o	43	1009·3	NNW	1	3o	37	45	37	3	-
Brussels	1004·6	NNE	3	o	39	1008·7	-	0	of	39	41	37	2	0·3
Berlin	1004·0	-	0	o	37	1008·9	SW	1	mf	36	39	34	0·2	4
Zürich						1009·0	NNW	1	m	28		28		-
Rome	1006·0	*	3	o/d	*	1000·2	S	1	u	55	63	50	2	6

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. ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 14th November 1933.

No. 26,290

OBSERVATIONS at 13h. G.M.T. 13th 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)	Amount Low 0-10 (12)	Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1009.4	-4	S	1	bcf	43	85	3	-	3	1	0	4-6	-
	Croydon ...	1009.6	-6	-	0	zo	46	65	5	-	3	6	0	9+	-
	S. Farnborough	1008.7	-14	SSE	1	m	48	65	4	1	-	2	Tr	2-3	4000
	Boscombe Down	1008.3	-22	S	3	bc	46	65	6	-	3	-	0	2-3	-
	Calshot, S'thmtn	1009.1	-10	S'E	2	zo	49	65	6	-	-	8	0	1	-
	Dungeness ...	*	*	NNE	1	c	*	*	6	5	7	*	4-6	7-8	1500
	Lympne ...	1009.3	-10	N	1	zo	44	85	5	5	-	6	9	9+	800
2	Shoeburyness	1009.0	-6	W	1	c	46	85	6	5	-	-	9+	9+	5700
	Felixstowe ...	1008.9	-6	-	0	m	45	95	4	5	1	-	7-8	9	2500
	Gorleston ...	1008.4	-4	W	1	zo	48	85	5	5	7	8	4-6	7-8	1500
	Cranwell ...	1007.9	-10	SSW	2	zo	43	85	5	-	5	-	0	9	-
3	Birmingham ...	1007.5	-8	S	3	bc	43	75	5	-	7	-	0	4-6	-
	Upper Heyford	1008.6	-18	S	2	m	41	85	4	5	3	1	2-3	4-6	7200
4	Ross-on-Wye ...	1007.3	-14	WSW	2	iro	43	85	5	5	1	-	9	10	1500
5	Portland Bill...	1008.0	-12	SSW	3	bc	52	85	7	5	-	-	4-6	4-6	2500
	Plymouth ...	1008.3	-10	WSW	2	zo	52	75	6	8	7	-	4-6	9+	2500
	The Lizard ...	1008.9	-6	W	3	roro	50	95	5	9	-	-	10	10	1500
	Scilly (St. Mary's)	1008.6	-6	W'S	5	dodo	50	95	6	5	-	-	9+	9+	1500
	Guernsey ...	1009.4	-8	-	0	bc	54	55	7	8	-	-	4-6	4-6	2500
6	Pembroke ...	1005.5	-20	W	4	q	50	95	7	6	-	-	9+	9+	1500
7	Holyhead ...	1005.2	-10	W	4	d/r	50	85	8	2	3	-	4-6	7-8	1500
	Chester (Sealand)	1005.4	-16	SSE	3	iro	42	85	5	5	2	-	7-8	10	1500
8	L'pool (Bidston)	1005.1	-16	SE	3	r	40	95	5	5	-	-	10	10	800
	Manchester	1005.3	-22	SSW	4	ir	42	85	4	6	2	-	4-6	10	2500
9	Harrogate ...	1005.5	-14	S	1	cf	39	85	3	5	-	-	9	9	<150
10	Spurn Head ...	1006.3	-4	SW'S	3	cf	45	85	3	5	3	8	4-6	7-8	450
	Catterick ...	1004.5	-26	SE'S	2	cf	32	95	3	5	-	-	9+	9+	4000
	Tynemouth ...	1003.5	-16	W	2	c	42	75	6	4	-	-	9	9	4000
11	Inchkeith ...	1000.4	-22	S	3	c	44	85	6	5	2	-	7-8	10	1500
	Leuchars ...	1000.1	-28	S	3	c	44	75	7	5	7	-	4-6	9+	4000
12	Renfrew (Abbotts I.)	997.6	-28	S'E	3	roro	45	85	5	9	-	-	10	10	1500
	Eskdalemuir ...	1000.8	-30	S'E	4	rr	39	95	5	6	-	-	10	10	800
13A	Tiree ...	997.6	+18	NWW	6	c	50	75	7	3	7	-	7-8	9	1500
13B	Stornoway ...	994.1	-14	S	5	rr	(43) 47	95	7	8	2	-	4-6	10	1500
15	Dalwhinnie ...	997.9	-10	SSE	5	iro	38	95	6	4	2	-	4-6	10	450
	Aberdeen ...	999.7	-22	S'E	4	iro	44	85	6	6	2	-	7-8	10	1500
	Wick ...	997.0	-28	S	6	c	45	85	8	8	1	8	7-8	10	1500
16	Lerwick ...	999.7	-16	S'E	5	c	46	75	8	8	7	-	4-6	7-8	1500
17	Blacksod Point	1007.2	+12	WNW	5	bc	50	65	8	2	-	-	4-6	4-6	2500
18	Malin Head ...	1001.0	+20	WNW	5	c	50	85	7	8	-	-	9	9	1500
	Aldergrove ...	1002.3	+6	W	4	bc	48	75	8	8	-	-	2-3	2-3	1500
	Donaghadee ...	1002.3	-2	W	2	iro	48	75	7	6	2	-	4-6	7-8	800
19	Birr Castle ...	1007.2	+12	NW	4	bc	52	65	8	2	-	-	2-3	2-3	2500
20	Valentia Obsy.	1011.3	+10	NW	4	c	53	65	8	5	-	-	7-8	7-8	2500
	Roches Point...	1008.3	+6	N	4	bc	53	65	8	3	-	-	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 13th November

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)	1007.0	-14	S	2	roro	44	75	5	6	-	-	10	10	4000	1	*
Croydon	1007.8	-12	S'E	3	iro	44	75	6	5	2	-	7-8	10	4000	1	*
S. Farnborough	1006.5	-14	S	3	iro	43	85	6	6	2	-	4-6	10	4000	1	*
Boscombe Down	1006.1	-14	S	3	roro	44	95	4	5	-	-	10	10	800	1	*
Calshot, S'thmtn	1007.2	-20	SW'S	3	iro	48	95	7	6	2	-	4-6	10	1500	1	1
Dungeness	*	*	-	0	c	*	*	5	5	7	*	4-6	9	1500	*	0
Lympne	1008.8	-2	SW	1	zo	40	95	5	-	3	2	0	7-8	-	1	*
Shoeburyness	1007.8	-6	SSW	1	bc	39	95	5	5	-	-	2-3	2-3	4000	1	*
Felixstowe	1007.6	-6	S'W	2	z	44	95	5	-	7	-	0	10	-	1	1
Gorleston	1007.2	-4	SSW	2	bc	43	85	6	5	-	-	4-6	4-6	2500	0	2
Cranwell	1006.3	+2	S	2	roro	40	95	4	6	2	-	9	10	1500	1	*
Birmingham	1006.0	-2	W	1	o/r	42	95	5	6	-	-	10	10	800	1	*
Upper Heyford	1005.8	-16	-	0	roro	41	95	4	5	-	-	10	10	450	1	*
Ross-on-Wye	1005.7	-6	SW	2	b	43	85	7	5	-	-	Tr	Tr	4000	1	*
Portland Bill	1006.8	-10	W'S	4	c	52	85	7	4	-	-	7-8	7-8	2500	1	3
Plymouth	1008.2	+4	NNW	4	zo	50	85	5	6	-	-	1	1	1500	1	1
The Lizard	1010.0	+14	NW'N	4	bc	47	95	8	4	-	-	2-3	2-3	4000	1	2
Scilly (St. Mary's)	1010.9	+16	NNW	6	bc	51	65	8	4	-	-	2-3	2-3	4000	1	3
Guernsey	1008.8	-2	WSW	2	iro	49	95	6	6	-	-	10	10	1500	1	1
Pembroke	1007.8	+12	NW	3	bc	50	65	7	5	4	-	4-6	4-6	2500	1	2
Holyhead	1007.0	+18	NW'W	5	bc	50	75	8	4	-	-	2-3	2-3	2500	1	3
Chester (Sealand)	1005.1	+6	NW'W	2	bc	43	85	6	8	-	-	4-6	4-6	2500	1	*
L'pool (Bidston)	1005.0	+6	W'N	5	bc	46	75	8	3	-	-	4-6	4-6	2500	1	*
Manchester	1004.7	+2	SW'S	2	ir	41	95	4	6	-	-	9+	9+	800	1	*
Harrogate	1004.0	0	S	1	m	40	95	4	5	-	-	9	9	<150	1	*
Spurn Head	1004.8	-4	S'W	4	m	42	95	4	5	-	-	10	10	450	0	2
Catterick	1002.9	-2	SE'S	1	d/ro	39	95	5	5	-	-	10	10	1500	1	*
Tynemouth	1001.6	-2	S	2	o/r	40	95	4	6	-	-	10	10	1500	1	2
Inchkeith	998.4	+2	SW	5	bc	46	85	7	5	4	-	4-6	4-6	2500	1	3
Leuchars	998.8	+2	W	1	c/r	41	95	7	8	7	-	7-8	9	1500	1	*
Renfrew (Abbotts I.)	1000.1	+14	W	4	pr	43	85	6	9	-	-	9	9	1500	1	*
Eskdalemuir	1000.5	+6	W	3	bc	41	85	8	4	-	-	2-3	2-3	2500	1	*
Tiree	1000.1	+16	NW'W	5	bc	48	75	8	3	-	-	4-6	4-6	1500	1	4
Stornoway	995.6	+20	WNW	4	c	47	85	7	8	6	-	4-6	7-8	800	1	1
Dalwhinnie	998.3	+14	SW	4	ir	41	95	8	4	2	-	7-8	9	800	1	*
Aberdeen	997.9	-6	S	3	rr	44	95	6	6	-	-	10	10	1500	1	2
Wick	995.3	-8	SSW	5	c	46	95	8	8	1	-	7-8	10	1500	1	3
Lerwick	998.2	-6	SSE	4	rr	43	95	6	6	-	-	10	10	800	1	*
Blacksod Point	1008.6	+10	WNW	4	bc	47	75	8	2	-	-	4-6	4-6	4000	1	3
Malin Head	1002.7	+12	NW'W	5	u	48	85	7	6	-	-	7-8	7-8	1500	1	2
Aldergrove	1005.3	+18	W	3	pr	43	95	7	8	-	-	9+	9+	1500	1	*
Donaghadee	1003.4	+8	WNW	2	c	44	85	7	5	-	-	7-8	7-8	1500	0	1
Birr Castle	1009.3	+16	NNW	3	bc	44	85	8	4	-	-	2-3	2-3	2500	1	*
Valentia Obsy.	1012.9	+10	W'N	4	bc/pro	49	75	8	5	-	-	4-6	4-6	1500	1	3
Roches Point	1011.7	+20	N	3	bc	48	85	8	3	-	-	2-3	2-3	2500	0	3

PAST 24 HOURS. — WEATHER.

Stations	7h.–13h. 13th. (37)	13h.–18h. 13th. (38)	18h. 13th. to 1h. 14th. (39)	1h.–7h. 14th. (40)
London (Kew)	cbcf	bczoromo	oiro rmoc	bcbmox
Croydon	cbcmo⊕cm	cbcczoro	crrrorobcmo	bcmo
S. Farnborough	cfbcz	bczKccro	cirobmo	brox
Boscombe Down	cfxbczo	bccrodoro	orrcb	b
Calshot, S'thmtn	bcmcfbcmbm	cmororo	cro *	bxb
Dungeness	c	c	*	bc
Lympne	cfmbcmo	cmo	cmooroRR	bcom
Shoeburyness	bccmo	cmo	crr	bcmo
Felixstowe	crorocm	cmczo	czocrorozo	crrrorom
Gorleston	cmbcc	cmm	bccmo	ororocz
Cranwell	bfxcm	cmroro	orrc	bm
Birmingham	cbc	corr	ob	b-cpr
Upper Heyford	bfccbcm	comrr	orocm	cbc
Ross-on-Wye	cfbcmcm	rdocb	b	bbwx
Portland Bill	c	ciro	b	bbc
Plymouth	cmoxbc	crorobzo	bzocpro	cprobcwm
The Lizard	cprc	cmrbc	bcbbc	bcpro
Scilly (St. Mary's)	cdodo	docbc	bcb	bbc
Guernsey	bc	bccir	ocirbc	bccpr
Pembroke	cqprozoc	cqPRzobc	bcq	bcqbcw
Holyhead	crrmo	cbcq	bc	bc
Chester (Sealand)	cmoiro	rKQRbc	bcPR⊕H	PRqbc
L'pool (Bidston)	mociroro	orrbc	bcqprh	cpcb
Manchester	ofxcro	corrf	crbffx	bfcrof
Harrogate	bccrf	fcorrm	cbp	bx
Spurn Head	cff	ofm	oprpr	prcbcz
Catterick	bfxcmro	cfrofoo	omoDDbc	bcpbbx
Tynemouth	bccmo	comir	omobc	bc
Inchkeith	zoc	cirbc	cbc	bc
Leuchars	froriromo	crorormo	bccrobc	bx
Renfrew (Abbotts I.)	dfrrom	mororcpr	cprmob	bbcx
Eskdalemuir	orr	rrc	bcPpho	bx
Tiree	crrpro	cpr	bcPphr	PHbc
Stornoway	cprror	rrc	cprobc	bc
Dalwhinnie	ir	ir	*	irbc
Aberdeen	bcfcir	irorr	orro	obcbzo
Wick	c	cproc	cpro	cprbc
Lerwick	cphr	corr	orrcq	cir
Blacksod Point	bcq	procq	proc	prc
Malin Head	cpr	cpthr	cprbc	bccp
Aldergrove	orromoc	bccpr	cwbw	bwo
Donaghadee	ciro	ciroc	cproc	cbc
Birr Castle	ircbc	bc	bcb	bxc
Valentia Obsy.	cprocbcbyc	cbccprobc	cprc	cciro
Roches Point	cpobc	bc	bcb	bbcc

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. gale.

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.

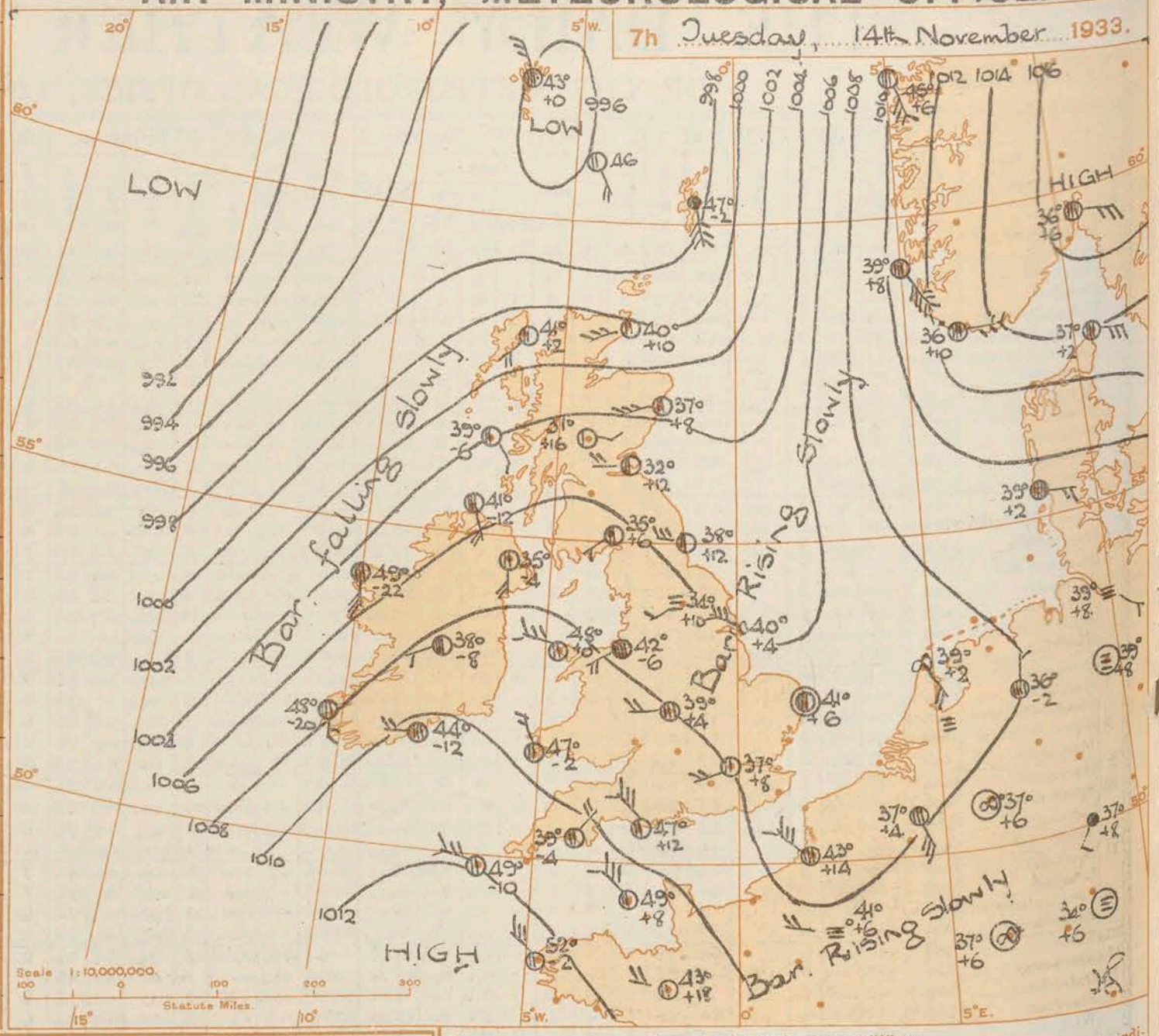
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for Monday, 13th November 1933.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 12th to 9h. 13th.	Temperature. Max. 9h.—17h. 13th.	Rainfall. Night. 17h. 12th to 9h. 13th.	Rainfall. Day. 9h.—17h. 13th.	Sunshine. Sunrise to Sunset. 13th.
1	Tunbridge W.	omcbc	cbc	28	47	-	-	1·8
	Bournemouth	o	d	28	51	-	0·3	3·7
	Ventnor ...	bob	bov	37	52	-	-	5·8
	Southsea ...	bcem	bcpm	37	50	-	trace	3·6
	Bognor Regis	bcbcc	cbbc	37	50	-	-	4·7
	Littlehampton	bc	bcc	37	51	-	-	4·0
	Worthing ...	cbcc	cbcc	38	50	-	-	4·0
	Brighton ...	bcb	b	36	49	-	-	4·7
	Eastbourne†	cbc	bcc	36	49	-	-	3·4
	Hastings† ...	cmbcc	c	38	49	trace	-	2·4
	Folkestone ...	cbcm	bcem	39	46	1	-	0·7
	Dover... ...	fcc	fcmbcf	40	47	2	-	0·5
	Deal	ro	o	37	45	5	-	0·0
	Ramsgate ...	om	bcm	40	48	6	-	0·5
	Margate ...	c	c	42	46	5	-	0·4
2	Southend ...	bfc	cm	35	47	trace	-	2·0
	Maldon ...	mb	c	37	49	-	-	2·9
	Clacton-on-Sea	cbc	bcem	38	48	1	-	1·5
	Dovercourt ...	dcc	bcem	38	46	2	-	0·1
	Lowestoft ...	fcbc	bcem	41	51	0·6	-	2·3
	Skegness ...	bcem	bco	30	44	trace	-	2·1
	Mablethorpe	xbcem	cam	32	47	-	-	3·1
	Cleethorpes ...	b	bcw	34	46	-	-	2·8
3	Leamington S.	come	or	28	46	-	3	1·2
4	Cheltenham†	cfxbc	coirm	28	48	-	1	2·4
5	Bath	mcbcb	bbcer	28	49	-	1	2·9
	Weymouth ...	ecbc	bcir	30	58	-	1	2·3
	Jersey ...	cgbc	bcpc	40	54	-	1	3·5
	Torquay ...	bcmx	bccopm	31	54	-	trace	2·9
	Penzance ...	rcrr	rrcb	40	52	0·3	4	0·8
	St. Ives ...	p	p	43	52	0·3	4	0·2
	Bude	bcp	cp	32	52	trace	3	0·4
	Ilfracombe ...	mco	roc	39	53	-	4	1·5
6	Aberystwyth	bcc	rrpr	34	51	-	5	0·2
7	Llandudno ...	cir	rc	36	50	-	3	0·0
	Colwyn Bay...	bcro	orobc	37	48	-	4	0·3
	Rhyl	cr	rrcbc	32	49	-	2	0·0
8	Wallasey ...	fcr	rRfc	32	47	0·3	7	0·0
	Southport‖ ...	ogo	orobcb	30	44	-	4	0·0
	Blackpool ...	oc	orc	30	47	0·3	4	0·1
	Morecambe ...	cbbcc	rrorc	32	43	-	5	0·3
9	Ilkley... ...	c	cR	25	44	-	5	0·2
10	Berwick-on-T.	or	rro	29	45	-	2	0·0
11	Dunbar ...	bcx	crr	31	45	0·3	1	0·0
12	Troon... ...	rcoc	crc	37	50	trace	2	0·1
	Douglas ...	iRc	cbbcq	37	50	4	5	2·3

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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. 14th Nov., 1933.
1. S.E. England 2. E. England... 3. E. Midlands	Light westerly wind backing and freshening; fair at first, rain later; moderate temperature.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind south or southwest becoming fresh or strong, veering later; dull, some rain; bright intervals later; moderate temperature.
9. N Midlands 10. N.E. England 11. S.E. Scotland	Wind southwesterly, moderate to fresh; fair at first, rain later; moderate temperature.
12. S.W. Scotland & Isle of Man 13. A. W Scotld. B. N.W. Scotland	Freshening southerly wind reaching gale force locally, veering later; dull, some rain, bright intervals and showers later; moderate temperature.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Fresh or strong southerly wind; cloudy to dull, some rain; moderate temperature.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind southerly, strong to gale, veering west, dull, some rain at first, bright intervals and showers later; moderate temperature.

GENERAL INFERENCE.

A wedge of high pressure over Great Britain is giving way before the advance of a vigorous Atlantic depression. Weather will be unsettled and winds are likely to reach gale force in the West.

FURTHER OUTLOOK.

Unsettled but bright periods.

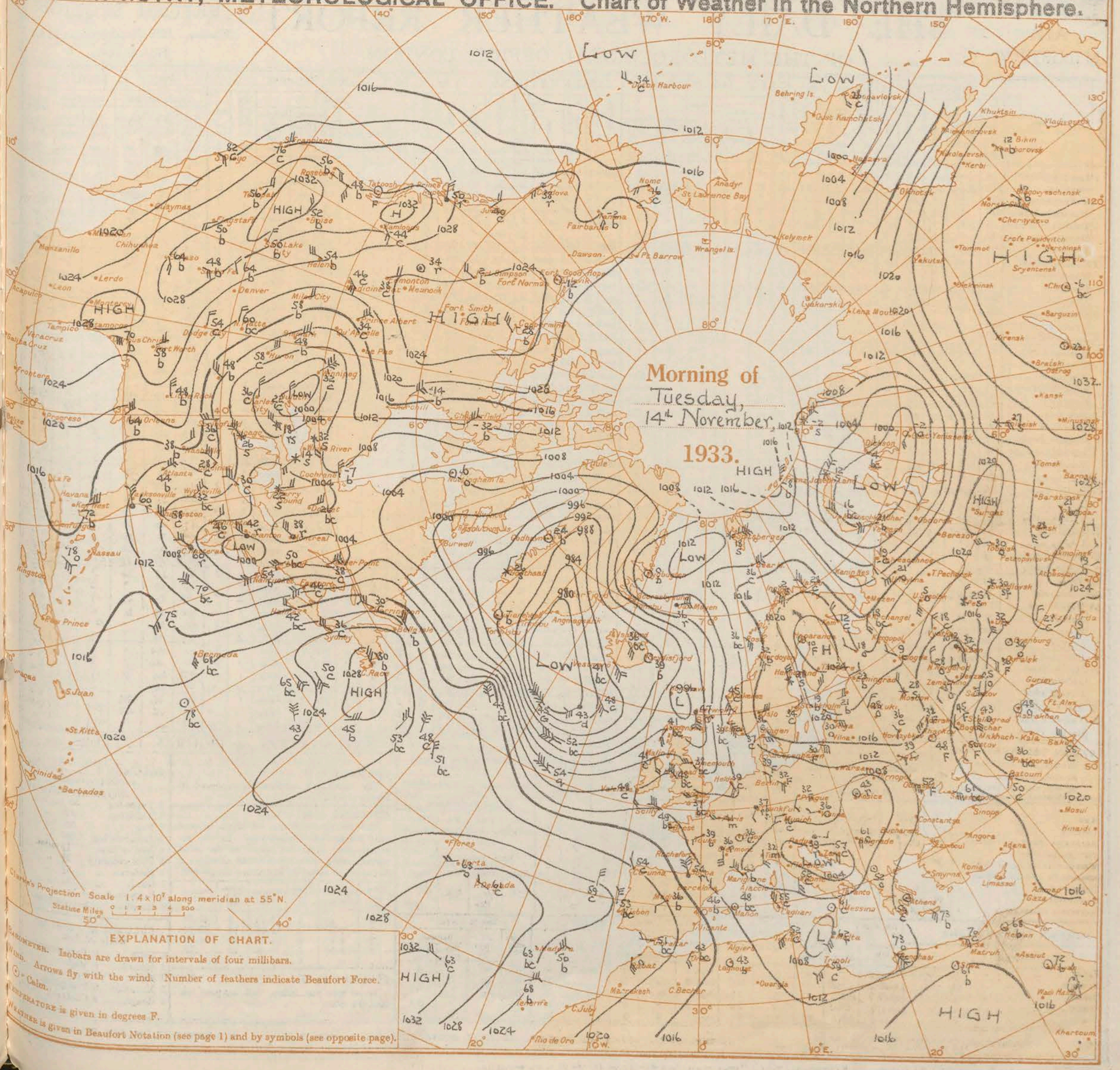
Time of issue of Gale Warning.
South Cone at 1425 on 13th in 15 and 16.
South Cone at 0810 on 14th in 13A, 13B, 17, 20.

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

Tuesday 14th. November 1933.

No. 26.390

OBSERVATIONS at 1 hr. G.M.T. 14th. November

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	1006·9	+6	WNW	2	bc	39	95	6	5	-	-	2·3	2·3	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1005·7	-4	NW	4	bc/r	42	95	4	5	-	-	2·3	2·3	450
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1005·9	-4	WNW	2	cd.	42	95	6	6	-	-	10	10	1500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1008·8	+8	NW	4	b	49	85	7	-	-	-	0	0	-
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1012·0	+4	NW	4	bc	50	75	8	2	-	-	2·3	2·3	2500
	Scilly (St. Mary's)	163	1013·1	+4	NW'N	4	b	50	85	8	5	-	-	1	1	4000
	Guernsey	175	1010·0	+12	NNW	4	bc	50	65	7	8	-	-	2·3	2·3	2500
6	Pembroke	142	1009·8	+10	NNW	4	c	50	65	7	4	6	-	2·3	4·6	2500
7	Holyhead	26	1008·6	+10	NW'W	6	bc	48	75	8	2	-	-	4·6	4·6	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1004·4	0	W'S	3	c/pr	41	95	5	5	2	-	7·8	9+	1500
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	100	1004·5	+14	W	3	bc	42	85	7	2	-	-	4·6	4·6	2500
11	Inchkeith	190	1003·3	+18	SW	3	bc	41	85	7	5	-	-	2·3	2·3	2500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts I)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1000·6	+22	W	2	bc	42	85	7	8	6	-	2·3	2·3	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	997·8	+18	WSW	3	c/pr	41	95	8	9	1	-	4·6	7·8	1500
16	Lerwick	54	997·2	0	SSE	8	c	43	75	6	5	2	-	9	10	800
17	Blacksod Point	18	1009·4	+2	WNW	3	c	47	75	8	9	-	-	7·8	7·8	800
18	Malin Head	52	1005·5	+8	NW'W	3	bc	47	85	7	4	-	-	2·3	2·3	1500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1012·6	-6	W	4	bc	50	95	8	3	-	-	4·6	4·6	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 14th. November

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)	1008·7	+14	WSW	1	b	35	95	5	-	3	-	0	1	-	4	*
Croydon	1008·3	+8	W'S	2	bc	37	95	6	5	7	-	2·3	4·6	2500	1	*
S. Farnborough	1008·7	+10	NW	1	b	36	95	6	-	-	-	0	0	-	1	*
Boscombe Down	1009·6	+10	WNW	1	b	36	95	7	-	-	-	0	0	-	1	*
Calshot, (S'thmtn)	1009·4	+10	W'N	3	b	35	95	7	2	-	-	Tr.	Tr.	4000	1	1
Dungeness	*	*	N	2	bc	*	*	6	5	-	*	4·6	4·6	1500	*	1
Lympne	1007·6	+18	NNW	4	m	39	85	4	5	-	-	9+	9+	220	1	*
Shoeburyness	1008·0	+20	NNW	1	bc	35	95	5	5	-	-	2·3	2·3	4000	1	*
Felixstowe	1007·3	+14	NW	2	c/r	42	95	6	5	2	-	7·8	9+	800	1	1
Gorleston	1007·5	+6	-	0	c	41	95	6	5	2	-	4·6	9+	1500	1	1
Cranwell	1007·6	+10	WSW	2	m	34	95	4	-	3	-	0	1	-	1	*
Birmingham	1008·9	+4	W	2	c	38	95	6	5	-	-	7·8	7·8	2500	1	*
Upper Heyford	1009·0	+10	NW	3	b	38	95	7	5	-	-	Tr.	Tr.	800	1	*
Ross-on-Wye	1009·3	-6	WSW	1	b	35	95	8	4	-	1	Tr.	Tr.	4000	1	*
Portland Bill	1009·7	+12	NNW	4	bc	47	85	7	4	-	-	2·3	2·3	2500	1	3
Plymouth	1011·2	-4	NE	2	bc	39	95	8	8	3	1	4·6	4·6	1500	1	2
The Lizard	1011·8	-2	NW'W	3	bc	49	75	8	8	6	-	4·6	4·6	2500	1	3
Scilly (St. Mary's)	1011·8	-10	WNW	4	bc	49	85	8	5	-	-	4·6	4·6	4000	1	2
Guernsey	1011·0	+8	NNW	4	bc	49	65	9	8	-	-	4·6	4·6	1500	1	3
Pembroke	1009·2	-2	NNW	2	bc	47	75	7	8	6	1	2·3	4·6	2500	0	2
Holyhead	1008·7	0	WNW	4	bc	48	75	8	2	8	-	4·6	4·6	1500	1	2
Chester (Sealand)	1008·1	+6	W'S	2	c/pr	42	85	6	9	-	-	7·8	7·8	1500	1	*
L'pool (Bidston)	1008·1	+2	W	2	bc	44	85	8	3	-	-	2·3	2·3	2500	0	*
Manchester	1007·6	+6	W	2	psf	32	95	3	9	-	-	9+	9+	1500	5	*
Harrogate	1007·0	+6	SW	1	b	35	95	8	2	-	-	Tr.	Tr.	4000	1	*
Spurn Head	1005·9	+4	WNW	4	3o	40	95	5	5	2	-	2·3	4·6	800	1	3
Catterick	1006·5	+6	W'S	1	b	37	95	7	-	-	-	0	0	-	1	*
Tynemouth	1004·8	+12	W	3	bc	38	95	7	5	-	-	2·3	2·3	1500	1	1
Inchkeith	1005·4	+10	SW	2	bc	40	85	6	5	-	-	2·3	2·3	2500	0	2
Leuchars	1005·5	+12	W	2	b	32	95	8	5	-	-	1	1	4000	1	*
Renfrew (Abbotts I)	1005·4	+6	E'N	2	b	33	95	8	1	-	-	Tr.	Tr.	4000	1	*
Eskdalemuir	1006·5	+6	SW	1	b	35	95	8	4	-	-	Tr.	Tr.	2500	1	
Tiree	1003·8	-6	SE	1	bc	39	95	8	3	7	-	4·6	4·6	1500	1	4
Stornoway	1001·5	+2	SSW	2	bc	41	85	8	8	6	-	2·3	2·3	2500	1	1
Dalwhinnie	1004·2	+16	E	1	b	31	95	8	4	-	3	1	1	4000	5	*
Aberdeen	1003·8	+8	WSW	3	b	37	85	6	5	-	-	Tr.	Tr.	2500	1	1
Wick	1001·1	+10	WSW	3	bc	40	85	8	5	8	8	2·3	2·3	2500	1	2
Lerwick	996·9	-2	S	5	ir	47	95	6	6	2	-	6	9+	800	2	*
Blacksod Point	1004·0	-22	S	3	c	49	75	8	8	-	-	7·8	7·8	800	1	3
Malin Head	1004·3	-12	S'E	2	c	41	95	7	4	9	-	2·3	9	1500	1	2
Aldergrove	1007·2	-4	S	2	c	35	95	8	5	3	-	4·6	7·8	450	1	*
Donaghadee	1006·1	-4	W	2	bc	37	95	7	5	-	-	4·6	4·6	1500	0	1
Birr Castle	1008·8	-8	WSW	1	c	38	95	8	5	-	-	7·8	7·8	2500	1	*
Valentia Obsy.†	1007·6	-20	S	2	c/r	48	85	8	5	2	-	7·8	10	1500	1	*
Roches Point	1010·3	-12	W	2	c	44	85	8	3	-	-	7·8	7·8	2500	0	2

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 13th. Hrs. (36)
London (Kew)	46	35	27	Tr	3	2·0
Croydon	49	36	32	Tr	4	2·8
S. Farnborough	49	33	23	0·1	1	2·4
Boscombe Down	47	35	31	0·2	1	3·2
Calshot, (S'thmtn)	51	33	26	0·4	0·5	3·9
Dungeness	48	36	*	Tr	5	*
Lympne	47	38	32	-	6	1·8
Shoeburyness	48	35	35	-	8	1·8
Felixstowe	45	40	37	1	5	0·0
Gorleston	49	40	37	-	3	2·4
Cranwell	43	34	31	0·4	4	1·4
Birmingham	44	38	33	7	0·6	1·6
Upper Heyford	45	37	29	2	1	*
Ross-on-Wye	45	35	24	1	-	1·1
Portland Bill	53	45	*	1	-	*
Plymouth	54	39	33	0·5	0·2	1·7
The Lizard	53	46	*	5	0·1	*
Scilly (St. Mary's)	52	49	*	1	Tr	0·1
Guernsey	54	49	42	1	3	4·3
Pembroke	52	46	*	5	Tr	1·1
Holyhead	51	47	44	3	-	1·3
Chester (Sealand)	44	40	38	5	7	0·1
L'pool (Bidston)	46	42	39	7	1	0·0
Manchester	42	27	24	3	0·2	*
Harrogate	42	35	26	3	0·2	0·1
Spurn Head	46	39	*	-	4	3·2
Catterick	39	30	25	1	0·1	0·0
Tynemouth	43	37	35	3	0·2	*
Inchkeith	47	40	35	1	-	0·0
Leuchars	44	31	25	2	0·1	0·0
Renfrew (Abbotts I)	46	30	23	7	0·6	0·0
Eskdalemuir	43	32	24	11	0·1	0·0
Tiree	50	38	30	3	4	1·3
Stornoway	48	39	*	3	0·6	0·0
Dalwhinnie	41	30	26	4	1	0·0
Aberdeen	45	35	31	2	1	0·0
Wick	46	39	*	0·1	1	*
Lerwick	47	43	*	4	6	0·9
Blacksod Point	51	44	*	1	1	*
Malin Head	50	40	*	2	1	1·6
Aldergrove	49	34	31	4	0·2	2·4
Donaghadee	51	35	*	2	0·4	*
Birr Castle	52	36	26	1	-	5·5
Valentia Obsy.†	53	46	43	0·2	1	5·5
Roches Point	52	40	*	0·1	-	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich & Hampstead 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	cbcf	bc3o rm	oir rbcm	46	35	27	Tr.	3	2·0	*	*	3
Croydon	217	cbcm 9cm	cbcc3o r	cir bcm	49	36	32	Tr.	4	2·8	*	*	5
Greenwich (Royal Observatory)	149	cbcf	cbcm	cir Rbcbf	47	35	27	-	4	0·3	68	93	2
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park)	27	*	*	*	48	34	30	5		0·3	87	96	*
‡Regents Pk. (Botanic Gardens)	168	*	*	*	47	36	33	5		0·4	61	87	*
Camden Square	110	c	bcr	*	47	39	36	4	Tr.	*	*	88	*
Kensington	80	bcmcm	bcm	*	48	36	27	Tr.	5	1·1	At 18h. 69	91	*
Hampstead Observatory	450	of	of	ofr	46	35	27	-	4	1·1	*	93	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 14th.

South Kensington. Max.	Time.	Min.	Time.
1·3	10-11h. 13th.	<0·3	23h.-13th. -7h. 14th.

Kew Observatory. Max.	Time.	Min.	Time.
0·8	12h. 13th.	0·2	6h. 14th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 13th. November. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 14th. November. 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	1010·5	-	0	3o	41	1008·5	W	2	m	41	43	37	-	4
Brussels	1008·2	WSW	1	0	39	1008·9	SSE	3	c	37	41	34	-	-
Berlin	1009·3	SE'S	2	3,	37	1010·1	SE'S	2	F	32	39	30	1	-
Zurich	1010·7	SSW	1	0	34	1011·9	-	0	m	32	34	*	-	0·1
Rome	1001·5	SSW	5	rr	57	1004·7	S	3	u	52	63	49	12	4

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. 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; 6/6 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.

† The observations are from Valentia W/T station ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 15th. November 1933.

No. 26.291

Division	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)
	OBSERVATIONS at 13h. G.M.T. 14th. November														
1	London (Kew)	1007.5	-18	WSW	2	bc	46	75	6	7	-	-	2.3	2.3	2500
	Croydon	1008.1	-14	SW'W	2	zo	48	75	5	2	-	-	1	1	2500
	S. Farnborough	1007.8	-14	WNW	3	bc	51	65	7	2	4	5	2.3	2.3	2500
	Boscombe Down	1007.5	-24	SW	1	c	52	65	7	7	4	8	2.3	7.8	2500
	Calshot, S'thmtn	1008.3	-14	S'W	2	bc	52	65	7	1	5	6	2.3	4.6	2500
	Dungeness	*	*	NW	1	zo	*	*	5	-	-	*	0	0	-
	Lympne	1007.8	-10	NW'N	2	zo	45	75	5	-	-	-	0	0	-
2	Shoeburyness	1007.3	-12	NW'N	2	b	48	75	5	5	-	-	1	1	2500
	Felixstowe	1007.1	-6	NW	1	zo	45	85	5	5	-	-	1	1	450
	Gorleston	1007.1	-4	SW'S	2	m	42	95	4	5	-	-	9	9	1500
	Cranwell	1006.3	-16	-	0	zo	48	75	6	-	-	-	0	0	-
3	Birmingham	1006.9	-10	SW	2	bc	48	65	6	1	-	-	2.3	2.3	2500
	Upper Heyford	1007.5	-14	SW'S	2	bc	49	75	7	1	-	8	2.3	4.6	1500
4	Ross-on-Wye	1006.9	-12	SW	2	zo	49	65	6	1	7	6	Tr	9	4000
5	Portland Bill	1008.4	-12	NW	3	bc	52	85	8	4	4	-	2.3	4.6	2500
	Plymouth	1008.2	-24	WSW	3	zo	51	75	6	7	2	-	4.6	9+	1500
	The Lizard	1008.1	-20	WSW	4	r	51	85	7	8	1	-	7.8	10	2500
	Scilly (St. Mary's)	1007.2	-28	SW'W	4	iro	50	95	6	8	2	-	7.8	10	2500
	Guernsey	1009.7	-10	-	0	c	52	65	8	8	7	8	4.6	7.8	2500
6	Pembroke	1006.0	-16	SW	3	c	51	~~75~~ 65	7	5	5	-	4.6	7.8	2500
7	Holyhead	1005.7	-24	S'W	4	c	50	65	8	4	7	6	2.3	9	2500
	Chester (Sealand)	1005.7	-22	S'W	1	bc	53	55	7	1	5	-	2.3	4.6	4000
8	L'pool (Bidston)	1005.2	-12	S'W	2	b	47	65	8	1	7	-	Tr	Tr	2500
	Manchester	1005.5	-20	SSW	3	bc/F	45	95	4	8	-	-	4.6	4.6	2500
9	Harrogate	1005.2	-6	SW	1	b	48	65	8	2	-	-	Tr	Tr	4000
10	Spurn Head	1005.2	-4	NNW	2	zo	46	85	5	5	2	-	2.3	4.6	800
	Catterick	1004.5	-18	SE	1	b	47	75	7	1	-	-	Tr	Tr	2500
	Tynemouth	1004.3	-14	W	2	bc	45	75	6	5	-	-	4.6	4.6	800
11	Inchkeith	1003.8	-20	W	1	c	45	85	7	5	-	8	4.6	7.8	1500
	Leuchars	1003.7	-18	SW	1	b	49	65	7	-	-	1	0	Tr	-
12	Renfrew (Abbotsinch)	1002.4	-24	SSE	2	bc/f	46	75	5	1	-	1	1	2.3	4000
	Eskdalemuir	1003.6	-22	SE'S	1	c	40	85	7	5	-	-	9+	9+	800
13A	Tiree	998.1	-36	[illegible]	5	c	47	75	8	2	7	8	4.6	9+	1500
13B	Stornoway	997.9	-24	S	4	bc	47	75	8	5	5	6	2.3	4.6	2500
15	Dalwhinnie	1001.9	-18	S	4	b	42	75	8	4	-	1	Tr	Tr	~~800~~ 3000
	Aberdeen	1002.6	-18	SSE	1	b	48	55	5	5	-	-	1	1	800
	Wick	1001.1	+2	SSW	3	b	47	75	8	1	-	-	Tr	Tr	4000
16	Lerwick	1000.5	+20	SW	4	bc	48	75	7	8	7	-	2.3	4.6	1500
17	Blacksod Point	994.0	-56	S	8	iR	50	85	7	9	-	-	10	10	450
18	Malin Head	997.3	-42	S'E	5	c	45	95	7	5	7	-	1	9+	1500
	Aldergrove	1001.7	-36	S	2	zo	44	85	7	5	7	9	4.6	9+	7200
	Donaghadee	1003.2	-26	W	2	c	47	75	8	8	3	-	4.6	7.8	2500
19	Birr Castle	1000.6	-42	S	4	rr	46	95	7	6	-	-	10	10	2500
20	Valentia Obsy.	997.5	-62	S'E	6	roro	50	95	5	6	-	-	10	10	450
	Roches Point	1002.1	-46	SW	5	ir	51	95	7	6	-	-	9	9	1500

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)
OBSERVATIONS at 18h. G.M.T. 14th. November																
London (Kew)	1005.4	-4	SSE	2	bf	38	95	3	-	-	-	0	0	-	1	*
Croydon	1006.2	-8	SSE	3	bf	38	85	3	-	3	-	0	1	-	1	*
S. Farnborough	1005.1	-14	SSW	1	m	40	85	4	-	7	8	0	1	-	1	*
Boscombe Down	1004.6	-14	S'E	2	c	41	95	7	5	-	-	10	10	1500	1	
Calshot, S'thmtn	1004.9	-22	SE'E	2	c	47	85	7	8	7	8	Tr	7.8	2500	0	1
Dungeness	*	*	W'S	1	bc	*	*	5	7	-	*	4.6	4.6	1500	*	0
Lympne	1007.0	-4	SW'W	1	zo	40	85	5	-	-	-	0	0	-	1	*
Shoeburyness	1005.9	-6	-	0	m	38	95	4	-	7	-	0	2.3	-	1	*
Felixstowe	1006.5	-6	-	0	F	40	95	1	.	.	.	10	10	<150	1	0
Gorleston	1006.0	-6	S'W	1	F	37	95	0	.	.	.	10	10	<150	0	1
Cranwell	1004.8	-10	S'E	2	c	40	95	6	5	7	-	2.3	9	5700	1	*
Birmingham	1003.8	-18	SSE	2	c	42	85	6	-	-	6	0	9+	-	1	*
Upper Heyford	1004.8	-18	S	2	zo	41	85	6	-	3	-	0	7.8	-	1	*
Ross-on-Wye	1002.7	-20	S'E	3	clpc	45	75	6	5	-	-	10	10	2500	1	*
Portland Bill	1003.8	-18	SSW	3	roro	50	85	7	5	-	-	10	10	1500	1	3
Plymouth	1002.4	-34	SSW	6	rr	51	85	7	5	-	-	10	10	800	1	4
The Lizard	1001.8	-30	S	5	clpc	50	85	7	8	-	-	10	10	1500	1	3
Scilly (St. Mary's)	999.3	-40	S'W	5	roro	50	95	5	6	-	-	10	10	1500	1	4
Guernsey	1005.6	-20	SW	2	o	51	75	8	5	-	-	10	10	1500	1	2
Pembroke	997.6	-40	SSW	4	pr	50	85	7	5	2	-	4.6	10	1500	1	3
Holyhead	999.2	-38	SSE	5	iro	49	85	6	6	2	-	7.8	10	1500	1	3
Chester (Sealand)	1001.4	-24	SE'S	3	c	43	85	6	5	7	-	2.3	7.8	5700	1	*
L'pool (Bidston)	1000.8	-20	SE'[illegible]	3	c	43	85	7	5	-	-	7.8	7.8	2500	0	*
Manchester	1001.9	-20	SSE	3	m	41	85	4	-	7	-	0	1	-	1	*
Harrogate	1002.5	-10	S	1	b	38	85	5	-	-	-	0	0	-	1	*
Spurn Head	1003.2	-6	SSW	3	zo	42	95	5	5	1	-	2.3	4.6	800	0	2
Catterick	1002.3	-8	SE'S	1	bc	37	95	6	5	-	-	2.3	2.3	2500	1	*
Tynemouth	1002.3	-14	S	2	m	43	75	4	2	-	-	4.6	4.6	2500	1	1
Inchkeith	1000.9	-18	SE	1	c	43	75	8	5	-	8	4.6	7.8	1500	0	1
Leuchars	1000.7	-14	SE	1	bc	38	95	6	7	4	6	Tr	4.6	2500	1	*
Renfrew (Abbotsinch)	998.0	-26	E	2	o	42	85	5	5	-	-	10	10	2500	1	*
Eskdalemuir	999.8	-22	SSE	2	iro	39	95	7	5	7	-	2.3	10	1500	1	*
Tiree	991.4	-40	SSE	7	rr	45	95	6	6	-	-	10	10	800	1	5
Stornoway	994.2	-16	SE	7	c	47	65	8	5	7	-	7.8	9	1500	1	4
Dalwhinnie	998.1	-16	S	6	c	38	95	8	4	1	-	7.8	9	1500	0	*
Aberdeen	1000.4	-12	SSE	3	b	44	75	6	1	-	-	1	1	1500	1	1
Wick	999.1	-16	SSE	6	bc	47	75	8	5	8	-	2.3	4.6	2500	1	2
Lerwick	1001.5	+2	SSE	4	bc	47	75	7	8	1	-	4.6	4.6	1500	1	*
Blacksod Point	990.7	-20	W	4	pR	47	85	7	9	-	-	9	9	450	1	5
Malin Head	988.2	-60	S'E	5	roro	44	95	6	6	2	-	9	10	800	1	4
Aldergrove	994.3	-36	SSE	4	rr	45	95	6	5	-	-	10	10	1500	1	*
Donaghadee	995.4	-32	S	4	roro	47	95	7	6	-	-	10	10	800	1	3
Birr Castle	992.4	-20	S	2	rr	48	95	7	~~5~~ 6	-	-	10	10	2500	1	*
Valentia Obsy.	995.2	-2	W	3	clpr	49	85	8	9	-	-	9	9	1500	1	4
Roches Point	992.9	-48	SW	6	rr	51	95	6	6	-	-	10	10	1500	1	6

Stations	PAST 24 HOURS. Weather 7h.–13h. 14th. (37)	13h.–18h. 14th. (38)	18h. 14th. to 1h. 15th. (39)	1h.–7h. 15th. (40)
London (Kew)	bfbczo	bczobf	corom	orrmo
Croydon	bcmobmmo	bcmobf	bfcmoedoro	crorr
S. Farnborough	bmobc	bcfbmx	bmxcmo	corrmo
Boscombe Down	bbmobc	c	coro	orrRcmo
Calshot, S'thmtn	bmobc	c	cdocrc	crrcroro
Dungeness	b	bc		r
Lympne	cmbcmobzo	bmox	bwcmoc	crrmo
Shoeburyness	bm	bmo	bmo [illegible]	c
Felixstowe	cmoffe, bzo	bzoF		c
Gorleston	cmm	coff	ffobc	becq
Cranwell	bmmo	bzowc	cmo	corororr
Birmingham	bcb	bbc	coror	orrc
Upper Heyford	bbc	bcbbc	bccrr	orrmo
Ross-on-Wye	bbc⊕c	ccpo	opooroq	roc
Portland Bill	bc	coro	iroir	oRRcbc
Plymouth	bccmo	cmororr	corrmo	cbcb
The Lizard	bcproc	rocproc	cprbc	cprqbc
Scilly (St. Mary's)	ciro	ororo	ciroq	bcpq
Guernsey	bcc	cpro	oirqr	oRrq
Pembroke	bcc	compro	oqrrmdc	cqirobcqc
Holyhead	bccpro⊕	croc	rorrmo	rrbc
Chester (Sealand)	mobc	bcc	cror	rrc
L'pool (Bidston)	bcb	bcc	corr	orc
Manchester	rsFF	bmcbm	bmcrrm	crrmo
Harrogate	b	cb	boc	ocrr
Spurn Head	bcz	bcz	bccz	zcir
Catterick	b	bbmo	bmoof	oforrm
Tynemouth	bcmo	bcm	bcmo	oirq
Inchkeith	bcc	czo	co	ociro
Leuchars	bxb	bwxmo	bxmobcc	cciro
Renfrew (Abbotsinch)	bxbxff	bbcomo	orrmo	orrmo
Eskdalemuir	bxc	cro	iro	ororr
Tiree	bccir	corr	orRR	oriRr
Stornoway	bc	bccpro	croro	cproq
Dalwhinnie	b	bc	*	ir
Aberdeen	bz	bzo	bzobc	bc
Wick	bc	bc	bcc	cbc
Lerwick	cirpr	cbc	bcciR	cpr
Blacksod Point	irq (gale)	(gale) PRcq	prc	prtq
Malin Head	c	crr	crrpr	cbc
Aldergrove	bcczo	ccrorr	orrroro	obc
Donaghadee	bcc	cororo	oRR	RRirocbc
Birr Castle	cor	orr	rcir	cirbcx
Valentia Obsy.	cprorroro	roroprcprc	phtlpr	prPR
Roches Point	cir	corr	orcbc	bc

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. gale

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.

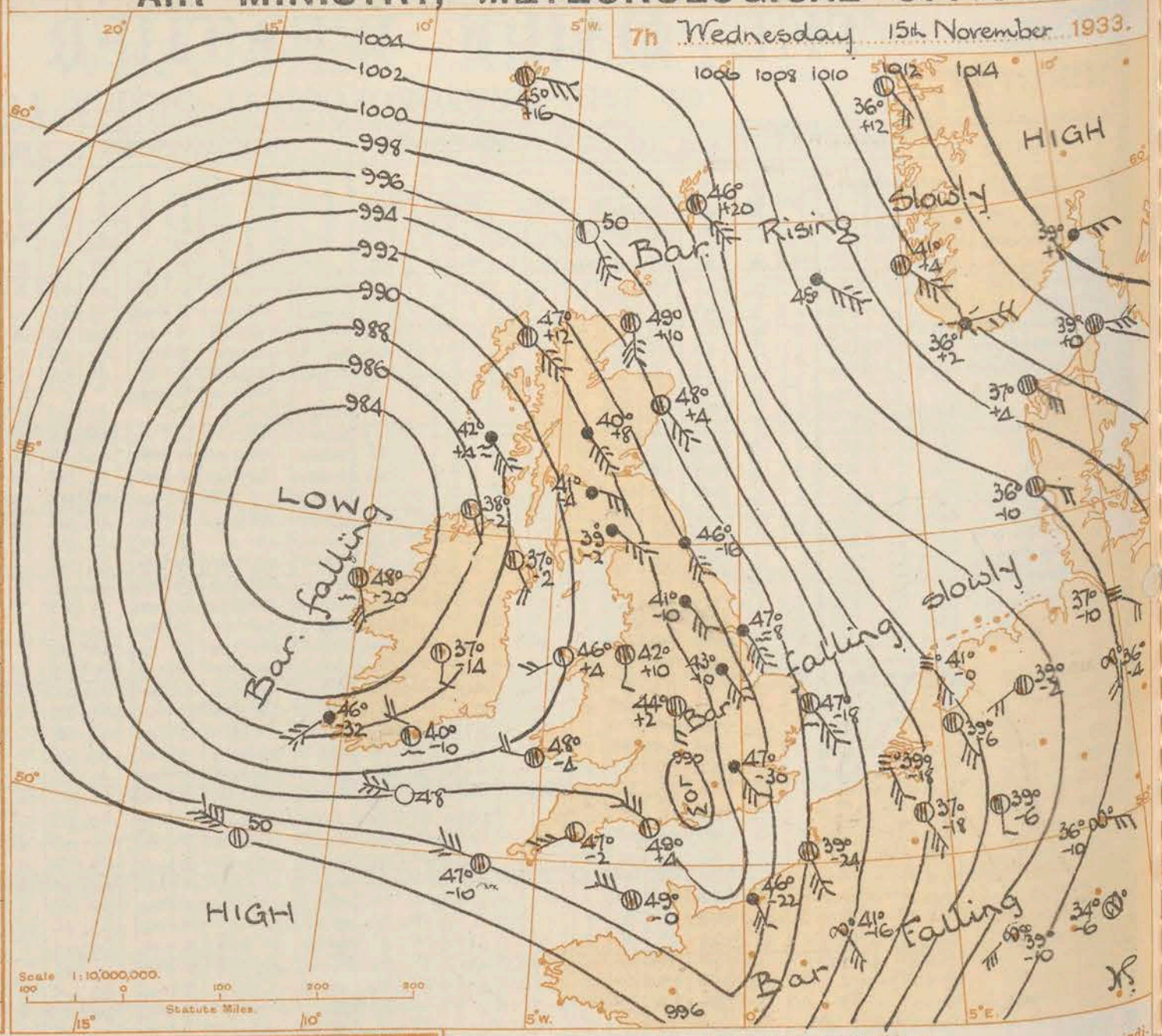
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for Tuesday 14th November 1933.

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.	b	bbc	34	48	4	–	7.2
	Bournemouth	b	bm	33	51	2	–	5.5
	Ventnor ...	orbz	bbccw	42	53	6	–	6.7
	Southsea ...	b	bm	37	51	1	–	6.9
	Bognor Regis	b	bbc	36	50	1	–	6.9
	Littlehampton	b	bbc	36	52	2	–	7.0
	Worthing ...	b	b	38	51	2	–	7.0
	Brighton ...	b	bc	38	50	3	–	7.3
	Eastbourne†	b	b	40	50	4	–	7.5
	Hastings† ...	bbc	bcb	38	49	6	–	6.5
	Folkestone ...	bcbm	bm	40	48	12	–	6.1
	Dover... ...	fcmbc	mbcbf	40	49	10	–	6.0
	Deal	rcc	b	39	45	6	#1	3.5
	Ramsgate ...	bcm	bcbmf	41	46	7	–	4.1
	Margate ...	cbc	bc	42	46	5	–	2.7
2	Southend ...	bm	bbcom	36	51	6	–	5.8
	Maldon ...	b	b	38	50	5	–	6.5
	Clacton-on-Sea	ogrmcbc	bc	38	48	13	–	4.9
	Dovercourt ...	fbc	fbc	39	49	5	–	4.0
	Lowestoft ...	fromo	oF	39	42	2	–	0.0
	Skegness ...	b	b	32	49	4	–	6.1
	Mablethorpe	cbcbm	bbcm	34	(49)	7	–	7.3
	Cleethorpes ...	bfbo	bwo	36	49	2	–	6.5
3	Leamington S.	bbc	bcc	32	48	4	–	5.8
4	Cheltenham†	bxfbc	bcgc	29	44	–	–	4.5
5	Bath	b	bbcc	30	50	0.3	–	4.5
	Weymouth ...	b	bc	35	54	trace	–	5.7
	Jersey ...	rcbc	bcbc	46	55	8	trace	3.7
	Torquay ...	bbwm	bbcbr3	35	53	trace	trace	3.8
	Penzance ...	crc	crrc	44	52	trace	1	0.2
	St. Ives ...	b	b	43	52	0.5	1	0.0
	Bude	bcbc	cbc	41	51	0.6	1	0.2
	Ilfracombe ...	bd	cbd	44	52	–	0.3	2.3
6	Aberystwyth	bwbc	c	38	49	0.5	–	1.4
7	Llandudno ...	bc	bcco	44	50	5	–	3.1
	Colwyn Bay...	rbc	bco	43	50	5	–	3.2
	Rhyl	bc	bbcc	40	50	10	–	2.5
8	Wallasey ...	cbc	bbcc	37	50	5	–	4.1
	Southport‖ ...	bcbbc	bbcco	40	50	0.1	–	4.0
	Blackpool ...	cbc	bcc	37	50	0.3	–	3.8
	Morecambe ...	cbcc	bbcc	35	49	4	–	5.7
9	Ilkley... ...	b	b	28	48	1	–	5.3
10	Berwick-on-T.	b	b	35	47	trace	–	6.9
11	Dunbar ...	rbcw	bc	38	49	trace	–	6.6
12	Troon... ...	robcb	bcco	39	49	2	–	4.6
	Douglas ...	bcbc	oiro	39	50	–	1	3.9

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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 Nov. 1933.

Districts.	Forecasts
1. S.E. England 2. E. England	Light or moderate southeasterly or variable wind; cloudy, bright intervals; occasional rain, local mist or fog at night; moderate temperature.
3. E. Midlands 4. W. Midlands	Fresh or strong southeasterly wind; cloudy, occasional rain; moderate or rather low temperature.
5. S.W. England	As 1.
6. South Wales 7. North Wales	Strong westerly wind becoming variable; bright intervals, occasional rain; moderate temperature.
8. N.W. England	Wind variable to southeasterly, fresh locally; bright intervals, occasional rain; moderate temperature.
9. N Midlands	Moderate or fresh southeasterly wind, cloudy, bright intervals, occasional rain; moderate temperature.
10. N.E. England 11. S.E. Scotland	As 2.
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.	Fresh or strong southeasterly wind; cloudy, occasional rain bright intervals locally; moderate temperature.
17. N.W. Ireland 18. N.E. Ireland	As 8 - 9.
19. S.E. Ireland 20. S.W. Ireland	As 5.

GENERAL INFERENCE.

A depression centred off Northwest Ireland is moving southeast and a secondary trough over England and France is moving east slowly. There will be occasional rain especially in Eastern districts.

FURTHER OUTLOOK.

Probably colder with easterly winds.

Times of issue of Gale Warnings.

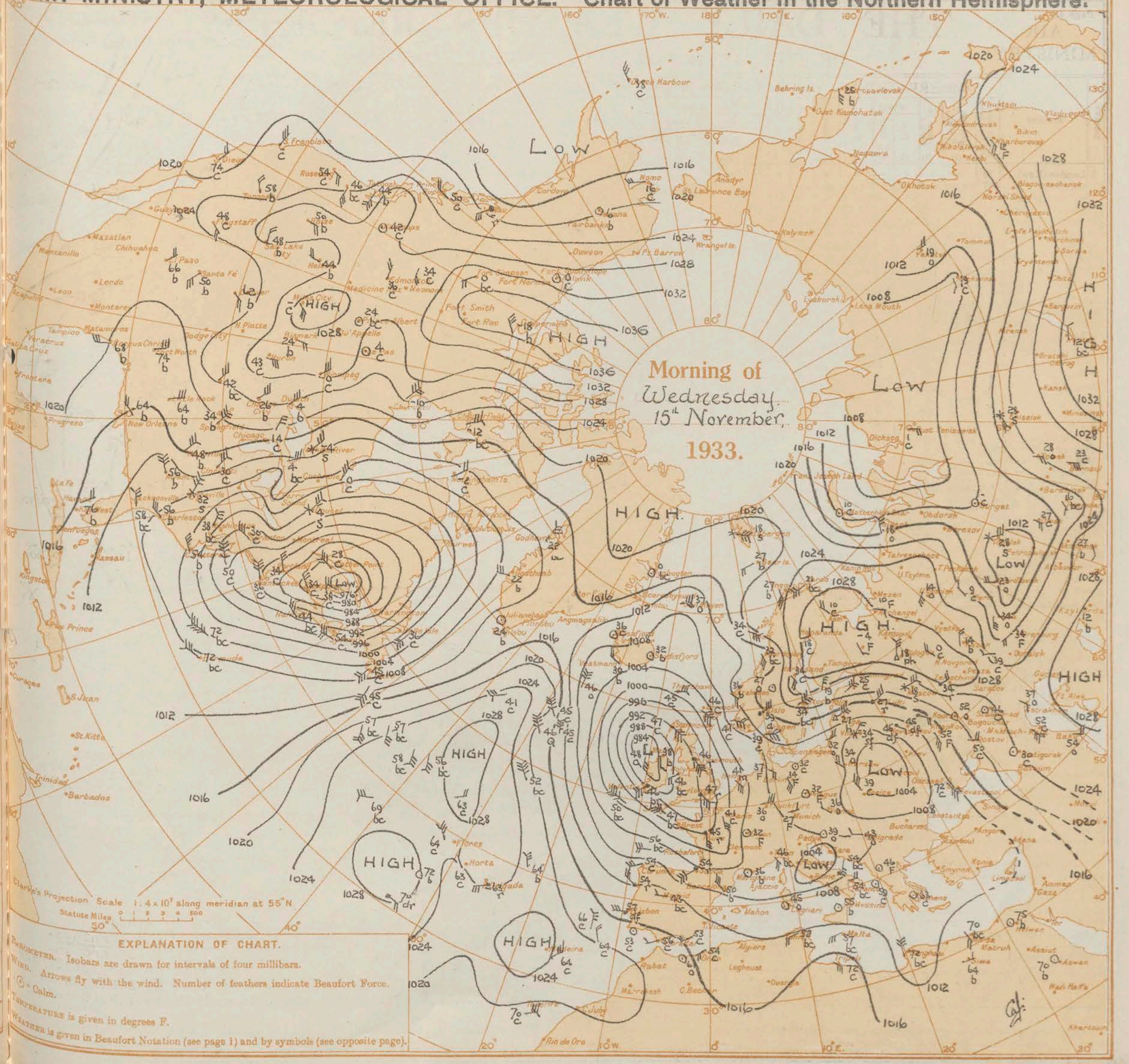
South cone at 1425 on 13th in 15 and 16.
" " at 0810 on 14th in 13A, 13B, 17 & 20
" " at 1330 on 14th in 5, 6, 7, 8, 12.
" " at 0910 on 15th in 1, 2, 10 and 11

Forecasts issued at 1020 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

Wednesday 15th. November 1933.

No. 26,291

OBSERVATIONS at 1 hr. G.M.T. 15th. November

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	999.7	-34	SE'E	4	ir.	45	85	7	5	7	–	4-6	10	2500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1001.3	-30	S	4	c	47	75	7	5	2	–	9	10	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1001.5	-16	S'E	1	bc	41	95	6	–	1	–	0	4-6	–
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	994.2	-40	S	6	r.r.	51	95	7	5	–	–	10	10	1500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	995.2	-6	WNW	6	PR	50	85	8	9	–	–	4-6	4-6	2500
	Scilly (St. Mary's)	163	996.1	-8	NW'W	6	bc	50	75	7	2	–	–	4-6	4-6	2500
	Guernsey	175	996.3	-51	S	7	rr	49	95	6	6	–	–	10	10	1500
6	Pembroke	142	990.9	-20	WNW	5	q	51	75	7	3	–	–	7-8	7-8	2500
7	Holyhead	26	989.7	-34	S'W	5	rr	48	95	5	6	–	–	10	10	450
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	998.5	-14	SSE	6	30	44	85	5	5	2	–	4-6	9+	800
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	100	997.0	-20	S	3	0	44	75	6	5	–	–	10	10	1500
11	Inchkeith	190	995.1	-22	SE	2	0	44	75	7	5	–	–	10	10	1500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts'D)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	990.4	-16	SE	6	r.r.	46	65	6	8	6	–	7-8	9+	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	995.5	-10	S	6	c	48	75	8	8	1	–	4-6	7-8	2500
16	Lerwick	54	1001.0	0	S	7	c/r	45	95	7	9	–	–	9	9	1500
17	Blacksod Point	18	989.4	-6	W	3	c	48	75	7	9	–	–	9	9	800
18	Malin Head	52	987.0	-4	S'E	1	u	42	95	7	6	–	–	7-8	7-8	800
	Aldergrove	268	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	993.0	-6	SW	7	u	45	95	6	9	–	–	9+	9+	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 15th. November

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)	991.8	-22	SE	3	rr	47	95	5	6	-	-	10	10	800	1	*
Croydon	992.8	-30	ESE	4	rr	47	95	6	6	2	-	7-8	10	800	1	*
S. Farnborough	989.9	-28	S'E	3	o/r	47	95	5	6	-	-	10	10	450	1	*
Boscombe Down	990.8	-2	NW	2	ir.	43	95	6	6	2	-	7-8	9+	1500	1	*
Calshot (S'thmtn)	990.2	-24	NNW	5	r.r.	46	95	7	5	-	-	7-8	7-8	1500	1	3
Dungeness	*	*	SSW	4	rr	*	*	5	9	-	*	9+	9+	1500	*	1
Lympne	995.2	-26	SSE	5	rr	45	95	6	6	-	-	10	10	1500	1	*
Shoeburyness	994.7	-24	SE	4	ir.	45	85	7	5	2	-	7-8	9+	1500	1	*
Felixstowe	996.0	-18	SE	5	c	47	75	7	5	2	-	9	10	800	1	3
Gorleston	996.1	-18	SE	6	c	47	85	6	8	-	-	10	10	1500	0	4
Cranwell	993.3	-10	SE'E	5	rr	43	95	5	6	-	-	10	10	450	1	*
Birmingham	991.5	+2	S	2	c	44	95	7	6	7	-	1	9+	1500	1	*
Upper Heyford	991.5	-18	SE	2	r.r.	44	95	6	6	-	-	10	10	800	1	*
Ross-on-Wye	991.4	-4	SW	1	c	43	95	7	5	-	9	7-8	7-8	4000	1	*
Portland Bill	992.0	+4	NW	4	bc	49	85	7	5	-	-	4-6	4-6	1500	1	3
Plymouth	993.1	-2	WSW	3	bc	47	85	8	8	-	-	4-6	4-6	1500	1	2
The Lizard	993.9	-4	W	6	pr	47	85	8	9	-	-	4-6	4-6	1500	1	3
Scilly (St. Mary's)	993.5	-10	WNW	5	q	47	75	8	3	4	-	2-3	4-6	2500	1	4
Guernsey	993.7	0	NW'W	4	c	49	75	7	8	-	-	7-8	7-8	1500	1	3
Pembroke	990.3	-4	W	2	c	48	75	7	8	7	-	4-6	7-8	2500	1	3
Holyhead	989.9	+4	W'S	2	bc	46	75	7	2	-	-	4-6	4-6	1500	1	2
Chester (Sealand)	990.1	+10	S	1	c	43	95	6	5	3	2	7-8	9	2500	1	*
L'pool (Bidston)	989.8	+4	SW'S	3	c	44	95	7	5	2	-	4-6	10	2500	1	*
Manchester	989.8	0	S	3	r.r.	45	95	5	6	-	-	10	10	800	1	*
Harrogate	992.4	-10	SE	4	rr	41	95	5	6	2	-	9+	10	2500	1	*
Spurn Head	993.2	-8	SSE	7	ir.	47	95	7	3	2	-	7-8	10	4000	1	4
Catterick	992.0	-18	SE'E	4	rr	42	95	6	6	-	-	10	10	1500	1	*
Tynemouth	992.3	-16	SSE	6	ir	46	85	6	6	-	-	10	10	1500	1	3
Inchkeith	992.2	-6	ESE	4	ir.	44	85	8	8	-	-	10	10	2500	1	3
Leuchars	994.1	-6	ESE	4	ir.	46	75	8	5	-	-	9+	9+	1500	1	*
Renfrew (Abbotts'D)	990.7	-4	E	3	rr	41	85	6	6	2	-	7-8	10	1500	1	*
Eskdalemuir	990.7	-12	ESE	5	rr	39	85	6	6	-	-	10	10	800	1	
Tiree	987.3	+4	SE'E	6	rr	42	95	6	6	-	-	10	10	800	1	5
Stornoway	991.7	+12	ESE	6	c/pr.	47	75	7	8	6	-	4-6	10	1500	1	3
Dalwhinnie	992.1	+8	SE	7	ir.	40	95	7	4	1	-	4-6	7-8	800	1	*
Aberdeen	996.0	+4	SE	5	bc	48	65	7	8	3	-	2-3	4-6	2500	1	3
Wick	996.3	+10	S	6	bc	49	75	8	8	8	-	4-6	4-6	2500	1	3
Lerwick	1003.1	+20	SE	6	c	46	85	8	8	-	-	7-8	7-8	1500	1	*
Blacksod Point	982.7	-20	S	3	c	48	75	8	9	-	-	9	9	800	1	4
Malin Head	985.4	-2	S'E	1	b	38	95	7	6	-	-	1	1	1500	1	2
Aldergrove	988.4	-2	SSE	2	b	37	95	8	5	-	-	1	1	450	1	*
Donaghadee	986.8	+6	NW	1	bc	38	95	7	5	3	-	2-3	4-6	2500	1	1
Birr Castle	988.0	-14	S	1	c	37	95	8	5	-	-	7-8	7-8	2500	1	*
Valentia Obsy.†	986.8	-32	SW	5	pr	46	85	7	6	-	-	9+	9+	1500	1	*
Roches Point	991.3	-10	NW	2	bc	40	95	8	5	-	-	4-6	4-6	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 14th. Hrs. (36)
London (Kew)	48	37	28	Tr	7	6.2
Croydon	49	38	34	-	5	5.5
S. Farnborough	51	40	31	-	6	6.6
Boscombe Down	52	42	39	-	10	5.4
Calshot (S'thmtn)	51	45	41	-	8	6.0
Dungeness	50	37	*	-	1	*
Lympne	47	38	26	-	1	5.3
Shoeburyness	49	36	32	-	Tr	5.7
Felixstowe	48	32	28	Tr	Tr	3.3
Gorleston	42	35	34	-	-	0.0
Cranwell	48	36	31	Tr	3	6.3
Birmingham	48	41	38	-	8	5.9
Upper Heyford	49	39	34	-	8	*
Ross-on-Wye	49	43	37	Tr	3	5.2
Portland Bill	53	49	*	Tr	10	*
Plymouth	52	46	43	1	5	2.3
The Lizard	51	46	*	1	5	*
Scilly (St. Mary's)	52	46	*	3	3	0.1
Guernsey	53	48	43	0.1	8	1.6
Pembroke	52	48	*	0.1	5	0.8
Holyhead	50	46	43	0.2	11	2.0
Chester (Sealand)	53	43	39	-	5	2.9
L'pool (Bidston)	47	42	40	-	10	3.8
Manchester	49	39	35	0.5	7	*
Harrogate	48	37	29	-	9	5.4
Spurn Head	48	41	*	-	1	7.0
Catterick	47	34	30	-	8	7.0
Tynemouth	46	40	34	-	2	
Inchkeith	47	41	35	-	Tr	3.9
Leuchars	50	37	29	-	Tr	5.9
Renfrew (Abbotts'D)	47	40	32	0.1	13	1.7
Eskdalemuir	41	37	35	0.1	8	2.8
Tiree	48	42	41	3	20	1.5
Stornoway	48	45	*	0.1	2	3.0
Dalwhinnie	42	36	35	-	1	5.2
Aberdeen	48	43	41	-	-	6.4
Wick	47	43	*	-	-	*
Lerwick	48	44	*	1	2	4.2
Blacksod Point	51	44	*	9	1	*
Malin Head	48	37	*	6	1	0.4
Aldergrove	46	37	33	4	5	1.7
Donaghadee	49	37	*	2	42	*
Birr Castle	48	36	29	5	1	0.0
Valentia Obsy.†	52	44	41	13	5	0.0
Roches Point	52	40	*	5	2	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations, except Greenwich & Hampstead 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	bf bc3o	bc3 bf	c r r m	48	37	28	Tr.	7	6.2	*	*	6
Croydon	217	bc m b m m	bc m bf	bf c r r	49	38	34	-	5	5.5	*	*	6
Greenwich (Royal Observatory)	149	bf	bf	b x c d r r	47	38	26	-	5	0.3	82	91	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.5	*	*	*
Westminster (St. James' Park)	27	*	*	*	48	42	33	7		1.4	69	92	*
‡Regents Pk. (Botanic Gardens)	168	*	*	*	49	40	35	9		3.5	69	92	*
Camden Square	110	b b c	c	*	50	43	40	-	9	*	*	94	*
Kensington	80	b m b c3	b c3	*	49	39	30	Tr.	8	2.8	At 18h. 84	98	*
Hampstead Observatory	450	bc	c	c r f	48	41	35	-	12	5.2	*	100	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 15th.

	Max.	Time.	Min.	Time.
South Kensington	1.3	9am 14th	<0.3	1-7h. 15th.
Kew Observatory	0.8	18h. 14th.	<0.1	4h. 15th.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 14th. November Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 15th. November 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	1008.3	-	0	bc	43	999.3	SSE	3	3o	41	50	37	-	-
Brussels						*	SSE	4	c	37		37		Tr.
Berlin	1010.5	SE'S	2	F	34	1008.0	SSE	1	of	34	37	32	-	0.6
Zürich	1011.1	ENE	2	c	37	1007.9	E	1	bf	34	45	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. 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; 6/6 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.

† Hr observations are from Valentia W/T station. ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 16th November 1933.

No. 26,292

OBSERVATIONS at 13h. G.M.T. 15th November

Division	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)...	989.4	+10	W'S	3	c	48	85	7	2	-	1	7.8	7.8	1500
	Croydon ...	991.2	+10	WSW	3	c	48	75	6	8	7	-	4.6	7.8	1500
	S. Farnborough	990.6	+10 [corrected in red to +2]	W	2	c	49	75	7	8	-	2	4.6	7.8	2500
	Boscombe Down	991.1	-6	W	3	bc	50	65	7	2	-	1	2.3	4.6	2500
	Calshot, S'thmtn	991.5	-2	WSW	3	bc	50	65	8	2	-	3	2.3	2.3	4000
	Dungeness ...	*	*	SSE	5	pR	*	*	6	9	-	*	9+	9+	1500
	Lympne ...	992.3	-16	SSE	4	cir	45	95	6	6	2	-	9+	10	450
2	Shoeburyness	991.5	-18	SSE	4	iro	45	95	7	5	-	-	10	10	800
	Felixstowe ...	993.3	-14	SE	6	rr	45	95	6	6	-	-	10	10	800
	Gorleston ...	994.4	-8	SE'S	6	roro	46	95	6	6	-	-	10	10	1500
	Cranwell ...	992.2	-6	E'S	3	rr	44	95	5	6	-	-	10	10	450
3	Birmingham ...	991.4	-2	NNW	2	irof	45	85	3	6	-	-	10	10	1500
	Upper Heyford	990.9	-2	NW	4	roro	44	95	7	6	-	-	9+	9+	450
4	Ross-on-Wye ...	990.7	0	W'S	2	bcjp	51	65	7	1	4	-	2.3	2.3	4000
5	Portland Bill...	990.0	-6	WNW	4	bc	[crossed out; 52 in red]	65	7	2	-	-	4.6	4.6	2500
	Plymouth ...	992.2	-10	W	3	c/pro	50	65	8	3	-	3	4.6	7.8	2500
	The Lizard ...	992.0	-16	W'S	4	c[illegible red correction]	51	65	8	8	6	-	7.8	7.8	2500
	Scilly (St. Mary's)	991.4	-16	WSW	5	c	50	75	7	8	-	7	4.6	10	2500
	Guernsey ...	993.6	-6	W'N	3	bc	51	65	8	8	-	-	4.6	4.6	2500
6	Pembroke ...	989.9	-12	SW	1	bc	52	55	7	5	7	-	4.6	4.6	2500
7	Holyhead ...	991.0	+6	SSE	1	bc	51	65	8	4	5	-	2.3	2.3	4000
	Chester (Sealand)	991.3	0	-	0	zo	47	85	6	5	3	8	4.6	9	5700
8	L'pool (Bidston)	991.1	0	-	0	c	46	85	8	5	1	-	9	9+	2500
	Manchester	991.1	+2	SE'E	4	rr	45	95	4	6	-	-	10	10	800
9	Harrogate ...	993.2	+6	E	3	rr	43	95	5	6	2	-	9+	10	2500
10	Spurn Head ...	993.0	-2	SE'E	7	iro	48	85	6	3	2	-	4.6	10	2500
	Catterick ...	993.9	+10	ESE	3	roro	44	95	6	6	-	-	10	10	800
	Tynemouth ...	995.2	+16	SE	6	rr	47	85	6	6	-	-	10	10	1500
11	Inchkeith ...	995.0	+18	ESE	4	iro	45	85	7	9	-	-	10	10	2500
	Leuchars ...	997.5	+18	ESE	5	roro	47	85	7	6	2	-	7.8	10	1500
12	Renfrew (Abbotts I.)	993.1	+16	E	4	m	45	85	4	5	2	-	7.8	10	1500
	Eskdalemuir ...	993.5	+24	ESE	6	rr	41	85	6	6	-	-	10	10	800
13A	Tiree ...	992.1	+32	ESE	5	c	45	85	7	5	7	-	7.8	10	1500
13B	Stornoway ...	996.9	+28	E	6	c	48	65	8	5	7	-	7.8	9	2500
15	Dalwhinnie ...	996.4	+20	SE	5	iro	42	85	6	3	2	-	4.6	9	800
	Aberdeen ...	999.7	+12	SE'E	7	c/phr	48	65	6	9	7	-	4.6	9	1500
	Wick ...	1000.4	+20	S	8	c/pr	48	85	8	9	6	2	4.6	9	1500
16	Lerwick ...	1005.7	+20	SE	5	c	46	85	7	8	-	-	9	9	1500
17	Blacksod Point	983.9	+16	E	4	c	45	95	8	9	-	-	9	9	800
18	Malin Head ...	989.4	+26	NE	3	zo	47	95	6	2	-	3	Tr	1	1500
	Aldergrove ...	990.3	+16	E	3	bfg	47	75	6	5	-	1	Tr	Tr	1500
	Donaghadee ...	988.9	+10	E	1	bc	48	75	8	8	3	-	4.6	4.6	2500
19	Birr Castle ...	985.5	-10	SSE	4	c	48	75	8	5	-	8	4.6	7.8	2500
20	Valentia Obsy.	982.7	-14	W'N	1	bc	49	75	8	8	-	2	1	4.6	1500
	Roches Point...	985.9	-20	SW	3	c/pr	48	85	8	6	-	-	7.8	7.8	1500

OBSERVATIONS at 18h. G.M.T. 15th November

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)	993.1	+14	SSW	1	m	44	85	4	-	-	-	0	0	-	1	*
Croydon	993.3	+16	SSW	2	zo	41	85	5	-	-	-	0	0	-	1	*
S. Farnborough	993.2	+20	SW'S	1	m	39	95	4	4	-	-	Tr	Tr	4000	1	*
Boscombe Down	992.7	+14	-	0	b	42	85	7	2	-	-	Tr	Tr	4000	1	*
Calshot, S'thmtn	992.7	+8	SW'W	1	b	45	85	7	8	-	-	1	1	2500	0	1
Dungeness	*	*	SW	2	c	*	*	7	5	-	*	7.8	7.8	1500	*	2
Lympne	993.8	+10	SSE	1	bc/pro	44	95	7	5	-	-	4.6	4.6	1500	1	*
Shoeburyness	993.2	+10	SSE	2	bc/ro	43	95	6	5	-	-	4.6	4.6	1500	1	*
Felixstowe	993.9	+10	SE'E	4	rr	47	95	6	6	-	-	10	10	800	1	3
Gorleston	994.6	+4	SE'E	7	rr	46	95	6	6	-	-	10	10	800	1	4
Cranwell	993.0	+8	E'N	4	roro	43	95	5	6	-	-	10	10	450	1	*
Birmingham	992.5	+10	N	1	iro	42	95	5	6	-	-	10	10	800	1	*
Upper Heyford	993.0	+18	W	1	b	40	95	7	5	-	1	Tr	Tr	1500	1	*
Ross-on-Wye	992.3	+10	SW	1	m	41	95	4	5	-	-	1	1	2500	1	*
Portland Bill	992.0	+6	W	3	bc	50	75	7	4	-	-	4.6	4.6	2500	0	3
Plymouth	991.7	-12	S'W	2	c/pr	47	85	8	8	-	-	9	9	1500	1	3
The Lizard	991.1	-2	SSW	4	pr	47	85	7	8	-	-	7.8	7.8	2500	1	3
Scilly (St. Mary's)	989.4	-12	SW	4	c/pro	48	85	8	3	7	-	4.6	9+	2500	1	4
Guernsey	993.7	0	W'N	2	bc	45	85	8	8	-	-	4.6	4.6	1500	2	3
Pembroke	990.4	+2	SE	2	bc/r	47	85	7	8	7	-	4.6	4.6	2500	1	1
Holyhead	993.6	+18	E	3	b	45	95	5	2	-	1	Tr	1	4000	1	1
Chester (Sealand)	993.6	+20	ENE	2	roro	42	95	6	6	-	-	10	10	1500	1	*
L'pool (Bidston)	993.9	+18	ENE	3	rr	42	95	5	5	-	-	10	10	450	1	*
Manchester	993.4	+12	E'S	5	o/f	44	85	4	5	-	-	10	10	800	1	*
Harrogate	994.6	+10	E	2	rr	43	95	5	6	2	-	9+	10	2500	1	*
Spurn Head	994.8	+2	SE	6	rr	46	95	7	6	-	-	10	10	1500	1	5
Catterick	996.3	+16	ENE	3	o	45	85	6	5	-	-	10	10	800	1	*
Tynemouth	997.9	+20	SE	6	o	48	85	7	6	-	-	10	10	1500	1	4
Inchkeith	1000.6	+36	ESE	4	iro	46	75	7	9	-	-	10	10	2500	1	3
Leuchars	1002.4	+30	E	5	pr	47	75	7	8	7	-	7.8	9+	1500	1	*
Renfrew (Abbotts I.)	999.2	+36	[crossed out; ENE in red]	4	iro	45	85	5	5	-	-	10	10	2500	1	*
Eskdalemuir	998.9	[corrected in red to +36]	NE'E	4	c	42	85	7	5	-	-	9+	9+	1500	1	*
Tiree	999.0	+40	E'S	5	c	48	75	7	5	7	-	9+	10	1500	1	5
Stornoway	1003.7	+34	SE	5	c	49	65	7	8	6	-	7.8	9	1500	1	3
Dalwhinnie	1002.2	+24	NNE	[corrected in red to 3]	c	42	75	7	4	-	-	10	10	800	1	*
Aberdeen	1004.8	+30	E'S	6	bc/pr	46	65	7	9	7	-	1	2.3	1500	1	4
Wick	1005.7	+28	SE	6	c	48	75	8	8	1	-	4.6	7.8	1500	1	4
Lerwick	1011.3	+30	SE	5	bc	44	85	7	8	1	-	4.6	4.6	1500	1	*
Blacksod Point	991.7	+4	E	6	q	49	85	8	9	[corrected in red to 4]	-	7.8	7.8 [10 in red]	800	1	5
Malin Head	995.5	+42	ENE	5	r	49	95	7	3	-	-	9+	9+	800	1	3
Aldergrove	994.8	+34	ENE	4	roro	45	95	7	5	7	-	7.8	9+	1500	1	*
Donaghadee	994.1	+20	ESE	4	c	48	85	7	6	-	-	9+	9+	800	1	3
Birr Castle	989.5	+26	SE	2	bc	44	85	8	5	[illegible red mark]	-	2.3	2.3	2500	1	*
Valentia Obsy.	985.3	+22	-	0	bc	42	95	8	8	-	-	4.6	4.6	2500	1	[red 8] 6
Roches Point	986.4	+6	SW	3	c	49	85	8	3	-	-	7.8	7.8	2500	0	4

PAST 24 HOURS.

Stations	Weather 7h.–13h. 15th (37)	Weather 13h.–18h. 15th (38)	Weather 18h. 15th to 1h. 16th (39)	Weather 1h.–7h. 16th (40)
London (Kew)	orrcroc	bczobm	bfe	oFe
Croydon	rrdodobc	czobczo	bmwx	bxoFFe
S. Farnborough	oroRcbc	bcbbmo	bmbfx	Fex
Boscombe Down	bmobc	bcb	b [red]	bbxmo
Calshot, S'thmtn	cbc [red correction: cro]	bbw		bxbcroc
Dungeness	r	c	*	r
Lympne	orrdodo	ccpro	bbcmw	orbcc
Shoeburyness	ciroorr	ciro	cb[red]mo	Ffx
Felixstowe	crrzo	orrmo	rrRRmo	o,bcmo
Gorleston	cqorr	orrq	orrq	orrq
Cranwell	orrmo	orrcoroo	oroo	oro iro
Birmingham	oirof	ogfrmiro	oirom	oiro
Upper Heyford	rrRroro	robcb	bprob	bFo
Ross-on-Wye	b	bczo	bmfw	bFeof
Portland Bill	bc	bc	oproo	proc
Plymouth	bcpro	bccpr	crorr	crooc
The Lizard	proc	cprc	cprb	bbcc
Scilly (St. Mary's)	bccpq	cpqpo	cpobc	bc
Guernsey	pRbc	pRbc	cprbc	bc
Pembroke	cprbcy [y in red]	bccirbc	bmocbc	bcxc
Holyhead	bc	bc	cmoc	cmoro
Chester (Sealand)	cmmo	iroorrmo	orromo	omoiro
L'pool (Bidston)	c	cgorrf	oiroq	oro odo
Manchester	cfrcm	corrf	om[red correction: cfo]	[red correction] cm
Harrogate	corr	corr	corr	c
Spurn Head	ciro	irorr	orr	c
Catterick	orrmoroo	omo	omo	ocrr pr
Tynemouth	orrq	oiroq	obcpqbc	bcoprmq
Inchkeith	cir	ciro	cprbc	cpr
Leuchars	ciroocm	cirpro	cPRH pro	bcpro pr
Renfrew (Abbotts I.)	roocm	cmmoro	crocmo	omociro
Eskdalemuir	roorr	rrroc	ciro	ciro
Tiree	ogrrciro	c	ciro	bc
Stornoway	c	c	cb	b
Dalwhinnie	ir	ir	*	cbc
Aberdeen	cprhr	cprq	bccpr	cPRH
Wick	bccpr [gale symbol]	c[gale symbol]prc	cprc	cprc
Lerwick	cpr	cprbcq	bcpr	bcc
Blacksod Point	prc	prcq	cbc	cbc
Malin Head	3	bczoc	cpro	c
Aldergrove	bbmo	b,cmoc	crroc	cbc
Donaghadee	bc	bccprc	cq	cprocq
Birr Castle	bcc	cbc	bc	bcxcir
Valentia Obsy.	cprhrbc	bccprobc	bccirobc	bcc
Roches Point	bcpo	cpr	cpbc	bcpc

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. gale.

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.

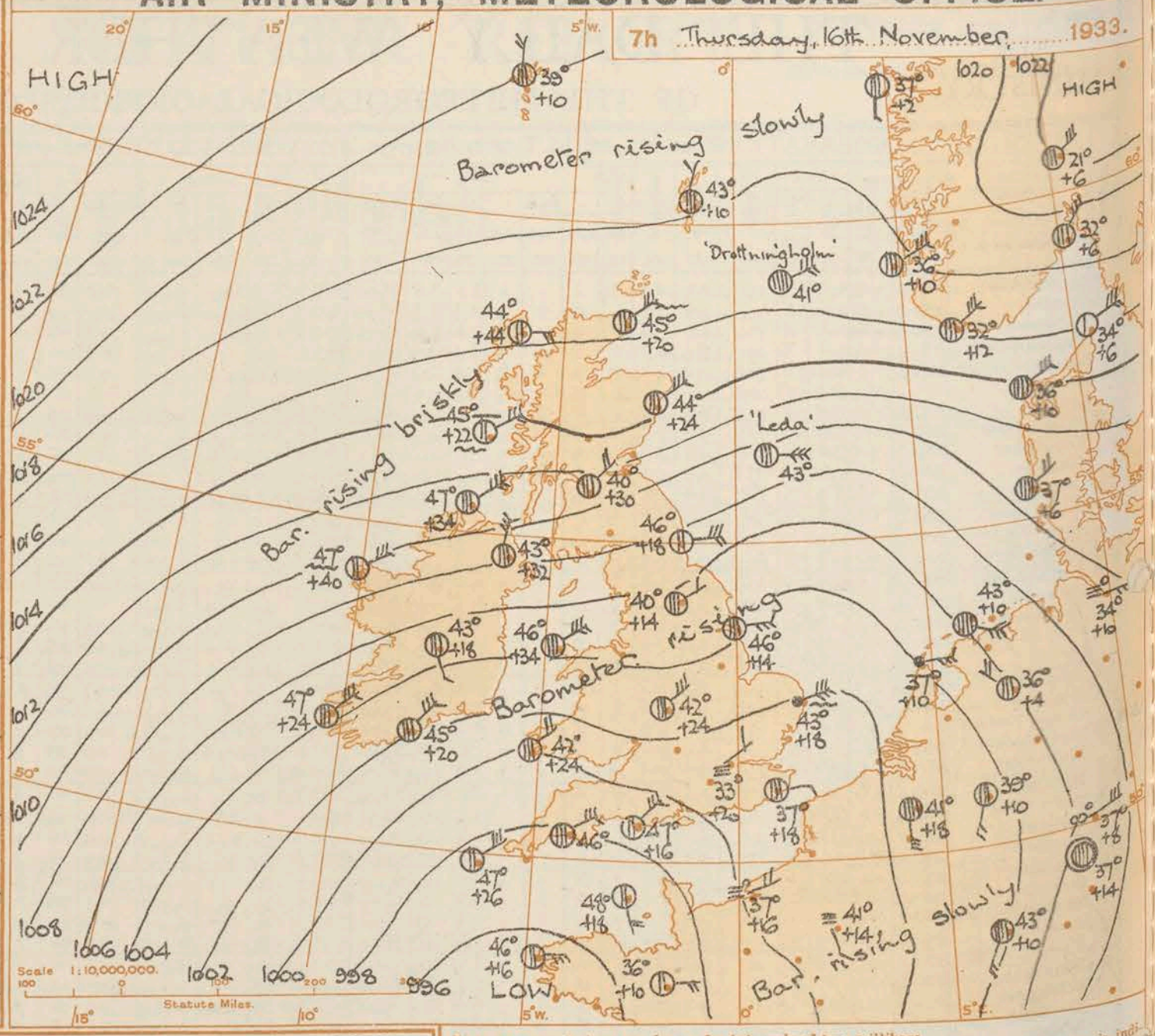
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for Wednesday 15th November 1933.

District.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 14th to 9h. 15th	Temperature. Max. 9h.—17h. 15th	Rainfall. Night. 17h. 14th to 9h. 15th	Rainfall. Day. 9h.—17h. 15th	Sunshine. Sunrise to Sunset. 15th
1	Tunbridge W.	oroc	obc	34	50	9	0·3	1·0
	Bournemouth	b	bm	41	51	14	-	7·3
	Ventnor ...	orb	bbcu	44	52	12	-	7·3
	Southsea ...	b	b	42	52	8	-	7·0
	Bognor Regis	bbcb	b	40	52	12	-	7·0
	Littlehampton	bc	bc	39	53	13	-	6·8
	Worthing ...	cbcb	bcb	39	52	11	-	6·3
	Brighton ...	cbcb	bc	40	52	9	-	4·5
	Eastbourne†	rc	cbcb	39	51	6	1	1·7
	Hastings† ...	oroc	cbic	45	49	7	2	1·5
	Folkestone ...	orr	orc	36	48	4	2	0·0
	Dover... ...	orr	roc	35	49	5	2	0·0
	Deal	r	rdo	35	47	-	4	0·0
	Ramsgate ...	r	rc	41	47	1	4	0·0
	Margate ...	cd	cd	41	47	3	1	0·0
2	Southend ...	or	oc	39	46	2	1	0·0
	Maldon ...	ro	oir	35	45	4	1	0·0
	Clacton-on-Sea	orr	orr	39	46	-	7	0·0
	Dovercourt ...	roc	roc	36	47	2	5	0·0
	Lowestoft ...	bcco	coir	35	48	-	5	0·0
	Skegness ...	oir	ir	37	47	trace	3	0·0
	Mablethorpe	or	or	37	45	1	1	0·0
	Cleethorpes ...	or	oro	34	47	1	2	0·0
3	Leamington S.	oro	oro	40	46	5	2	0·0
4	Cheltenham†	cmbc	bcbf	41	45	8	-	3·2
5	Bath	bbc	cbcb	38	50	7	-	6·1
	Weymouth ...	b	b	44	54	8	-	7·1
	Jersey ...	rcbcp	rqc	48	53	8	3	2·7
	Torquay ...	Rpbcj	bm	40	53	7	-	6·5
	Penzance ...	rcb	bccrr	43	52	9	2	3·4
	St. Ives ...	b	p	46	51	11	1	4·0
	Bude	cpbc	bcp	47	51	3	2	4·3
	Ilfracombe ...	bbcpc	bc	45	52	5	1	4·2
6	Aberystwyth	prbc	bc	41	51	5	-	6·1
7	Llandudno ...	bbc	bccm	43	53	7	-	5·6
	Colwyn Bay...	rbbcb	bco	39	52	9	-	4·6
	Rhyl	bcc	bcc	38	52	6	-	2·2
8	Wallasey ...	cbcfc	coir	43	51	10	2	0·0
	Southport‖ ...	odo	orr	42	47	13	5	0·0
	Blackpool ...	Ro	oro	42	46	19	3	0·0
	Morecambe ...	rripr	ddco	36	47	12	2	0·0
9	Ilkley... ...	r	r	33	44	20	15	0·0
10	Berwick-on-T.	orr	ro	37	48	1	1	0·0
11	Dunbar ...	crr	crr	40	47	2	3	0·0
12	Troon... ...	rrcoc	rcoc	40	49	6	0·3	0·3
	Douglas ...	bcbc	coir	40	49	15	1	1·4

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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 Nov. 1933.
1. S.E. England 2. E. England... 3. E. Midlands	Light or moderate east or northeast wind; cloudy, local showers; rather cold.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Moderate northeast wind, fresh locally; cloudy, or variable sky, local showers; moderate or rather low temperature.
9. N Midlands 10. N.E England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Moderate or fresh northeast wind; cloudy, some showers of rain or hail; rather cold.
13. A. W Scotld. B. N.W. Scotland.	Light or moderate northeasterly wind; mainly fair, perhaps local showers; moderate or rather low temperature.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Light northeasterly or variable wind; cloudy, local showers; rather cold.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 4 - 8.

GENERAL INFERENCE.

Pressure is high in a narrow belt from the Azores to Iceland and is also high over Scandinavia. A depression over the Bay of Biscay is moving south-southeast and filling up. There will be local showers especially in eastern districts.

FURTHER OUTLOOK.

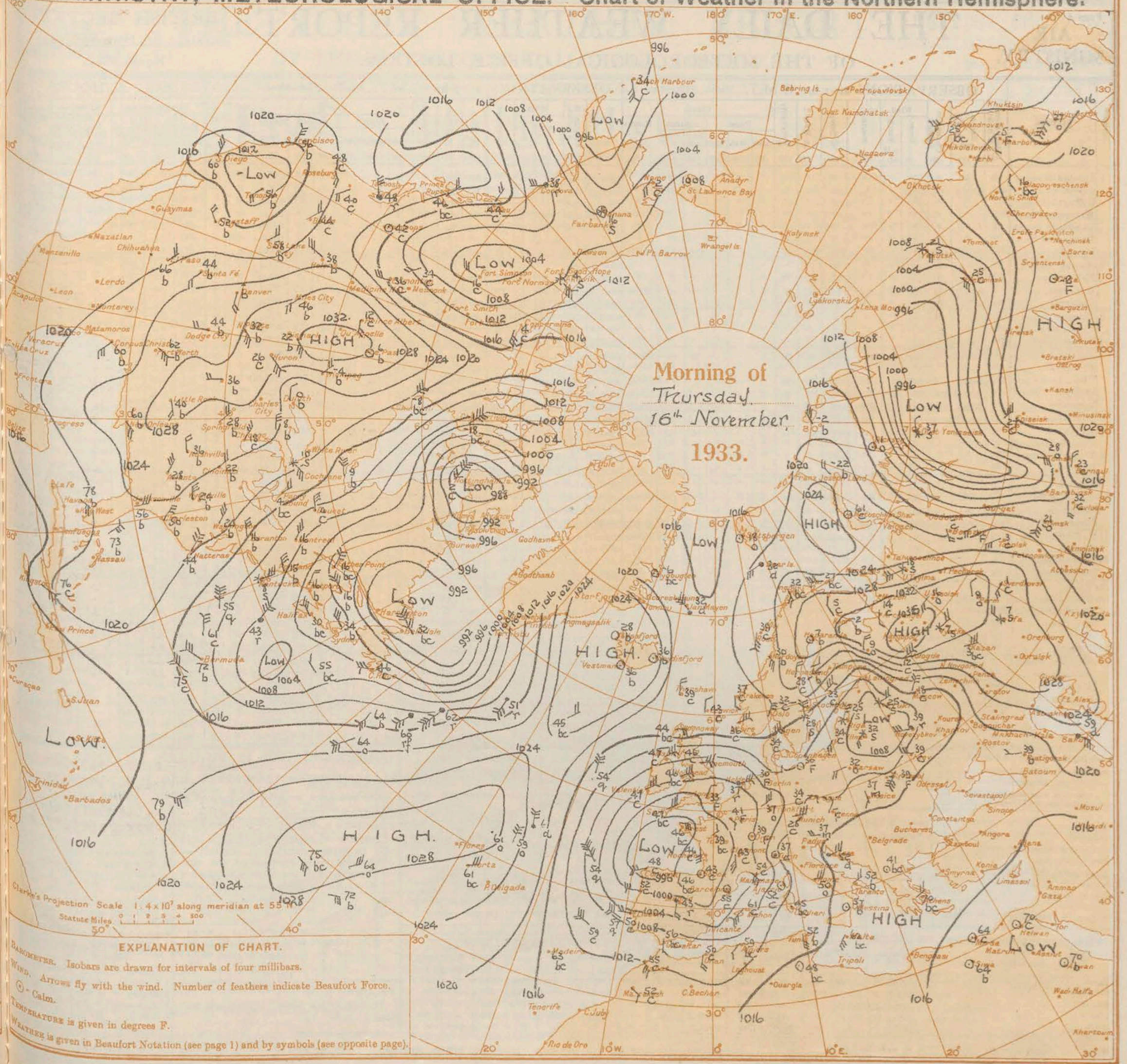
Rather cold with northeasterly wind and local wintry showers near the East Coast.

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

Forecasts issued at 1000 G.M.T.

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 16th. November 1933.

No. 26.292

OBSERVATIONS at 1 hr. G.M.T. 16th. November

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	997.5	+18	ESE	1	3o	34	95	6	-	-	-	0	0	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	997.9	+20	SW	2	bc	42	95	6	5	-	-	4-6	4-6	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	998.7	+6	E	5	r.r.	44	95	6	6	-	-	10	10	800
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	995.4	+12	SSW	3	o	48	85	8	5	-	-	10	10	1500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	993.1	+16	SE	1	b	48	85	8	3	-	-	1	1	2500
	Scilly (St. Mary's)	163	991.8	+16	SSE	3	bc	48	85	8	8	-	-	4-6	4-6	2500
	Guernsey	175	995.1	+10	-	0	bc	45	85	8	8	-	-	2-3	2-3	2500
6	Pembroke	142	995.8	+22	NE	2	bc	43	85	7	5	-	-	4-6	4-6	2500
7	Holyhead	26	996.8	+22	ENE	6	c	47	85	6	5	-	-	10	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	999.7	+10	ESE	6	c/r	46	85	6	6	2	-	7-8	10	2500
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	100	1003.7	+20	ESE	6	bc	47	75	7	9	-	-	4-6	4-6	1500
11	Inchkeith	190	1006.2	+16	E	3	bc	46	75	8	8	-	-	4-6	4-6	2500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts I.)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1012.2	+36	E	1	bc	44	85	7	8	-	-	2-3	2-3	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1012.3	+20	ESE	6	c	47	75	8	8	1	-	4-6	7-8	1500
16	Lerwick	54	1016.0	+10	E'N	2	bc	43	65	8	5	-	-	4-6	4-6	1500
17	Blacksod Point	18	1004.0	+42	ENE	4	bc	48	85	8	-	4	-	0	4-6	-
18	Malin Head	52	1005.1	+36	ENE	5	u	48	95	7	6	2	-	4-6	10	800
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	989.0	+30	NE	8	b	46	95	8	4	-	-	1	1	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 16th. November

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)	1001.5	+20	-	0	F	35	95	1	5	-	-	10	10	<150	1	*
Croydon	1001.2	+20	NE'N	1	F	33	95	0	5	-	-	10	10	<150	1	*
S. Farnborough	1001.3	+34	-	0	F	31	95	1	5	-	-	10	10	<150	4	*
Boscombe Down	1000.6	+20	N	2	b	33	95	6	5	-	-	1	1	2500	4	*
Calshot, (S'thmtn)	999.6	+14	NNW	3	c/r	40	85	7	8	7	-	4-6	9	2500	1	1
Dungeness	*	*	NNW	2	r.r.	*	*	6	3	-	*	9	9	1500	*	1
Lympne	1000.6	+18	E	1	c	37	95	7	8	-	-	7-8	7-8	2500	1	*
Shoeburyness	1000.8	+20	-	0	F	33	95	1	5	-	-	10	10	<150	1	*
Felixstowe	1000.4	+18	N'E	3	c	43	95	6	8	-	8	7-8	9	2500	1	1
Gorleston	1001.8	+14	E'N	6	rr	45	85	6	6	-	-	10	10	800	1	4
Cranwell	1003.9	+24	NE	2	o/r	41	95	6	6	-	-	10	10	800	1	*
Birmingham	1003.3	+24	NE	3	c	42	95	5	6	-	-	9+	9+	800	1	*
Upper Heyford	1001.9	+20	NNE	3	o	40	95	7	6	-	-	10	10	450	1	*
Ross-on-Wye	1002.0	+20	-	0	of	38	95	2	5	-	-	10	10	220	1	*
Portland Bill	998.2	+16	NE	4	bc	47	85	7	5	-	-	4-6	4-6	2500	1	3
Plymouth	998.5	-	ENE	4	c	46	85	8	8	-	3	9	9+	1500	1	1
The Lizard	997.2	+20	NE	3	c	48	85	8	3	6	-	7-8	9	2500	1	3
Scilly (St. Mary's)	997.0	+26	E'N	3	bc	47	85	8	2	6	-	2-3	4-6	2500	1	3
Guernsey	997.5	+18	SSE	2	bc	48	85	8	8	-	-	4-6	4-6	1500	1	2
Pembroke	1000.0	+24	NE	2	c	42	85	7	5	-	-	9+	9+	2500	1	1
Holyhead	1004.7	+34	E'N	5	c	46	85	6	5	4	9	1	7-8	1500	1	3
Chester (Sealand)	1004.4	+30	NE	2	r.r.	42	85	5	6	2	-	7-8	10	1500	1	*
L'pool (Bidston)	1004.7	+32	NE'N	3	r.d.	43	85	6	5	-	-	10	10	800	1	*
Manchester	1004.2	+22	ENE	3	m	44	85	4	5	3	-	4-6	10	1500	1	*
Harrogate	1005.9	+14	ENE	1	c	40	95	7	6	1	-	9	9+	2500	1	*
Spurn Head	1003.2	+14	E	4	c	46	75	7	5	2	-	7-8	10	2500	0	3
Catterick	1006.7	+20	NE'N	3	c/pr	42	85	7	8	-	-	9+	9+	2500	1	*
Tynemouth	1006.4	+18	E	5	bc/pr	46	75	7	9	-	-	4-6	4-6	1500	1	3
Inchkeith	1010.7	+20	E	3	c/pr	45	75	8	8	-	-	7-8	7-8	2500	1	3
Leuchars	1012.5	+24	NE	4	pr	44	85	8	9	-	-	7-8	7-8	1500	1	*
Renfrew (Abbotts I.)	1011.6	+30	NE	2	c	40	95	7	8	-	-	9+	9+	2500	1	*
Eskdalemuir	1009.5	+24	NNE	3	r.r.	39	85	7	6	-	-	9+	9+	800	1	
Tiree	1013.4	+22	E'N	5	bc	45	75	8	5	-	8	1	4-6	2500	0	4
Stornoway	1016.7	+44	E	2	bc	44	75	7	4	-	-	2-3	2-3	2500	1	1
Dalwhinnie	1014.6	+28	N	2	bc	35	95	8	4	-	-	4-6	4-6	1500	5	*
Aberdeen	1014.2	+24	ENE	4	c/pr	44	75	7	9	-	-	7-8	7-8	1500	1	3
Wick	1016.3	+20	NE'E	4	c/pr	45	75	8	8	1	-	4-6	7-8	1500	1	4
Lerwick	1018.7	+10	N'E	1	c	43	65	8	5	7	-	4-6	9	1500	0	*
Blacksod Point	1009.7	+40	ENE	4	bc	47	75	8	-	4	-	0	4-6	-	1	4
Malin Head	1010.7	+34	NE	5	c	47	95	7	4	8	-	4-6	7-8	1500	0	1
Aldergrove	1008.8	+32	NNE	4	c	43	85	8	5	-	-	9	9	2500	1	*
Donaghadee	1007.2	+24	ENE	5	q	47	75	7	5	-	-	7-8	7-8	1500	0	3
Birr Castle	1004.9	+18	SE	1	c/r	43	95	7	6	2	-	7-8	10	2500	1	*
Valentia Obsy.†	1004.4	+24	NE	4	c	47	85	8	8	3	-	7-8	7-8	1500	1	-
Roches Point	1002.0	+20	NE	4	c	45	85	8	3	-	-	7-8	7-8	2500	1	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 15th. Hrs. (36)
London (Kew)	50	31	27	3	Tr.	1.5
Croydon	50	31	26	2	Tr.	1.6
S. Farnborough	52	28	22	1	Tr.	3.4
Boscombe Down	51	30	28	Tr.	-	7.0
Calshot, (S'thmtn)	[illegible]	35	27	-	0.6	6.0
Dungeness	50	38	*	5	4	*
Lympne	46	34	28	5	1	0.0
Shoeburyness	46	30	29	4	-	0.0
Felixstowe	47	38	34	7	8	0.0
Gorleston	48	44	42	6	10	0.0
Cranwell	44	41	39	16	5	0.0
Birmingham	45	39	38	2	0.2	0.0
Upper Heyford	48	32	23	6	0.2	*
Ross-on-Wye	52	31	24	-	0.1	6.9
Portland Bill	52	44	*	-	1	*
Plymouth	53	45	42	1	3	6.2
The Lizard	52	45	*	2	Tr.	*
Scilly (St. Mary's)	50	46	*	3	0.2	1.6
Guernsey	52	43	36	6	1	2.6
Pembroke	52	39	*	2	1	4.1
Holyhead	52	45	42	-	0.3	6.1
Chester (Sealand)	47	42	38	2	1	0.1
L'pool (Bidston)	46	41	40	2	1	0.0
Manchester	47	44	41	5	Tr.	*
Harrogate	43	40	38	17	10	0.0
Spurn Head	48	44	*	6	5	0.0
Catterick	45	40	38	7	1	0.0
Tynemouth	48	44	40	9	1	*
Inchkeith	46	42	36	1	2	0.0
Leuchars	48	41	37	3	2	0.0
Renfrew (Abbotts I.)	46	39	34	0.4	0.2	0.0
Eskdalemuir	43	37	34	5	0.4	0.0
Tiree	48	44	41	3	Tr.	0.0
Stornoway	49	43	*	-	Tr.	0.2
Dalwhinnie	42	35	31	6	-	0.0
Aberdeen	48	43	40	1	3	0.0
Wick	49	42	*	1	1	*
Lerwick	47	40	*	1	0.6	0.3
Blacksod Point	50	44	*	3	-	*
Malin Head	50	46	*	(Tr.)	Tr.	6.9
Aldergrove	49	42	38	0.2	2	6.3
Donaghadee	50	46	*	1	0.1	*
Birr Castle	49	37	30	-	0.3	2.5
Valentia Obsy.†	49	42	37	4	0.1	0.3
Roches Point	50	43	*	2	2	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations, except Greenwich & Hampstead 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.	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
KEW	18	orrcr.c	bc3obm	bfeofe	50	31	27	3	Tr.	1.5	*	*	2
CROYDON	217	rrddbc	c3obc3o	bmwxffe	50	31	26	2	Tr.	1.6	*	*	0
GREENWICH (Royal Observatory)	149	dc	cm	cmxffefe	50	33	25	Tr.	Tr.	0.0	76	98	1
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
WESTMINSTER (St. James' Park)	27	*	*	*	49	33	31	0.2		0.1	67	95	*
‡REGENTS PK. (Botanic Gardens)	168	*	*	*	50	33	29	Tr.		0.2	69	100	*
CAMDEN SQUARE	110	oor	c	*	49	33	27	0.3	-	*	*	99	*
KENSINGTON	80	cod	cbcm	*	51	34	28	0.3	-	0.5	At 18h. 83	98	*
HAMPSTEAD OBSERVATORY	450	or	bc	of	48	30	25	1	0.2	1.0	*	100	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 16th.

SOUTH KENSINGTON. Max.	Time.	Min.	Time.
2.3	1h. 16m.	<0.3	11h. 15m. 7h. 16m.

KEW OBSERVATORY. Max.	Time.	Min.	Time.
1.9	4h. 16m.	0.2	13h. 15m.

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 15th. November Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 16th. November 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	996.9	SSW	2	3o	46	1001.3	SE	1	f	41	50	39	7	-
BRUSSELS	997.0	SE'S	4	r.r.	41	1002.6	S	3	o	41	46	37	2	1
BERLIN	1007.9	SE'S	2	m	34	1011.6	E'S	1	f	30	37	30	-	-
ZÜRICH	1005.6	NNW	1	m	39	1008.2	E	1	3o	36	45	34	-	Tr.
ROME	1008.4	S	4	c/pr	50	1017.8	NE	4	c	50?	61	37	0.1	-

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.

†4 hr observations are from Valentia W/T station ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 17th November 1933.

No. 26,293

OBSERVATIONS at 13h. G.M.T. 16th 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)...	1004.2	+8	ENE	3	c/f	45	85	4	5	-	-	9+	9+	2500
	Croydon ...	1004.1	+22	-	0	F	39	95	1	.	.	.	10	10	<150
	S. Farnborough	1003.8	+10	NNE	2	c	44	95	5	5	-	-	10	10	1500
	Boscombe Down	1003.4	+6 [red correction over +10]	NE	2	c	43	95	5	5	-	-	9+	9+	800
	Calshot, S'thmtn	1003.1	+10	N	4	c	43	85	6	5	3	-	9	9	4000
	Dungeness ...	*	*	SE	2	bc	*	*	7	4	4	*	4.6	4.6	1500
	Lympne ...	1003.5	+14	NE'N	1	ʒo	47	85	6	8	-	-	9	9	2500
2	Shoeburyness	1003.8	+14	NE	2	c/F	45	95	6	5	3	-	7.8	9	1500
	Felixstowe ...	1003.8	+14	NNW	2	c	48	85	7	3	6	1	4.6	7.8	4000
	Gorleston ...	1004.2	+10	ENE	5	roro	45	95	6	6	-	-	10	10	800
	Cranwell ...	1006.7	+8	NE	3	bc	45	85	7	8	-	1	4.6	4.6	2500
3	Birmingham ...	1006.3	+10	NE	3	bcf	44	85	3	6	4	-	4.6	7.8	1500
	Upper Heyford	1005.3	+18	ENE	4	c	44	85	6	9	3	-	7.8	9+	800
4	Ross-on-Wye ...	1005.2	+12	NE	3	c	45	75	6	1	9	-	2.3	9	2500
5	Portland Bill...	1002.2	+6	ENE	4	c	44	95	7	5	4	-	4.6	7.8	2500
	Plymouth ...	1001.6	+8	NE	4	c	47	75	8	7	3	-	4.6	7.8	4000
	The Lizard ...	1001.1	+6	NE	4	c	48	85	8	8	6	-	4.6	7.8	2500
	Scilly (St. Mary's)	1001.4	+8	ENE	4	bc	49	75	7	2	6	-	4.6	4.6	2500
	Guernsey ...	1000.5	+8	SE	2	bc	50	75	8	1	1	-	2.3	2.3	2500
6	Pembroke ...	1004.8 [red correction over 1004.6]	+20	ENE	3	ʒo	47	75	6	5	-	-	9+	9+	2500
7	Holyhead ...	1009.4	+14	NE'E	6	bc	47	75	7	2	-	-	4.6	4.6	1500
	Chester (Sealand)	1008.5	+12	NE	3	ʒo	46	75	5	5	3	-	2.3	4.6	4000
8	L'pool (Bidston)	1008.7	+6	NE'N	4	bc	45	75	6	7	-	-	4.6	4.6	2500
	Manchester	1008.4	+12	NE'E	5	ʒo	47	75	5	2	-	1	7.8	7.8	2500
9	Harrogate ...	1009.3	+14	ENE	3	c	43	85	7	6	7	-	7.8	9+	2500
10	Spurn Head ...	1006.9	+6	ENE	4	c	47	85	7	5	7	-	4.6	7.8	2500
	Catterick ...	1010.8	+18	NE'N	3	c/pro	44	75	8	8	-	-	7.8	7.8	1500
	Tynemouth ...	1012.2	+16	NE	6	c/phr	46	75	7	9	-	-	7.8	7.8	1500
11	Inchkeith ...	1015.3	+22	E	4	c	45	75	8	8	3	-	4.6	9	2500
	Leuchars ...	1016.9	+18	ENE	4	cjp*	46	65	8	8	-	-	7.8	7.8	1500
12	Renfrew (Abbotts I.)	1016.0	+22	E	3	cjp	43	85	8	9	-	1	9	9	2500
	Eskdalemuir ...	1014.2	+18	ENE	6	prs	40	85	7	6	-	-	10	10	800
13A	Tiree ...	1017.6	+16	ENE	4	b	47	75	9	7	4	-	Tr	Tr	4000
13B	Stornoway ...	1020.0	+10	ENE	2	bc	46	65	8	7	7	-	1	2.3	2500
15	Dalwhinnie ...	1018.4	+12	NNE	3	c	38	95	7	4	4	-	4.6	7.8	800
	Aberdeen ...	1018.0	+14	NE'E	3	bc	44	65	8	8	3	-	2.3	4.6	2500
	Wick ...	1019.8	+12	E	3	c	46	75	8	8	1	-	4.6	9	2500
16	Lerwick ...	1019.5	+4	ENE	1	c	44	75	8	5	7	-	7.8	9+	1500
17	Blacksod Point	1014.3	+20	ENE	5	bc	49	75	8	2	-	-	4.6	4.6	1500
18	Malin Head ...	1015.3	+16	NE	5	bc	47	85	7	8	-	-	4.6	4.6	1500
	Aldergrove ...	1013.2	+14	NE	5	ʒo	46	65	7	2	-	1	1	1	2500
	Donaghadee ...	1013.7	+16	E	4	q	47	75	7	9	3	-	2.3	4.6	1500
19	Birr Castle ...	1010.1	+20	ENE	3	c	44	85	7	5	-	5 [red]	4.6	7.8	2500
20	Valentia Obsy.	1008.6	+6	NE'N	6	bc	47	75	8	8	-	-	4.6	4.6	1500
	Roches Point...	1006.9	+30	NE	4	rr	46	85	7	6	-	-	10	10	1500

OBSERVATIONS at 18h. G.M.T. 16th November — 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)	Weather 7h.–13h. 16th (37)	Weather 13h.–18h. 16th (38)	Weather 18h. 16th to 1h. 17th (39)	Weather 1h.–7h. 17th (40)
London (Kew)	1006.8	+20	NE'E	3	o	44	85	6	5	-	-	10	10	2500	1	*	ofcm	cʒʒo	oc	cmo
Croydon	1006.4	+14	NE	2	m	43	85	4	5	-	-	10	10	1500	1	*	oFFe	oFFeom	ommocmo	cmoro
S. Farnborough	1006.3	+14	NE	2	c	43	95	6	5	-	-	10	10	800	1	*	Fecm	cmo	cmo	cmo
Boscombe Down	1006.7	+22	NE'N	3	c	42	95	6	5	-	-	9	9	1500	1	*	bFofc	cbocm	ccmbm	cmm
Calshot, S'thmtn	1005.4	+18	N'E	4	ʒo	45	85	6	5	3	-	2.3	4.6	2500	0	2	ofecmo	cmbcmo	bcmo	bcbwc
Dungeness	*	*	NE	2	roro	*	*	5	8	-	*	9	9	220	*	2*	bc	p	*	o
Lympne	1006.3	+16	N'E	3	bc/F	41	95	4	5	-	-	2.3	2.3	2500	1	*	cprmo	cmobcFF	bcbfmw	bmwcm
Shoeburyness	1005.9	+18	N'W	1	bc	41	95	6	5	-	-	2.3	2.3	4000	1	*	Fefec	cmo	bcmo	cprs [red: Flr]
Felixstowe	1006.5	+20	N	3	rr	43	95	6	6	-	-	10	10	1500	1	1	cprbc	bccrr	orrmo	orrcmo
Gorleston	1007.0	+20	NE	6	roro	44	95	6	6	-	-	10	10	800	1	4*	orrq	ororoq	orrql	orcq
Cranwell	1010.3	+20	NNE	3	bc	40	95	6	5	-	-	4.6	4.6	2500	1		cromoc	cprobc	cPRpr	opro
Birmingham	1009.9	+22	NNE	3	c	42	85	5	6	7	-	4.6	9+	1500	1	*	om(pr)	cpr	cpro	c
Upper Heyford	1008.2	0	NE	4	c	41	85	7	5	3	-	7.8	7.8	1500	1	*	rodoc	c	cbc	oroso
Ross-on-Wye	1008.5	+20	NE	4	c/ro	43	85	5	5	-	-	9	9	1500	1	*	ofomc	cogro	comobcc	cqc
Portland Bill	1005.2	+16	NE	4	c	44	85	7	5	-	-	10	10	2500	1	4	c	cproc	cbc	bcc
Plymouth	1006.1	+32	NNE	4	bc	46	75	7	7	3	-	4.6	4.6	2500	1	2	cbc	bc	bcc	c
The Lizard	1004.3	+20	NE	3	c	45	85	8	9	1	-	9+	10	2500	1	3	cprc	cproc	cproql	cq
Scilly (St. Mary's)	1004.4	+20	ENE	6	c	48	75	7	8	-	-	7.8	7.8	2500	1	3	bccbc	bcc	blbc	bcobc
Guernsey	1002.9	+20	E	3	bc	48	85	7	8	-	-	4.6	4.6	2500	0	3	bccbc	bc	bcbl	bcpr
Pembroke	1008.2	+20	NE	2	ʒo	44	75	6	5	-	-	7.8	7.8	2500	0	1	cbccʒo	bcʒoc	bccʒo	bc
Holyhead	1012.7	+22	NE'E	6	bc	47	75	7	2	-	-	4.6	4.6	2500	1	3*	bcpro	bc	bcq	bcc
Chester (Sealand)	1012.5	+24	NNE	3	ʒo	41	75	5	5	-	-	1	1	4000	1	*	mocbcʒo	bcbʒ	b	bcb
L'pool (Bidston)	1012.6	+20	NNE	4	ʒo	41	85	5	5	3	-	1	1	1500	1		ombc	bccprc	bw	bw
Manchester	1011.9	+14	NE'E	4	b	41	85	5	6	-	-	1	1	1500	1	*	cbbcm	bcprob	bmobc	cprob
Harrogate	1013.0	+10	NE	2	c/pr	39	95	7	6	-	-	7.8	7.8	2500	1	*	cbcc	PHRob	cbp	bbc
Spurn Head	1009.2	+10	NE'E	6	q	44	85	7	3	2	-	4.6	7.8	4000	1	4	cphr	cqpr	qpr	prhc
Catterick	1013.8	+16	N'W	3	bc	41	85	7	6	-	-	4.6	4.6	1500	1	*	cprobc	bccprbc	bcprcrro	orrmobc
Tynemouth	1014.2	+12	NE	6	bc/prh	45	75	8	9	-	-	4.6	4.6	1500	1	4	bccphrq	cbcprhq	bcbq	bcphrq
Inchkeith	1018.1	+20	NE	4	bc	42	75	8	8	-	-	4.6	4.6	2500	1	3	cpr	cprphc	ciro	ciro
Leuchars	1019.2	+16	N	2	bc	39	85	8	4	-	1	4.6	4.6	1500	1	*	prprh	bccprobc	bcprobx	bxcrc
Renfrew (Abbotts I.)	1018.9	+18	NE'N	2	b	38	85	8	5	-	-	Tr	Tr	5700	1	*	bccprq	bccjpb	bbc	bcoxmo
Eskdalemuir	1016.7	+8	NNE	5	b	37	85	8	5	-	-	Tr	Tr	1500	1	*	prsq	prsb	bbcx	bcx
Tiree	1020.5	+20	ENE	4	b	45	75	9	7	4	-	Tr	Tr	4000	0	3	bcb	b	b	bc [red: k]
Stornoway	1022.1	+6	N	1	bc	38	85	8	5	4	-	2.3	2.3	1500	1	1	b	b [red]	b, cprc	ccR
Dalwhinnie	1020.8	+12	N	1	bc	33	95	8	4	-	-	2.3	2.3	4000	1	*	c	bc	*	c
Aberdeen	1020.2	+14	N	3	pr	40	85	7	8	-	-	9	9	2500	1	2	cprbc	bccpro	crrcd	crcdo
Wick	1020.1	+4	NW	2	c	40	85	8	5	7	8	4.6	9+	2500	1	2*	cprc	c	cprc	cpr
Lerwick	1019.6	0	NE	1	c	42	85	7	5	7	-	7.8	9	1500	0		c	cpro	cir	c
Blacksod Point	1017.8	+18	ENE	4	bc	47	75	8	2	-	-	4.6	4.6	1500	1	4	bc	bc	bc	bc
Malin Head	1018.6	+18	NE	4	bc	47	85	7	4	-	-	4.6	4.6	1500	0	1	c	bccbc	bc	bc
Aldergrove	1017.3	+24	NE	4	b	41	75	8	8	-	-	Tr	Tr	2500	1	*	cprobc	bcpro	b	bx
Donaghadee	1016.3	+20	E	5	q	47	65	8	8	3	-	4.6	4.6	2500	0	4	dbcq	bcq	bcq	bcq
Birr Castle	1013.7	+18	NE	2	c	42	85	8	8	-	-	7.8	7.8	2500	1	*	irc	bcprc	cbc	bx
Valentia Obsy.	1012.6	+26	NE'N	6	bc	46	75	8	8	-	-	2.3	2.3	1500	1	4	cbccbc	bccbc	bcb	bbc
Roches Point	1010.7	+24	NE	4	bc	44	85	8	3	-	-	4.6	4.6	2500	1	4	corr	orbc	cbcb	bc

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. gale.

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.

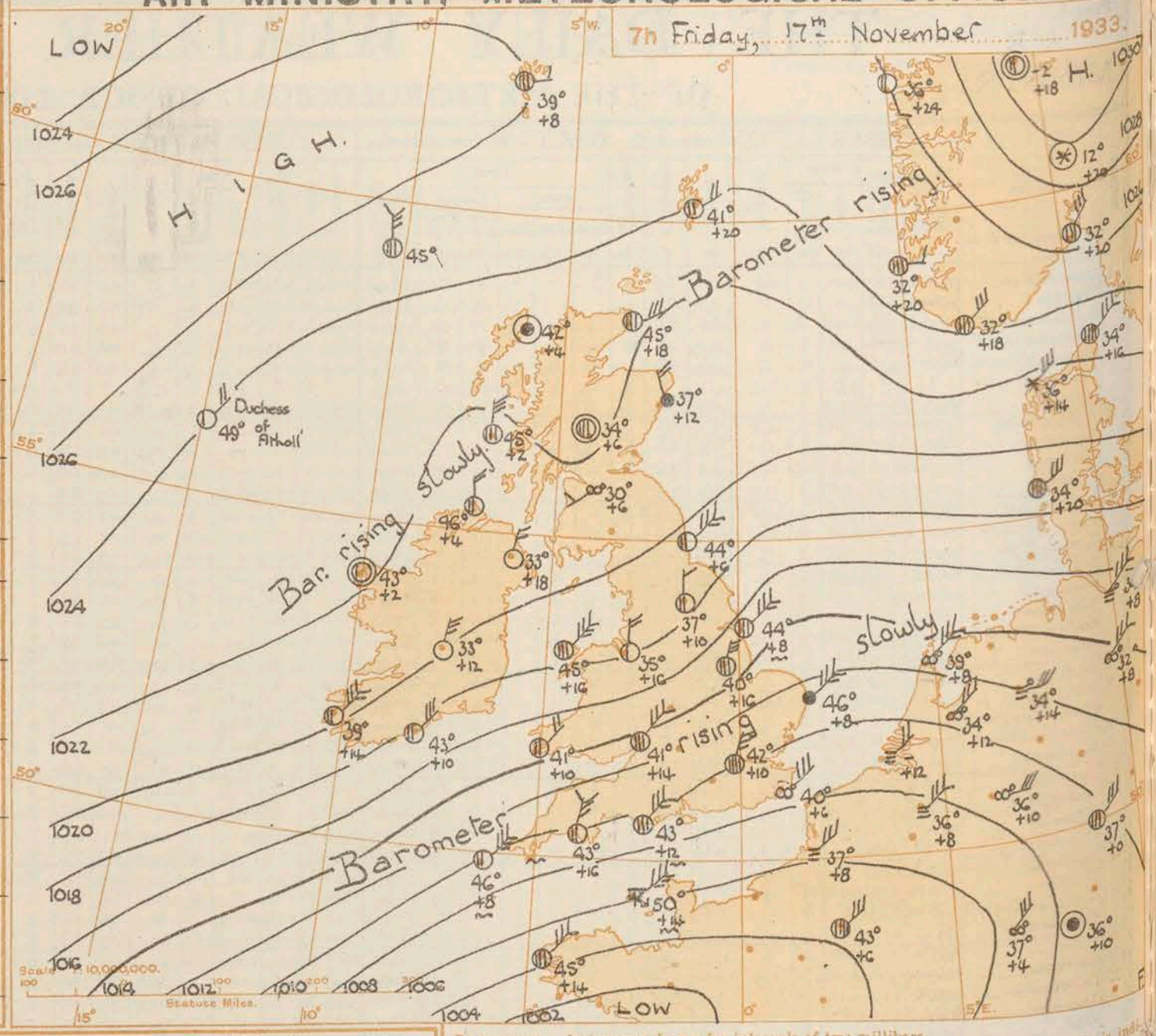
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 16th NOVEMBER 1933.

Districts.	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.	fco	ocm	32	46	–	–	1·2
	Bournemouth	fo	co	34	43	2	–	0·3
	Ventnor ...	rcop	oucz	43	46	0·5	0·3	0·1
	Southsea ...	bcc	ccm	39	44	–	–	0·5
	Bognor Regis	bcbc	bccco	39	45	4	–	2·3
	Littlehampton	bc	bc	35	43	1	–	1·8
	Worthing ...	bcebc	bco	38	47	2	–	3·0
	Brighton ...	cbcbcb	bc	39	49	3	–	2·3
	Eastbourne†	bcorr	rroc	39	46	5	3	1·0
	Hastings† ...	bcopc	cbcc	40	48	13	0·5	3·9
	Folkestone ...	bc	bc	38	50	0·5	–	4·1
	Dover... ...	cbc	bcbmbc	38	52	3	–	4·3
	Deal	cbc	cbf	35	46	1	–	4·4
	Ramsgate ...	cbcf	bcf	38	46	Trace	–	3·1
	Margate ...	cm	cmf	39	44	Trace	–	0·1
2	Southend ...	ofe	ocmf	34	45	0·2	Trace	0·0
	Maldon ...	fdb	cbc	33	47	0·3	–	3·2
	Clacton-on-Sea	bc	bcc	39	48	1	–	5·4
	Dovercourt ...	rbcc	rbcc	40	50	5	Trace	4·2
	Lowestoft ...	oir	copr	43	45	11	1	0·0
	Skegness ...	bcor	orbc	43	47	4	2	0·7
	Mablethorpe	oco	orh	44	47	5	0·3	1·1
	Cleethorpes ...	bch	cpc	44	47	5	2	1·7
3	Leamington S.	o	odo	37	45	–	0·2	0·0
4	Cheltenham†	omc	copc	39	44	Trace	Trace	0·1
5	Bath	cc	cc	30	45	Trace	–	0·0
	Weymouth ...	mcc	bc	37	45	1	–	2·4
	Jersey ...	pcbc	bcc	45	50	1	–	7·3
	Torquay ...	Rpbcm	cpobcz	41	47	8	Trace	1·6
	Penzance ...	cbccb	c	44	52	Trace	–	1·2
	St. Ives ...	c	c	44	51	0·3	–	0·9
	Bude	bc	bc	41	47	0·2	–	6·2
	Ilfracombe ...	o	co	41	49	–	–	0·1
6	Aberystwyth	prc	bccz	38	47	0·5	–	1·4
7	Llandudno ...	c	c	43	47	1	–	1·1
	Colwyn Bay...	obccc	cbcpc	42	46	0·5	Trace	0·3
	Rhyl	bc	bccc	41	47	4	2·1	1·3
8	Wallasey ...	cbc	ircbc	42	51	1	0·3	2·7
	Southport‖ ...	cbcb	bbcb	41	47	1	–	3·8
	Blackpool ...	c	c	42	48	1	–	4·3
	Morecambe ...	cbcbc	cbbbc	41	46	–	–	4·4
9	Ilkley... ...	cprc	cPRH	40	44	11	6	0·3
10	Berwick-on-T.	bcPR	robc	43	47	0·5	0·4	2·5
11	Dunbar ...	bcih	bc	42	47	3	–	1·6
12	Troon... ...	ccbcb	bcbcc	39	49	–	–	4·0
	Douglas ...	ccbc	bc	42	47	1	–	4·5

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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 Nov., 1933.
1. S.E. England 2. E. England... 3. E. Midlands	Moderate or fresh northeasterly wind, strong locally; cloudy, occasional rain or sleet locally; rather cold.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Moderate or fresh northeasterly wind, strong locally; cloudy, bright intervals, local showers of rain or sleet; rather cold.
9. N Midlands 10. N.E England 11. S.E. Scotland	Light or moderate northeasterly winds; cloudy, local showers of rain, hail or sleet; rather cold.
12. S.W. Scotland & Isle of Man	Light or moderate northeasterly wind; cloudy, bright intervals, local showers of rain or sleet; rather cold.
13. A. W Scotld. B. N.W. Scotland.	Light northeast or variable wind; cloudy, bright intervals, local showers; rather cold.
14. Mid-Scotland 15. N.E. Scotland	Light or moderate northeast or variable wind; cloudy, local showers of rain, hail or sleet; rather cold.
16. Orkneys and Shetlands. 17. N.W. Ireland 18. N.E. Ireland	Light or moderate northeasterly wind; cloudy, bright intervals, local showers; rather cold.
19. S.E. Ireland 20. S.W. Ireland	Moderate or fresh northeasterly wind; cloudy, bright intervals, local showers; rather cold.

GENERAL INFERENCE.

Anticyclones are situated over Scandinavia and to northwest of the British Isles while a depression is centred over Portugal. Weather will be rather cold with northeasterly winds. There will be occasional rain or sleet locally, especially in eastern districts.

FURTHER OUTLOOK.

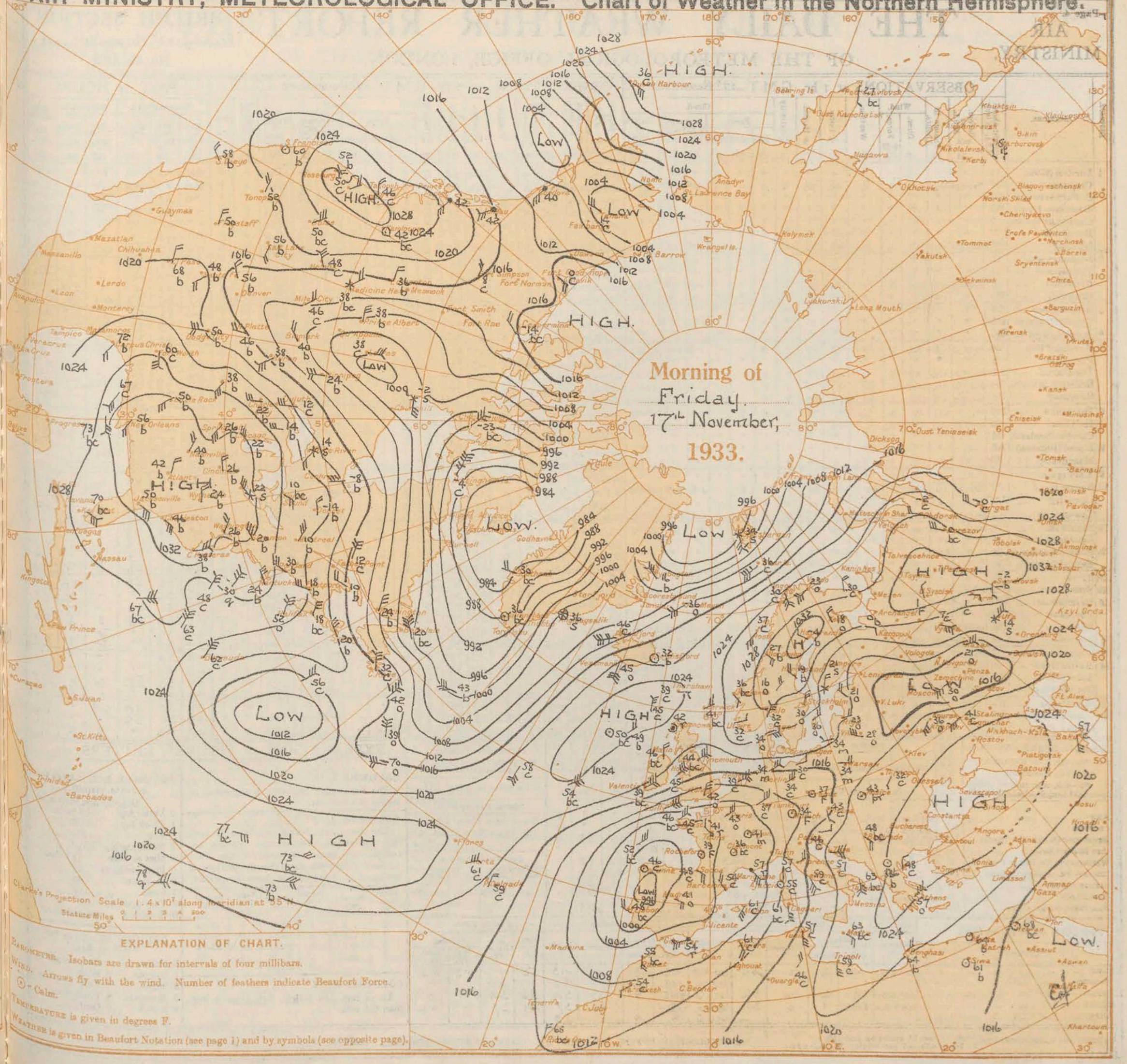
Rather cold.

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

Friday, 17th November 1933.

No. 26,293.

OBSERVATIONS at 1 hr. G.M.T. 17th November

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	1009.0	+6	NE	3	c	42	95	6	5	–	–	10	10	800
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1007.9	+2	N'E	2	m	40	95	4	–	–	–	0	0	–
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1009.6	+8	E'N	3	rr	44	95	6	6	–	–	10	10	800
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1007.0	-6	NE	5	bc	43	85	7	5	–	–	4-6	4-6	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1007.3	+10	NE	5	q	44	85	7	3	–	–	9	9	2500
	Scilly (St. Mary's)	163	1007.6	+12	ENE	6	bc	47	75	7	2	–	–	2-3	2-3	4000
	Guernsey	175	1005.0	+6	ENE	2	bc	49	85	8	8	–	–	4-6	4-6	2500
6	Pembroke	142	1012.1	+12	NE	3	3o	41	75	6	8	7	–	4-6	7-8	2500
7	Holyhead	26	1016.0	+10	NE'E	6	c	46	75	7	2	–	–	7-8	7-8	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1011.6	+6	E'N	5	pr	43	85	7	3	2	–	4-6	7-8	4000
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	100	1017.2	+8	NE	6	bc/pr	43	85	8	9	–	–	4-6	4-6	1500
11	Inchkeith	190	1020.4	+10	N	2	c	39	85	8	5	–	–	9	9	2500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts I.)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1021.5	0	NW	2	pr	43	95	6	8	7	–	7-8	10	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1019.8	-4	WNW	3	c	38	95	8	8	1	–	4-6	7-8	1500
16	Lerwick	54	1020.9	+12	NE	2	c	41	85	7	8	–	–	7-8	7-8	1500
17	Blacksod Point	18	1021.5	+4	ENE	3	b	44	75	8	2	–	–	1	1	2500
18	Malin Head	52	1021.0	+2	NE	3	b	46	75	7	4	–	–	Tr	Tr	2500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1016.3	+14	ENE	3	b	42	95	8	4	–	–	1	1	4000
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 17th November

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)
1	London (Kew)	1010.9	+8	NE'N	4	c	44	85	6	5	3	–	9	9+	2500	1	*
	Croydon	1010.3	+10	NNE	3	o/r	42	95	4	5	–	–	10	10	800	1	*
	S. Farnborough	1010.6	+14	NE'N	3	c	42	95	6	5	–	–	9+	9+	800	1	*
	Boscombe Down	1010.6	+12	NNE	4	c	41	95	6	5	–	–	10	10	800	1	*
	Calshot (S'thmtn)	1009.4	+12	N'E	4	c	43	85	7	5	7	–	4-6	9	1500	0	1
	Dungeness	*	*	NE	4	q	*	*	6	8	–	*	7-8	7-8	1500	*	2
	Lympne	1009.3	+6	NE	3	3o	40	95	6	5	–	–	7-8	7-8	2500	1	*
2	Shoeburyness	1010.1	+10	NNE	3	pr	43	95	7	5	2	–	7-8	9	1500	1	*
	Felixstowe	1010.9	+16	NE	3	c/r	45	95	6	8	2	–	7-8	10	1500	1	1
	Gorleston	1011.4	+8	NE'E	5	cr	46	95	6	6	–	–	10	10	1500	1	4
	Cranwell	1015.0	+16	NNE	3	c	40	95	8	8	–	–	9	9	2500	1	*
3	Birmingham	1015.0	+14	NNE	4	c	39	95	5	5	–	–	9+	9+	800	1	*
	Upper Heyford	1012.7	+12	NNE	5	rr	41	95	6	6	–	–	10	10	450	1	*
4	Ross-on-Wye	1013.2	+14	NE'E	4	c	41	85	6	5	1	–	7-8	10	2500	1	*
5	Portland Bill	1008.6	+12	NE	5	c	43	85	7	5	4	–	4-6	10	2500	0	4
	Plymouth	1010.1	+16	NNE	4	bc	43	75	7	5	–	–	4-6	4-6	1500	1	1
	The Lizard	1009.4	+12	NE	6	q	45	75	7	8	–	–	10	10	2500	1	4
	Scilly (St. Mary's)	1009.4	+8	ENE	6	bc	46	75	7	2	–	–	2-3	2-3	4000	0	4
	Guernsey	1006.5	+14	E'N	6	tbr	50	85	7	6	–	–	7-8	7-8	1500	1	4
6	Pembroke	1014.8	+10	NE	2	bc	41	75	7	1	1	–	4-6	4-6	2500	0	1
7	Holyhead	1018.0	+16	NE'E	6	c	45	75	8	4	–	–	7-8	7-8	2500	1	1
	Chester (Sealand)	1018.2	+16	NNW	2	b	35	85	6	5	–	–	1	1	5700	1	*
8	L'pool (Bidston)	1018.2	+24	NNE	3	b	36	95	7	–	–	–	0	0	–	0	*
	Manchester	1017.4	+18	NE'E	4	3o	39	85	5	8	–	–	1	1	2500	1	*
9	Harrogate	1018.5	+10	N	1	bc	37	85	8	6	4	–	1	2-3	2500	1	*
10	Spurn Head	1015.0	+8	ENE	5	c	44	85	7	3	7	–	4-6	7-8	2500	1	4
	Catterick	1019.3	+14	NW'W	1	bc	36	95	7	8	–	–	4-6	4-6	1500	1	*
	Tynemouth	1019.2	+6	NE	5	bc/pr	44	65	8	2	–	–	4-6	4-6	2500	1	3
11	Inchkeith	1021.0	+8	–	0	c/r	40	85	7	8	7	–	7-8	10	2500	1	2
	Leuchars	1021.0	+8	W	2	c	37	95	7	5	7	–	7-8	10	2500	1	*
12	Renfrew (Abbotts I.)	1021.4	+6	SW'W	1	3o	30	95	6	5	–	–	9	9	4000	4	*
	Eskdalemuir	1021.1	+10	N	2	c	34	95	8	5	–	–	7-8	7-8	1500	1	
13A	Tiree	1021.9	+2	N	3	c	45	85	9	5	7	–	9	9+	1500	1	3
13B	Stornoway	1022.6	+4	–	0	cr	42	95	7	6	7	–	7-8	9	800	1	0
15	Dalwhinnie	1022.5	+6	–	0	c	34	95	8	4	2	–	4-6	7-8	2500	5	*
	Aberdeen	1021.8	+12	NW'W	2	cd	37	95	6	6	–	–	9+	9+	1500	1	2
	Wick	1022.1	+18	E	3	c/pr	45	85	8	8	1	–	4-6	9	1500	1	2
16	Lerwick	1024.1	+20	ENE	2	bc	41	75	8	4	8	1	4-6	4-6	2500	0	*
17	Blacksod Point	1022.9	+2	–	0	b	43	75	8	2	–	–	Tr	Tr	4000	0	2
18	Malin Head	1021.7	+4	N	2	bc	46	85	8	4	–	–	2-3	2-3	2500	0	0
	Aldergrove	1021.7	+8	NNE	2	b	33	85	8	–	–	–	0	0	–	4	*
	Donaghadee	1021.0	+6	E	4	q	45	65	8	9	–	–	2-3	2-3	2500	0	3
19	Birr Castle	1020.5	+12	NNE	3	b	33	95	8	–	–	–	0	0	–	4	*
20	Valentia Obsy.†	1020.1	+14	NE	5	bc	39	85	8	5	–	–	4-6	4-6	1500	1	*
	Roches Point	1016.7	+10	NE	3	bc	43	95	8	3	–	–	2-3	2-3	2500	0	3

PAST 24 HOURS.

Division	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)	46	42	40	Tr	–	0.0
	Croydon	44	41	39	Tr	Tr	0.0
	S. Farnborough	45	41	39	Tr	–	0.1
	Boscombe Down	43	38	36	Tr	Tr	0.4
	Calshot (S'thmtn)	45	41	37	Tr	–	0.7
	Dungeness	50	40	*	1	3	*
	Lympne	48	39	32	0.2	0.1	0.3
2	Shoeburyness	47	38	36	–	1	0.1
	Felixstowe	49	42	41	S	4	4.2
	Gorleston	46	42	41	1	20	0.0
	Cranwell	46	36	33	0.1	3	0.8
3	Birmingham	44	38	35	1	0.3	0.0
	Upper Heyford	44	39	37	Tr	Tr	*
4	Ross-on-Wye	45	40	36	0.2	–	0.1
5	Portland Bill	47	42	*	Tr	–	*
	Plymouth	48	42	39	–	–	0.3
	The Lizard	49	42	*	4	0.1	*
	Scilly (St. Mary's)	51	45	*	–	–	3.0
	Guernsey	51	46	41	–	1	5.1
6	Pembroke	48	40	*	Tr	–	2.8
7	Holyhead	49	44	41	0.2	–	2.1
	Chester (Sealand)	46	35	29	–	–	0.9
8	L'pool (Bidston)	46	36	33	0.1	–	2.4
	Manchester	47	36	29	Tr	Tr	*
9	Harrogate	44	36	32	6	0.1	0.8
10	Spurn Head	49	41	*	0.4	7	2.3
	Catterick	44	36	30	1	6	0.2
	Tynemouth	46	42	35	1	4	*
11	Inchkeith	47	39	35	1	1	2.1
	Leuchars	47	34	28	1	1	2.1
12	Renfrew (Abbotts I.)	44	26	19	1	–	2.2
	Eskdalemuir	44	31	28	3	Tr	2.2
13A	Tiree	47	36	23	–	0.2	7.8
13B	Stornoway	46	36	*	–	4	6.8
15	Dalwhinnie	38	31	23	–	–	1.1
	Aberdeen	45	36	33	2	2	0.8
	Wick	46	36	*	Tr	1	*
16	Lerwick	44	39	*	Tr	1	0.0
17	Blacksod Point	49	38	*	–	–	*
18	Malin Head	48	44	*	–	–	3.1
	Aldergrove	46	33	25	Tr	–	4.7
	Donaghadee	48	43	*	–	–	*
19	Birr Castle	46	32	24	0.5	–	1.1
20	Valentia Obsy.†	48	38	36	–	–	1.9
	Roches Point	47	43	*	3	–	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich & Hampstead 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.
Kew	18	ofcm	o33	ocm	46	42	40	Tr	–	0.0	*	*	5
Croydon	217	ofFe	ofFcom	ommcm	44	41	39	Tr	Tr	0.0	*	*	4
Greenwich (Royal Observatory)	149	FeFe	cm	cmcdrm	46	41	37	Tr	1	0.0	85	93	4
City (Bunhill Row)	—				*	*	*	*	*	0.0	*	*	*
Westminster (St James' Park)	27	*	*	*	47	41	39	1		0.0	83	89	*
†Regents Pk. (Botanic Gardens)	168	*	*	*	45	41	38	2		0.0	84	91	*
Camden Square	110	oc	c	*	45	42	36	–	2	*	*	97	*
Kensington	80	comcbc	bc	*	45	42	37	–	1	0.0	At 18h. 87	94	*
Hampstead Observatory	450	o	c	orm	43	39	33	–	2	0.1	*	95	*

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	8h. 16th	<0.3	21h. 16th to 7h. 17th

Kew Observatory Max.	Time.	Min.	Time.
1.6	13h. 16th	0.1	5h. 17th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 16th November Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 17th November 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	1003.8	NE	2	c	45	1004.9	NE	3	o	43	50	41	0.3	0.3
Brussels						1003.0	NE	4	cf-	36		34		–
Berlin	1014.0	E	2	m	32	1016.6	ENE	3	3o	34	36	34	–	–
Zürich	1008.2	ENE	1	c	37	1009.5	WSW	1	m	37	41	37	–	0.2
Rome						1016.6	S	4	c	59				

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. ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 18th November 1933.

No. 26294

OBSERVATIONS at 13h. G.M.T. 17th November

Division	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)	1012.7	-4	NNE	4	c	47	75	6	5	3	-	2.3	7.8	2500
	Croydon	1012.3	+4	NE'N	4	3o	46	85	5	5	3	-	4.6	9	800
	S. Farnborough	1012.6	+2	NE'N	3	c	45	85	6	6	2	-	9	10	1500
	Boscombe Down	1012.8	+6	NNE	3	c	43	85	6	5	-	-	9+	9+	450
	Calshot, S'thmtn	1011.8	+6	N	4	3o	46	85	6	5	-	-	9+	9+	5700
	Dungeness	*	*	ENE	4	q	*	*	6	8	7	*	7.8	9	1500 220
	Lympne	1011.0	+2	NE	5	c	47	75	7	8	3	-	7.8	9	2500
2	Shoeburyness	1011.8	+2	NNE	4	c|pr	46	85	6	8	3	-	9	9	4000
	Felixstowe	1012.4	-2	NNE	4	c	48	75	7	8	-	-	9	9	2500
	Gorleston	1013.1	0	NE	5	c	47	85	6	9	-	-	9+	9+	2500
	Cranwell	1016.4	-2	NE'N	4	bc	45	75	8	8	3	-	2.3	2.3	2500
3	Birmingham	1015.8	+2	NNE	4	m	43	75	4	6	6	-	2.3	4.6	1500
	Upper Heyford	1014.6	+6	NE	4	ir	43	85	7	6	1	-	9+	10	450
4	Ross-on-Wye	1015.1	0	NE	3	3o	43	75	5	5	-	-	10	10	2500
5	Portland Bill	1011.1	+12	NE	5	c	47	75	7	5	4	-	4.6	9	2500
	Plymouth	1012.0	+2	NE	5	c	45	75	7	5	-	-	9+	9+	1500
	The Lizard	1011.4	+2	NE	5	q	45	85	7	8	7	-	9	10	2500
	Scilly (St. Mary's)	1011.8	+2	ENE	5	c	47	75	7	8	6	-	7.8	9	2500
	Guernsey	1009.3	+6	NE'E	5	ir	48	85	6	8	-	-	9+	9+	1500
6	Pembroke	1014.8	-10	NE	3	q	45	65	7	5	7	-	2.3	7.8	4000
7	Holyhead	1019.4	-2	NE'E	5	bc	45	65	8	4	-	-	4.6	4.6	2500
	Chester (Sealand)	1019.1	-4	NNE	3	3o	44	65	5	4	-	-	4.6	4.6	4000
8	L'pool (Bidston)	1019.5	0	NNE	4	b	43	85	6	1	-	-	1	1	4000
	Manchester	1018.6	0	NE'E	5	3o	44	65	5	1	-	-	4.6	4.6	2500
9	Harrogate	1018.7	0	NE	3	b	43	65	9	8	-	-	1	1	2500
10	Spurn Head	1016.0	+4	NE	6	ir	45	85	7	3	7	-	4.6	7.8	2500
	Catterick	1019.6	-10	N	3	bc|pr	42	75	8	8	-	-	4.6	4.6	2500
	Tynemouth	1020.3	+4	NE	4	bc	44	65	8	9	-	-	4.6	4.6	1500
11	Inchkeith	1023.1	+2	NNE	2	c	42	85	8	8	6	-	4.6	7.8	4000
	Leuchars	1023.3	+2	N	2	cip	43	85	7	8	-	1	7.8	7.8	1500
12	Renfrew (Abbotts I.)	1023.1	-2	-	0	bf -	38	95	3	5	-	-	1	1	2500
	Eskdalemuir	1022.3	-4	NNE	3	bc	37	85	8	5	7	-	4.6	4.6	800
13A	Tiree	1013.0	0	ENE	3	bc	47	75	9	4	4	-	1	2.3	2500
13B	Stornoway	1024.5	+8	NE	2	bc	45	85	8	8	7	1	2.3	4.6	1500
15	Dalwhinnie	·	0	N	2	bc	37	85	8	4	4	-	4.6	4.6	800
	Aberdeen	1024.6	+6	NNW	2	bc|p	41	85	7	9	3	3	2.3	4.6	1500
	Wick	1025.2	+16	NE	3	c	44	75	8	8	1	-	4.6	7.8	2500
16	Lerwick	1027.0	+4	E	3	bc	43	65	9	4	8	1	2.3	4.6	2500
17	Blacksod Point	1023.1	+4	-	0	bc	48	75	9	2	-	-	2.3	2.3	5700
18	Malin Head	1022.0	-4	N	2	r	43	95	8	8	-	-	9+	9+	1500
	Aldergrove	1022.0	-10	NNW	1	3o	45	75	7	8	-	-	4.6	4.6	2500
	Donaghadee	1021.5	-6	E	3	bc	46	65	8	8	3	-	2.3	4.6	2500
19	Birr Castle	1021.2	-4	NE	2	b	45	75	8	-	-	-	0	0	-
20	Valentia Obsy.	1020.8	-6	NE'E	4	b	45	65	8	1	-	-	Tr	Tr	2500
	Roches Point	1018.3	-4	NE	4	bc	46	75	8	3	-	-	2.3	2.3	2500

OBSERVATIONS at 18h. G.M.T. 17th November

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)
1	London (Kew)	1013.5	+8	N'E	4	c	45	85	5	5	-	-	7.8	7.8	1500	1	*
	Croydon	1012.8	+6	NE	3	3o	45	85	5	5	-	-	10	10	800	1	*
	S. Farnborough	1013.1	+4	NNE	2	c	44	85	6	5	-	-	10	10	1500	1	*
	Boscombe Down	1013.8	+10	NNE	3	c	42	85	7	5	-	-	10	10	800	1	*
	Calshot, S'thmtn	1012.4	+8	N	4	c	45	75	7	5	3	-	4.6	9+	4000	0	1
	Dungeness	*	*	ENE	4	q	*	*	6	8	-	*	9	9	1500	*	3
	Lympne	1011.8	+6	NE'N	4	3o	44	75	5	5	-	-	10	10	800	1	*
2	Shoeburyness	1012.2	+4	NNE	4	c|pr	45	85	6	8	-	-	7.8	7.8	2500	1	*
	Felixstowe	1012.7	+2	NNE	3	c	46	85	6	5	-	-	10	10	2500	1	2
	Gorleston	1013.3	+4	NE'E	6	c	47	85	6	9	-	-	9+	9+	2500	0	4
	Cranwell	1016.8	+4	N'E	3	c|pr	41	95	7	5	-	-	10	10	2500	1	*
3	Birmingham	1016.5	+4	NNE	3	c	41	85	5	5	-	-	9	9	1500	1	*
	Upper Heyford	1015.1	+6	NE	4	d.d.	41	95	6	6	-	-	10	10	450	1	*
4	Ross-on-Wye	1016.0	+4	NNE	3	3o	42	75	5	5	-	-	9+	9+	2500	1	*
5	Portland Bill	1012.1	+12	NE	5	c	44	85	7	5	-	-	10	10	2500	0	4
	Plymouth	1012.7	+6	NNE	4	bc	44	75	7	5	3	-	2.3	4.6	1500	1	2
	The Lizard	1012.8	+10	NE'N	5	q	45	85	7	8	-	-	9+	9+	2500	1	4
	Scilly (St. Mary's)	1012.4	+4	NE'E	6	bc	46	75	7	4	7	-	2.3	4.6	2500	0	4
	Guernsey	1009.8	-6	ENE	7	ir	49	85	6	8	-	-	10	10	1500	2	4
6	Pembroke	1017.3	+8	NE	3	q	42	75	7	5	1	-	4.6	4.6	4000	0	1
7	Holyhead	1019.2	+2	NE'E	5	bc	44	65	7	2	-	-	2.3	2.3	2500	1	3
	Chester (Sealand)	1019.4	+2	NW'W	2	3o	37	85	5	4	-	-	2.3	2.3	4000	1	*
8	L'pool (Bidston)	1019.5	0	NNE	3	b	39	75	6	-	-	-	0	0	-	0	*
	Manchester	1019.3	0	ENE	4	b	39	85	5	-	-	-	0	0	-	1	*
9	Harrogate	1019.5	0	N	1	b	37	85	7	-	-	-	0	0	-	1	*
10	Spurn Head	1016.0	+2	ENE	6	c	47	85	7	3	2	-	4.6	7.8	2500	1	4
	Catterick	1020.6	+8	NNE	2	pr	39	95	6	3	-	-	7.8	7.8	1500	1	*
	Tynemouth	1021.2	+2	ENE	4	bc|prh	44	75	8	2	-	-	4.6	4.6	2500	1	3
11	Inchkeith	1024.0	+8	NE	5	c|phr	41	85	8	9	-	-	9+	9+	2500	1	4
	Leuchars	1024.8	+14	N	2	cir	36	95	7	9	-	-	9	9	1500	1	*
12	Renfrew (Abbotts I.)	1024.6	+14	NE'E	3	bc	38	85	7	5	-	-	2.3	2.3	4000	1	*
	Eskdalemuir	1023.1	+8	NNE	4	prs	34	95	8	5	7	-	4.6	4.6	1500	1	*
13A	Tiree	1024.7	+14	E	3	bc	41	85	9	5	5	-	2.3	4.6	2500	0	2
13B	Stornoway	1026.8	+10	E	2	bc	44	75	8	4	6	-	4.6	4.6	1500	1	1
15	Dalwhinnie	1026.4	+6	NE	1	bc	31	95	8	4	1	-	2.3	4.6	2500	0	
	Aberdeen	1026.1	+14	ENE	4	pr	43	65	7	8	-	-	7.8	7.8	1500	1	2
	Wick	1027.4	+16	E	4	c	44	75	8	8	6	-	4.6	7.8	2500	1	2
16	Lerwick	1029.8	+18	SE	1	bc	40	85	9	5	-	-	4.6	4.6	1500	0	*
17	Blacksod Point	1022.2	0	-	0	bc	42	85	9	9	-	-	4.6	4.6	2500	1	2
18	Malin Head	1022.6	+10	NE	3	bc	46	85	7	4	-	-	4.6	4.6	1500	1	1
	Aldergrove	1022.6	+6	NE'N	2	bc	39	85	8	8	-	-	2.3	2.3	4000	1	*
	Donaghadee	1021.7	+2	E	3	bc	44	65	8	8	3	-	4.6	4.6	2500	0	2
19	Birr Castle	1021.4	+4	NE	1	b	37	95	7	-	-	-	0	0	-	1	*
20	Valentia Obsy.	1020.7	+2	NE	4	b	42	75	9	1	-	-	Tr	Tr	2500	1	2
	Roches Point	1018.8	+8	NE	3	bc	43	75	8	3	-	-	2.3	2.3	2500	0	3

PAST 24 HOURS.

Stations.	Weather. 7h.–13h. 17th (37)	Weather. 13h.–18h. 17th (38)	Weather. 18h. 17th to 1h. 18th (39)	Weather. 1h.–7h. 18th (40)
London (Kew)	crbcm.	cm.	m.c	ccdm.
Croydon	cm.r.fm	cr.mm.	om.dd.ddm.	omdd
S. Farnborough	cir.cm.	bccm.	cm.	od.d.m.
Boscombe Down	cep.cm.	cm.c	c	c
Calshot, S'thmtn	bcm.cm.	bcm.cm.	c	c
Dungeness	c	c	*	o
Lympne	cbcm.c	cm.d.	orrm.	or.d.m
Shoeburyness	cprm.	cprm.	bcom.	cpor.
Felixstowe	cpbc	cp.3o	cr.3o	cr.3o
Gorleston	oircq	coircq	cq	cocd.q
Cranwell	bccpr.	cpr.	cpr.	cprpr.
Birmingham	pr.bc	bc	c	cir.
Upper Heyford	ir.q	crd.	cd.	cd.
Ross-on-Wye	cid.	c3o	p.com.	oc
Portland Bill	bcc	c	c	c
Plymouth	bcc	cbc	bcb	b,c
The Lizard	cq	cqbcc	cq	cq
Scilly (St. Mary's)	bcc	cbc	bc	bcobc
Guernsey	TLHR	oir	oir.	oRro
Pembroke	bccqc	cqbcq	bcq3b	c3
Holyhead	cbc	bcb	bcc	cr.m.
Chester (Sealand)	bxinbc	3bcb	b,cpr	rr.
L'pool (Bidston)	wb	b	b,cr.	m.c
Manchester	bmbc	bcprb	b3oc	cr.m.
Harrogate	b	bcb	obcr	ccr
Spurn Head	cir.	prc	co	ccr
Catterick	bcm.(pr)	bcprcm.	cm.rr	oprm.
Tynemouth	bc	bcprhc	bcphmint	ourbcq
Inchkeith	cprbc	cphrq	cpr.irc	cphrq
Leuchars	p.PRbc	prshiR.	cprprs	cpr.bc
Renfrew (Abbotts I.)	cxmff	bf.bccp.	bcbxcr.	ccr.
Eskdalemuir	prs.ps.bc	bcprs	prs	cprs
Tiree	cpr.bc	bc	bcb	b
Stornoway	cir.bc	bc	bc	cb
Dalwhinnie	bc	bc	*	bc
Aberdeen	crd.bcpr	bccpr.	cpr.	cprq
Wick	c	c	bcpr.	cpr.
Lerwick	cbc	bc	bccpr.bc	bc
Blacksod Point	bc	prc	prc	bc
Malin Head	bccir	cprbc	c	bcc
Aldergrove	bx	bcb	b	b,cr.r
Donaghadee	bc	bc	bbcc	cprcc
Birr Castle	b	b	bx	bxorr
Valentia Obsy.	bcb	b	b	bx
Roches Point	bc	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.
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. ⚍ gale.

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.

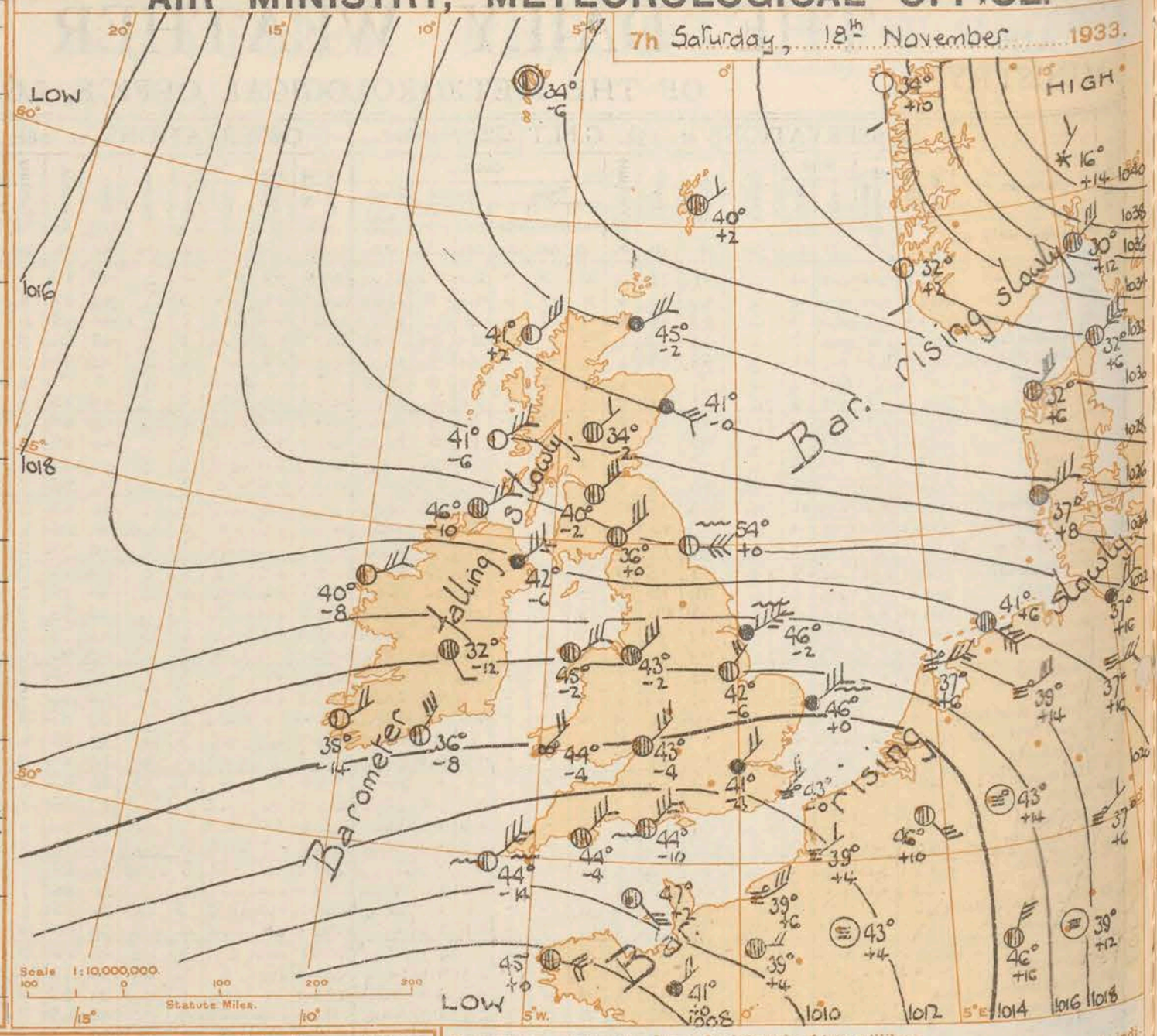
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for 17th November 1933.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	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.	0	pdo	39	46	–	1	0·0
	Bournemouth	0	bco	34	47	–	–	2·7
	Ventnor ...	0bo3	0bc3	40	47	–	–	4·2
	Southsea ...	bbc	cm	40	48	–	–	2·6
	Bognor Regis	bc	bcoin	39	48	0·3	Trace	2·9
	Littlehampton	c	cbccr	34	48	–	Trace	2·7
	Worthing ...	bcb	cir	39	48	–	Trace	4·0
	Brighton ...	cbc	bdc	41	49	–	Trace	4·3
	Eastbourne†	bbc	bcc	40	49	1	–	3·5
	Hastings‡ ...	bc	bcc	41	51	1	–	3·4
	Folkestone ...	bcmo	bcco	40	49	–	–	2·6
	Dover... ...	bcc	co	42	51	–	–	2·5
	Deal	bcb	bco	38	49	1	–	3·9
	Ramsgate ...	cbc	c	42	50	–	–	3·3
	Margate ...	cbc	bcc	41	49	–	–	2·1
2	Southend ...	cmor	omr	39	47	2	1	0·6
	Maldon ...	rc	c	41	47	3	–	0·1
	Clacton-on-Sea	cphc	c	42	47	3	0·4	0·1
	Dovercourt ...	rbcc	bcc	43	47	6	–	0·2
	Lowestoft ...	Roc	c	42	48	22	–	1·7
	Skegness ...	bcor	o	41	47	1	Trace	0·7
	Mablethorpe	coro	oro	42	47	5	Trace	0·0
	Cleethorpes ...	cp	cp	41	46	7	1	2·2
3	Leamington S.	c	c	39	45	Trace	–	0·3
4	Cheltenham†	oibc	co	39	44	1	0·3	0·0
5	Bath	cdo	cido	35	45	–	Trace	0·0
	Weymouth ...	bc	cb	40	49	–	–	3·7
	Jersey ...	rc	cbcc	43	51	11	–	1·8
	Torquay ...	cq	cq	42	47	–	–	2·2
	Penzance ...	c	cbc	42	46	–	–	0·3
	St. Ives ...	o	o	42	50	–	–	0·0
	Bude	c	cbc	41	47	–	–	1·2
	Ilfracombe ...	og	o	43	47	–	–	0·0
6	Aberystwyth	xbc	bc3	40	47	–	–	8·2
7	Llandudno ...	bc	bbc	42	46	–	–	3·5
	Colwyn Bay...	bcbcb	bcb	41	44	–	–	3·5
	Rhyl	b	b	41	45	–	–	6·4
8	Wallasey ...	bcb	bbcb	36	46	–	–	6·4
	Southport‖ ...	b	bcb	33	46	–	–	6·8
	Blackpool ...	cbcb	bc	35	44	–	–	7·0
	Morecambe ...	cbc	b	37	43	–	–	7·0
9	Ilkley... ...	b	bprob	36	44	1	Trace	6·3
10	Berwick-on-T.	obc	probc	39	44	1	0·3	1·8
11	Dunbar ...	crrph	crr	36	44	7	3	1·1
12	Troon... ...	bcf	bccf	32	43	–	–	2·7
	Douglas ...	xbc	bccb	38	45	–	–	7·0

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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 Nov., 1933.
1. S.E. England 2. E. England... 3. E. Midlands	Moderate northeast or east wind, fresh locally; cloudy or dull, local rain or drizzle; rather cold.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Moderate northeast or east wind, fresh locally; cloudy, brighter intervals, occasional local rain; rather cold.
9. N Midlands 10. N.E. England 11. S.E. Scotland	Moderate or fresh easterly wind; cloudy, showers, perhaps sleet locally; rather cold.
12. S.W. Scotland & Isle of Man	As 4 - 8.
13. A. W. Scotld. B. N.W. Scotland.	Moderate easterly winds; mainly fair but local showers; rather cold.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Light or moderate east or southeast wind; cloudy, bright intervals, local showers; rather cold.
17. N.W. Ireland 18. N.E. Ireland	Moderate easterly wind, fresh locally; cloudy, bright intervals, local showers; rather cold.
19. S.E. Ireland 20. S.W. Ireland	Moderate northeast or east wind; bright intervals, local showers; rather cold.

GENERAL INFERENCE.

A large anticyclone is situated over Scandinavia. A depression is centred over Spain while another depression in Mid-Atlantic is moving northeast. There will be bright intervals and local showers in the North and West but in the Southeast weather will be cloudy or dull with occasional rain or drizzle.

FURTHER OUTLOOK.

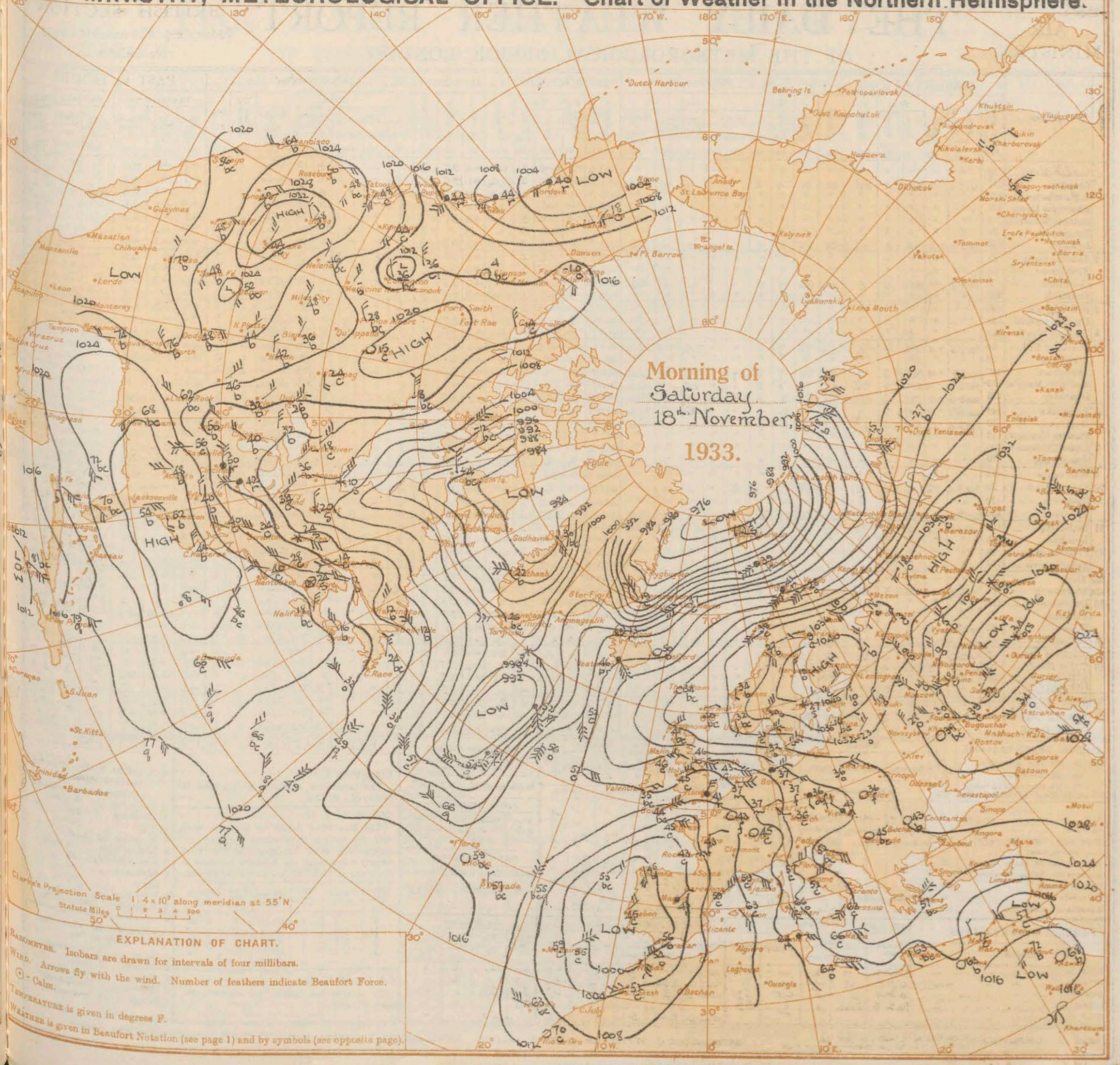
Rather cold and unsettled.

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.



Page 4.
AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Saturday, 18th November 1933.
No. 26294

OBSERVATIONS at 1 hr. G.M.T. 18th November

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	1013.5	-2	NE'N	3	dd	42	95	4	5	-	-	10	10	450
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1013.0	+2	NE	3	ir$_0$	42	95	5	6	-	-	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1015.2	0	NE'E	6	c	44	85	7	9	-	-	10	10	1500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1012.5	+4	NE	4	c	44	85	7	5	-	-	7-8	7-8	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1012.7	-4	NE'N	5	q	45	85	7	8	7	-	7-8	9+	2500
	Scilly (St. Mary's)	163	1012.9	-4	ENE	5	bc	45	75	7	2	-	-	4-6	4-6	4000
	Guernsey ...	175	1010.5	-4	NE	5	o/r	50	75	6	5	-	-	10	10	1500
6	Pembroke ...	142	1015.9	-2	NE	2	3$_0$	40	75	6	1	-	-	Tr.	Tr.	5700
7	Holyhead ...	26	1018.3	-12	ENE	5	ir$_0$	45	85	6	6	-	-	10	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1017.4	+2	E	6	c	47	75	7	-	2	-	0	10	-
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	100	1022.0	0	SE	5	ir	44	95	7	6	-	-	10	10	1500
11	Inchkeith ...	190	1024.5	-2	E	4	bc	42	85	8	8	-	-	4-6	4-6	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts I.)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1027.7	0	ESE	3	bc	43	75	7	8	6	-	2-3	2-3	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1028.9	-2	E	3	bc	44	75	8	8	1	-	4-6	4-6	2500
16	Lerwick ...	54	1031.0	-4	ESE	3	bc	40	65	8	5	-	-	2-3	2-3	1500
17	Blacksod Point	18	1022.2	0	E	3	bc	42	85	8	9	-	-	4-6	4-6	2500
18	Malin Head ...	52	1023.1	-2	NE	4	bc	44	85	7	4	-	-	4-6	4-6	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1019.0	-10	E'N	2	b	41	95	8	-	-	-	0	0	-
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 18th November — 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 17th Hrs. (36)
London (Kew)	1013.6	-2	NNE	3	id	42	95	6	5	2	-	7-8	10	1500	1	*	47	41	40	2	0.1	1.3
Croydon	1013.2	-4	NE'E	2	d$_0$d$_0$	41	95	4	5	-	-	10	10	450	1	*	47	41	40	2	1	0.0
S. Farnborough	1013.3	-4	NE'N	2	d$_0$d$_0$	41	95	6	5	-	-	10	10	450	1	*	46	40	38	0.5	0.2	0.6
Boscombe Down	1013.4	-4	NE	2	c	40	95	7	5	-	-	10	10	1500	1	*	45	40	38	Tr	-	0.5
Calshot, (S'thmtn)	1012.6	-4	N'E	3	c	43	85	7	5	-	-	10	10	2500	0	1	47	42	39	-	-	1.7
Dungeness	*	*	ESE	3	c	*	*	5	8	-	*	9+	9+	1500	*	1	49	42	41	Tr	-	*
Lympne	1012.7	0	ENE	2	m	43	95	4	5	-	-	10	10	450	1	*	48	42	~~40~~	Tr	Tr.	4.9
Shoeburyness	1013.1	0	N'E	2	c	43	95	6	5	2	-	7-8	9	1500	1	*	48	41	36	1	0.2	0.4
Felixstowe	1013.4	0	ENE	3	c	46	85	6	5	-	-	10	10	1500	1	3	48	43	42	0.1	0.1	0.2
Gorleston	1014.4	0	ENE	4	r$_0$r$_0$	46	85	6	6	-	-	10	10	1500	0	4	48	43	41	Tr	Tr.	0.0
Cranwell	1016.1	-6	NE	2	c/pr	42	95	8	8	-	-	9+	9+	1500	1	*	46	41	39	0.4	0.4	3.0
Birmingham	1015.5	-4	NNE	3	cr$_0$	41	95	5	6	-	-	9-	9+	800	1	*	44	39	39	0.1	0.6	0.0
Upper Heyford	1014.6	-8	NE'E	3	o/d	41	85	7	5	-	-	10	10	800	1	*	43	41	40	1	Tr.	*
Ross-on-Wye	1014.7	-4	NE'E	3	c	43	85	7	5	-	-	10	10	2500	1	*	44	41	39	Tr	Tr.	0.0
Portland Bill	1011.1	-10	NE'E	5	c	44	85	7	5	-	-	7-8	7-8	2500	0	4	48	42	*	-	-	*
Plymouth	1011.4	-4	NE	4	c	44	85	7	5	-	-	9+	9+	1500	1	1	46	43	39	-	-	0.8
The Lizard	1010.7	-4	NE	5	q	45	85	7	8	6	-	4-6	7-8	2500	0	4	47	41	*	-	-	*
Scilly (St. Mary's)	1010.7	-14	E'N	5	bc	44	75	7	5	-	-	2-3	2-3	4000	0	4	47	43	*	-	-	3.2
Guernsey	1010.5	+2	ESE	4	o	47	85	6	5	-	-	10	10	1500	2	3	50	46	45	30	5	0.0
Pembroke	1014.2	-4	NE	2	3$_0$	44	75	6	5	-	-	9	9	2500	0	1	46	40	*	-	-	3.1
Holyhead	1017.3	-2	E'N	4	c	45	85	6	5	8	-	4-6	9	1500	1	3	47	43	39	-	0.3	6.4
Chester (Sealand)	1017.7	-2	ENE	3	o/r	43	85	6	5	-	-	10	10	1500	1	*	45	35	30	-	1	3.4
L'pool (Bidston)	1018.2	0	NE'N	3	c	42	85	6	5	-	-	9	9	1500	0	*	43	36	33	-	0.2	5.5
Manchester	1016.5	-2	E	5	cr$_0$	44	85	5	6	-	-	9+	9+	1500	1	*	45	38	33	Tr	Tr.	*
Harrogate	1020.3	0	NE	3	cr$_0$	42	85	7	6	2	-	9+	10	2500	1	*	43	37	33	-	3	6.0
Spurn Head	1015.7	-2	E	7	cr	46	95	7	6	2	-	4-6	9+	2500	1	5	47	44	*	1	3	2.5
Catterick	1020.5	-2	NE	3	cr$_0$	42	85	6	6	2	-	9	10	1500	1	*	43	39	35	0.3	7	4.6
Tynemouth	1021.6	0	ESE	6	bc	46	75	8	9	-	-	4-6	4-6	1500	1	4	45	42	39	0.3	7	*
Inchkeith	1024.1	0	ENE	3	c/pr	42	95	8	8	-	-	9+	9+	2500	1	3	43	38	34	4	6	1.3
Leuchars	1024.4	0	ENE	4	c	43	75	7	8	-	8	7-8	9	2500	1	*	43	36	32	6	3	1.5
Renfrew (Abbotts I.)	1023.8	-2	NE	3	c/r	40	95	7	5	3	-	9	9+	2500	1	*	42	33	26	0.2	0.2	2.0
Eskdalemuir	1022.8	0	NE	3	c	36	95	7	5	7	-	4-6	7-8	800	1		40	33	32	0.3	2	1.4
Tiree	1024.0	-6	ENE	4	b	41	75	9	4	4	-	Tr	Tr	4000	0	2	48	38	32	Tr	-	4.7
Stornoway	1027.5	+2	ENE	3	bc	41	85	8	8	6	-	2-3	4-6	2500	1	1	47	37	*	0.6	-	5.5
Dalwhinnie	1026.1	-2	NE	1	c	34	95	8	4	2	-	4-6	7-8	1500	5	*	37	27	19	-	-	2.0
Aberdeen	1026.6	0	ESE	4	pr	41	75	7	9	-	-	9	9	1500	1	3	43	39	38	1	3	0.9
Wick	1028.2	-2	E	4	pr$_0$	45	75	8	8	1	-	4-6	7-8	2500	1	2	46	41	*	-	0.3	*
Lerwick	1031.6	+2	E'N	1	c	40	65	8	5	2	-	4-6	7-8	1500	0	*	44	39	*	-	-	3.9
Blacksod Point	1019.6	-8	E	4	bc	40	95	9	-	4	-	0	4-6	-	1	3	48	38	*	2	Tr	*
Malin Head	1020.8	-10	ENE	4	c	46	95	7	8	-	-	9+	9+	1500	0	1	47	43	*	4	Tr	0.9
Aldergrove	1019.7	-6	ENE	5	cr$_0$	42	85	7	5	-	-	9	9	1500	1	*	45	34	26	Tr	3	3.8
Donaghadee	1019.8	-4	NE	4	c	45	75	7	5	-	-	7-8	7-8	1500	1	3	46	41	*	-	-	*
Birr Castle	1016.9	-12	SE	1	[illegible]	32	95	7	6	-	-	10	10	2500	1	*	45	28	13	-	2	6.5
Valentia Obsy.†	1015.7	-14	ENE	2	b	35	85	8	5	-	-	Tr	Tr	2500	1	*	45	34	23	-	Tr.	7.3
Roches Point	1015.0	-8	NE	3	bc	36	95	8	3	-	-	2-3	2-3	2500	0	3	47	35	*	-	-	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich & Hampstead 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.	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	crbcrm	cm$_0$	m$_0$cdd	47	41	40	2	0.1	1.3	*	*	4
Croydon	217	cmr$_0$r$_0$fm	cr$_0$mm$_0$	omddom	47	41	40	2	1	0.0	*	*	3
Greenwich (Royal Observatory)	149	crbm$_0$	crm$_0$	od$_0$d$_0$f	47	41	37	1	0.5	0.3	78	97	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.7	*	*	*
Westminster (St. James' Park)	27	*	*	*	49	41	40	1		0.4	76	91	*
‡Regents Pk. (Botanic Gardens)	168	*	*	*	47	41	40	0.5		1.5	81	96	*
Camden Square	110	orc	c	*	48	41	37	Tr.	0.5	*	*	97	*
Kensington	80	corcbc	bcco	*	47	41	37	1	0.4	0.7	At 18h. 84	96	*
Hampstead Observatory	450	or	bc	ofd	45	39	38	0.3	0.4	2.5	*	99	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.
24 hrs. ended 7h. G.M.T. 18th

South Kensington. Max.	Time.	Min.	Time.
0.6	9h-10h 17th	<0.3	22h 17th to 7h 18th

Kew Observatory. Max.	Time.	Min.	Time.
0.4	21h 17th	0.1	3h 18th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 17th November Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 18th November 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	1009.0	N	2	m	41	1012.1	-	0	f	43	45	41	8	-
Brussels	1010.3	NE	4	o	37	1013.6	ESE	3	c	46	39		2	
Berlin	1013.4	E	5	c/r	39	1022.9	E	3	f	37	39	32	1	-
Zürich	1012.4	ENE	1	3$_0$	39						45		-	
Rome						1020.3	ENE	3	c	52		50		-

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 ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 19th November 1933.

No. 26295

OBSERVATIONS at 13h. G.M.T. 18th November

District No.	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)	1012.8	-16	E'S	2	o§-	45	85	3	5	-	-	10	10	450
	Croydon	1013.0	-8	E'N	2	o/§	44	95	4	5	-	-	10	10	800
	S. Farnborough	1012.8	-8	E	1	§	43	95	2	·	·	·	10	10	<150
	Boscombe Down	1011.8	-14	ENE	3	c	43	95	6	5	-	-	9+	9+	800
	Calshot, S'thmtn	1011.6	-12	NE'N	4	3o	45	85	6	5	-	-	10	10	1500
	Dungeness	*	*	E	2	c	*	*	6	5	-	*	9	9	1500
	Lympne	1013.4	-8	ESE	3	3o	43	85	6	5	-	-	9+	9+	800
2	Shoeburyness	1013.4	-6	ESE	2	c	46	85	6	5	-	-	9+	9+	1500
	Felixstowe	1013.8	-2	SE'E	3	c	47	85	6	5	-	-	10	10	1500
	Gorleston	1013.9	-12	SE'E	4	c/r.	47	95	6	9	-	-	9+	9+	1500
	Cranwell	1014.5	-14	NE'E	2	d§	44	95	3	5	-	-	10	10	<150
3	Birmingham	1013.4	-10	ENE	3	d.d.§	42	95	3	6	-	-	10	10	800
	Upper Heyford	1013.0	-14	E	2	m	42	95	4	5	-	-	10	10	450
4	Ross-on-Wye	1012.3	-10	E	2	c	43	85	6	5	-	-	10	10	2500
5	Portland Bill	1010.4	-12	ENE	5	o	42	85	6	5	-	-	10	10	2500
	Plymouth	1009.5	-18	NE	4	c	46	75	7	5	3	-	7.8	9+	450
	The Lizard	1008.7	-10	NE	5	c	48	85	7	8	-	-	10	10	2500
	Scilly (St. Mary's)	1008.3	-16	E'N	4	c	49	85	6	5	-	-	9	9	2500
	Guernsey	1009.5	-10	SE'S	3	o	46	85	6	5	-	-	10	10	1500
6	Pembroke	1012.7	-20	ESE	1	c	45	75	7	5	-	-	9+	9+	2500
7	Holyhead	1014.5	-22	ENE	5	c	47	85	7	5	-	-	10	10	1500
	Chester (Sealand)	1014.4	-22	E'N	3	3o	44	85	5	5	-	-	10	10	1500
8	L'pool (Bidston)	1014.1	-24	NE'E	4	m	44	85	4	5	-	-	10	10	800
	Manchester	1014.3	-22	ESE	4	c/d	45	85	4	6	-	-	10	10	800
9	Harrogate	1015.4	-14	E	3	d§	43	95	3	5	2	-	9+	10	<150
10	Spurn Head	1014.6	-4	ESE	5	ir.	46	95	6	6	2	-	9	10	1500
	Catterick	1015.9	-30	NE	2	id.	44	95	6	6	-	-	10	10	800
	Tynemouth	1017.8	-20	E	6	o/r	45	95	6	6	-	-	10	10	1500
11	Inchkeith	1022.1	-24	E	3	pR	44	85	8	8	2	-	7.8	10	2500
	Leuchars	1021.6	-26	ENE	4	ir	44	85	6	6	2	-	7.8	10	2500
12	Renfrew (Abbotsl)	1020.1	-26	ENE	4	pr	43	85	7	8	-	-	9+	9+	4000
	Eskdalemuir	1018.7	-30	NE	5	r.r.	41	85	7	5	1	-	9	10	800
13A	Tiree	1020.7	-26	E	4	b	45	65	9	7	4	-	Tr	Tr	4000
13B	Stornoway	1024.2	-20	SE'E	5	bc	43	75	8	4	4	-	1	2.3	4000
15	Dalwhinnie	·	-18	NE	4	c	37	85	8	4	2	-	7.8	10	800
	Aberdeen	1024.0	-24	E	6	pr	42	85	7	9	7	-	7.8	7.8	1500
	Wick	1027.2	-6	ESE	6	c/pr.	44	85	8	8	1	2	7.8	9	1500
16	Lerwick	1030.8	-12	S'E	3	c	42	65	8	5	7	-	4.6	7.8	1500
17	Blacksod Point	1015.1	-12	E	4	c	42	95	8	8	-	-	10	10	800
18	Malin Head	1018.4	-20	E'N	5	c	46	95	7	8	-	-	9	9	1500
	Aldergrove	1017.4	-18	ENE	5	bc	46	75	8	8	-	-	2.3	2.3	2500
	Donaghadee	1017.1	-20	NE	6	q	47	75	8	8	3	-	2.3	4.6	2500
19	Birr Castle	1014.2	-16	SE	1	c/r	38	95	7	6	-	-	9+	9+	2500
20	Valentia Obsy.	1012.1	-18	N'W	1	c	42	85	8	5	-	-	7.8	7.8	7200
	Roches Point	1011.9	-20	NE	3	c	43	95	8	3	-	-	7.8	7.8	2500

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

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)	1012.7	+2	ENE	2	o	45	85	5	5	-	-	10	10	1500	1	*
Croydon	1012.7	-2	ENE	2	id.	43	95	4	4	5	-	10	10	~~10~~ 450	1	*
S. Farnborough	1012.1	+2	ENE	1	id.	43	95	5	5	-	-	10	10	800	1	*
Boscombe Down	1011.7	+6	ENE	1	§	43	95	2	·	·	·	10	10	<150	1	*
Calshot, S'thmtn	1011.0	+6	NE'E	4	3o	46	85	6	5	-	-	10	10	1500	0	2
Dungeness	*	*	E'S	3	§	*	*	3	5	-	*	10	10	800	*	2
Lympne	1013.1	+2	E'S	4	3o	47	95	5	5	-	-	7.8	7.8	1500	1	*
Shoeburyness	1012.8	-2	E	2	c	47	95	6	5	-	-	9+	9+	1500	1	*
Felixstowe	1013.9	+2	ENE	3	c	49	95	6	5	-	-	10	10	800	1	2
Gorleston	1014.4	+6	E'S	3	o	49	95	6	5	-	-	10	10	1500	0	2
Cranwell	1014.0	0	ESE	1	§	44	95	2	5	-	-	10	10	<150	1	*
Birmingham	1012.7	0	ESE	2	d.d.	43	95	4	6	-	-	10	10	800	1	*
Upper Heyford	1012.8	0	E	3	3o	43	95	5	5	-	-	10	10	800	1	*
Ross-on-Wye	1012.3	-4	E'N	1	m	43	95	4	5	-	-	10	10	1500	1	*
Portland Bill	1009.5	+4	ENE	5	o	48	95	6	5	-	-	10	10	1500	0	4
Plymouth	1009.5	+6	NE	4	3o	47	85	6	5	-	-	9	9	1500	1	1
The Lizard	1007.8	+10	E	5	c/pr.	50	85	7	8	-	-	10	10	2500	1	3
Scilly (St. Mary's)	1007.6	+6	E'N	4	c/d.	49	85	6	5	-	-	9+	9+	2500	1	3
Guernsey	1008.8	+6	SE	3	o	47	95	6	5	-	-	10	10	1500	0	3
Pembroke	1009.9	-4	E	2	3o	45	85	6	5	-	-	9+	9+	2500	0	1
Holyhead	1012.9	-2	E	4	c	45	85	6	5	-	-	10	10	2500	1	3
Chester (Sealand)	1013.2	0	E'S	2	o/d.	45	85	5	5	-	-	10	10	1500	1	*
L'pool (Bidston)	1013.2	0	ENE	3	m	44	95	4	5	-	-	10	10	800	0	*
Manchester	1013.0	0	ENE	3	§	45	95	3	6	-	-	10	10	800	1	*
Harrogate	1014.4	0	SE	2	o/d	44	95	4	5	-	-	10	10	<150	1	*
Spurn Head	1014.1	0	SE	4	3o	48	95	5	5	2	-	2.3	4.6	800	1	3
Catterick	1014.9	-2	E'N	1	o/r.	45	95	6	6	-	-	10	10	800	1	*
Tynemouth	1015.5	-4	E	6	o/r	47	95	7	6	-	-	10	10	1500	1	4
Inchkeith	1018.3	-6	E	5	r.r.	44	95	8	6	-	-	10	10	2500	1	4
Leuchars	1019.4	-8	E	4	r.r.	44	85	7	6	2	-	7.8	10	1500	1	*
Renfrew (Abbotsl)	1017.0	-16	E'N	4	r.r.	43	85	6	5	-	-	10	10	1500	1	*
Eskdalemuir	1016.3	-12	NE	4	r.r.	41	95	6	6	2	-	9+	10	800	1	*
Tiree	1017.6	-16	E'N	5	c	44	75	9	5	5	8	2.3	9+	2500	0	3
Stornoway	1021.7	-6	ESE	4	bc	44	75	8	8	6	-	2.3	4.6	2500	1	2
Dalwhinnie	·	-6	NE	1	c	37	85	8	4	2	-	4.6	7.8	1500	0	*
Aberdeen	1022.1	-12	E'S	6	ir	43	75	7	6	-	-	10	10	1500	1	4
Wick	1024.4	-16	ESE	7	c/pr	43	85	8	9	6	-	7.8	7.8	1500	1	4
Lerwick	1029.2	-2	ESE	4	c	40	55	8	5	1	-	9	9+	1500	0	*
Blacksod Point	1012.8	-12	E	3	iR	42	95	7	6	-	-	10	10	450	1	3
Malin Head	1014.9	-14	E	5	pr	47	95	7	9	-	-	10	10	1500	1	1
Aldergrove	1014.1	-14	ENE	3	r.r.	45	85	7	5	-	-	10	10	1500	1	*
Donaghadee	1013.4	-8	E	6	q	47	85	7	9	-	-	7.8	7.8	1500	0	4
Birr Castle	1011.8	-8	NNE	1	c	42	95	7	6	2	-	9	10	2500	1	*
Valentia Obsy.	1009.9	-10	E'N	4	pr	42	85	8	5	-	-	7.8	7.8	2500	1	3
Roches Point	1010.5	-4	NE	4	c	44	85	8	3	-	-	7.8	7.8	2500	0	4

PAST 24 HOURS.

Stations.	Weather. 7h.–13h. 18th (37)	13h.–18h. 18th (38)	18h. 18th to 1h. 19th (39)	1h.–7h. 19th (40)
London (Kew)	cd.o§§	o§om.	ocm.	cm.
Croydon	omd.§§	omm.d.	of Fe	fer.bcm.
S. Farnborough	od.d.m.o§e	o§d.m10	o§d.of	o§cr.c
Boscombe Down	ccm.	co§e	o§c	omcprcm.
Calshot, S'thmtn	ccm.	cor.m.	om.	ocm.p6
Dungeness	c	§		o
Lympne	omcm.	cm.d.d.om	bm.	r.c
Shoeburyness	cm	cm.	cm.	c
Felixstowe	cd.o3o	cd.cm.	cm.b	b.c
Gorleston	coi§c.q	com.	ob3.3.	bbc
Cranwell	co.d.o§	od.d.o§	cir.§	oir.tm
Birmingham	od.m§	od.d.o§	om	om§pr
Upper Heyford	oid.m	om	od.d.	id.m.
Ross-on-Wye	c	c3.om	omid.	omd.of
Portland Bill	co3o	o3o	oo3o	oc
Plymouth	c3o	c3.id.	c3.pr	cbc
The Lizard	cq	cq.pr.	cpro	orr3o
Scilly (St. Mary's)	bcc	cid.	cp.c	corr
Guernsey	co	o	oir.	oir.c
Pembroke	c3.c	c3o	c3.c	cmo3rro
Holyhead	c	cm.c	cbcm.	r§r.
Chester (Sealand)	i§cid.o	coid.m.o	d.om.	od.m.
L'pool (Bidston)	om	ogom	om	omem
Manchester	cid§m	cm§§	o§m	cmo
Harrogate	c§ird	§modd	m§id	FFid
Spurn Head	ir.	§dbc3	o§idm	m§dz
Catterick	cir.m.	oid.m.c	om.m	omr.r.o
Tynemouth	bcoirq	orrq	oir.	oir.
Inchkeith	cpRq	cprq	cpro	oid.
Leuchars	crrirq	cr.r.qm.	cr.r.irm.	cir.m.
Renfrew (Abbotsl)	cbccpr.	pcr.c.r.r.	cir.cm.	comoid.
Eskdalemuir	cirs.cr.	cr.r.	cr.r.cid.	cid.cr
Tiree	b	bbcc	cir.	c3o
Stornoway	bc	bc	bc	bccpr.
Dalwhinnie	bcc	c	·	ir
Aberdeen	cprhq	crrirq	oirm.	oirm.
Wick	cpr.	prspr	irh ir	cir
Lerwick	c	cy	cir.rr	or.r.
Blacksod Point	prc	iR	i.R	bc
Malin Head	cpr.	c	cpr	c
Aldergrove	cr.bc3	bcc r.r.	cr.	cr.m.
Donaghadee	cbcq	bccq	cqr.r.c	c
Birr Castle	rrc	irc	c.bc	bccc
Valentia Obsy.	bxbbcc	cbccpr.	pr.	pr.
Roches Point	bcp.c	cpc	cbcb	bccor.r.

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. ⁄ gale.

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

A "sol'dus" 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.

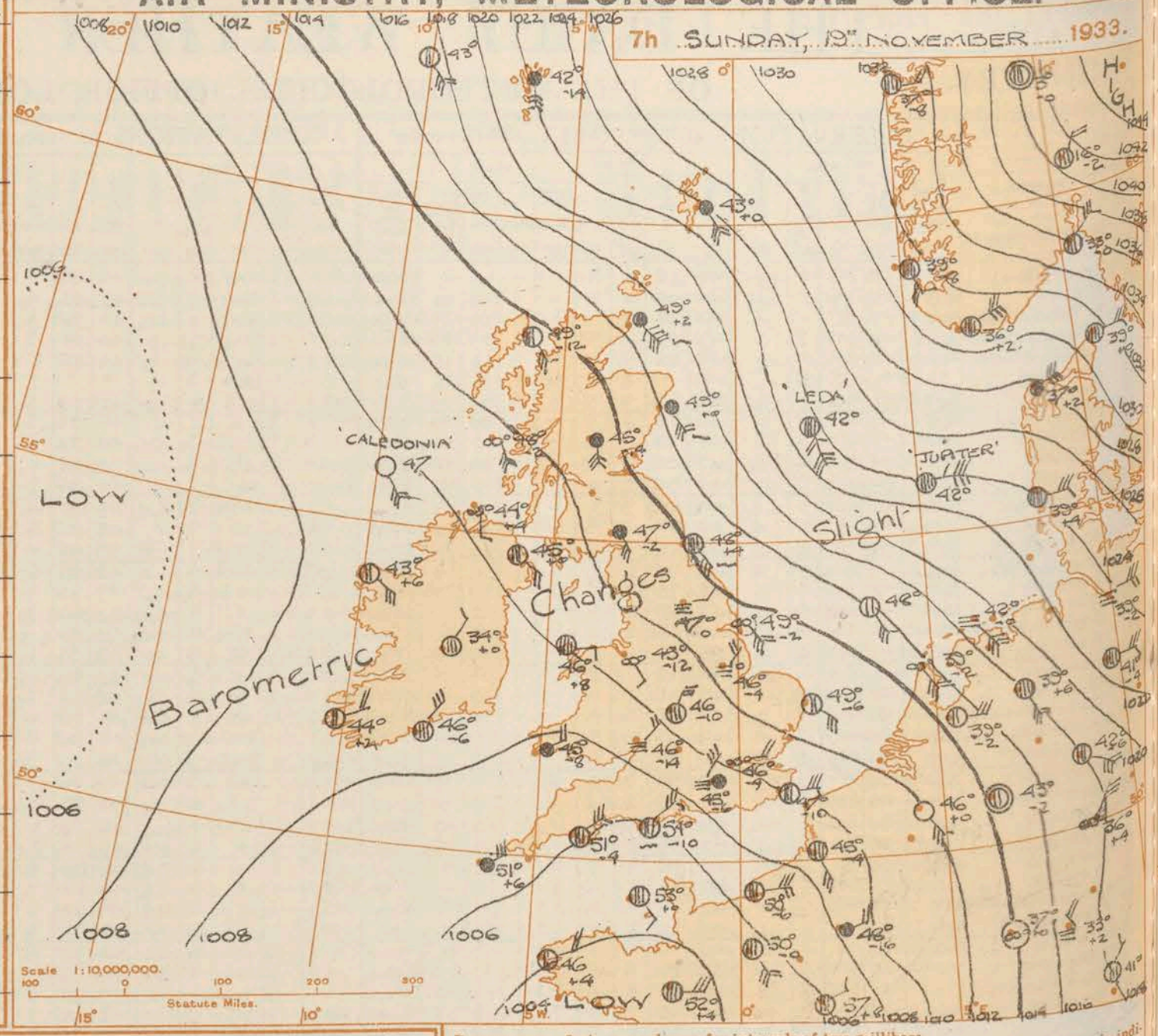
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 18th November 1933.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	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.	o§odo	o	40	44	0·5	0·3	0·0
	Bournemouth	c	om	41	46	–	–	0·8
	Ventnor ...	opou	oupou	42	48	0·3	Trace	0·0
	Southsea ...	o	o	42	46	–	–	0·0
	Bognor Regis	o	o	42	46	0·3	–	0·0
	Littlehampton	c	co	42	46	0·5	–	0·0
	Worthing ...	o	oir	42	46	0·5	Trace	0·0
	Brighton ...	c	c	42	46	0·4	–	0·0
	Eastbourne†	o	o	43	49	–	–	0·0
	Hastings† ...	o	oco	42	48	0·2	–	0·0
	Folkestone ...	om	om	43	49	–	–	0·0
	Dover... ...	o	ocom	44	50	Trace	–	0·0
	Deal	o	o	38	50	–	–	0·0
	Ramsgate ...	c	c	43	49	–	–	0·0
	Margate ...	c	c	44	50	–	–	0·0
2	Southend ...	o§	om	45	45	1	–	0·0
	Maldon ...	foc	co	41	46	–	–	0·0
	Clacton-on-Sea	o	ogm	43	47	0·5	–	0·0
	Dovercourt ...	o	c	43	48	Trace	–	0·0
	Lowestoft ...	oid	idom	42	49	0·4	0·1	0·0
	Skegness ...	o	o	43	47	0·4	Trace	0·0
	Mablethorpe	omr	omr	44	47	1	0·5	0·0
	Cleethorpes ...	oir	oir	43	47	2	1	0·0
3	Leamington S.	o	od	41	49	–	0·3	0·0
4	Cheltenham†	omir	o	41	44	Trace	Trace	0·0
5	Bath	c	c	43	45	–	–	0·0
	Weymouth ...	c	co	43	47	–	–	0·1
	Jersey ...	c	c3	43	47	–	–	0·1
	Torquay ...	c	o	43	49	–	–	0·0
	Penzance ...	bc	bccrcd	40	48	–	0·5	1·5
	St. Ives ...	c	o	42	48	–	–	0·8
	Bude							
	Ilfracombe ...	cbc	bc	45	47	–	–	1·5
6	Aberystwyth	c	c	40	46	–	–	0·0
7	Llandudno ...	o	od.m	42	46	3	Trace	0·0
	Colwyn Bay...	o	o	40	45	1	0·3	0·0
	Rhyl	cgm	cm	40	45	1	–	0·0
8	Wallasey ...	bcco	o	37	46	0·3	–	0·0
	Southport‖ ...	o	o	37	46	–	–	0·0
	Blackpool ...	c	o	37	46	0·3	–	0·0
	Morecambe ...	cbc	bccdpc	37	46	Trace	Trace	1·1
9	Ilkley... ...	cd	d	35	44	4	1	0·0
10	Berwick-on-T.	cor	RRo	38	45	2	3	0·0
11	Dunbar ...	rr	crr	36	46	4	3	0·0
12	Troon... ...	xbc	bco	32	44	–	–	1·9
	Douglas ...	cbc	cidc	39	47	2	Trace	0·6

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :— Clear sky. Sky less than 1/10 clouded. Sky 5/10 to 8/10 clouded. Sky 1/10 to 4/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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. Nov. 1933.
1. S.E. England	Wind easterly, light or moderate, freshening later; fair at first, occasional rain or drizzle later; milder.
2. E. England...	
3. E. Midlands	Wind easterly, light or moderate; mainly cloudy, local occasional rain or drizzle; milder.
4. W. Midlands	
5. S.W. England	
6. South Wales	
7. North Wales	
8. N.W. England	
9. N Midlands	Wind southeast, light or moderate, freshening later; mainly cloudy, local occasional rain or drizzle; local mist or fog; milder.
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	Wind southerly, strong, perhaps gale at times; mainly cloudy, occasional rain or drizzle; milder.
16. Orkneys and Shetlands.	
17. N.W. Ireland	Wind southeast, veering south, moderate, freshening later; mainly cloudy, occasional rain or drizzle; milder
18. N.E. Ireland	
19. S.E. Ireland	As 2 - 6.
20. S.W. Ireland	

GENERAL INFERENCE.

A large anticyclone covers Eastern Russia and the Baltic Sea, and a complex system of depressions extends from Greenland across Mid-Atlantic to North Africa. Weather will be mainly cloudy with local occasional rain or drizzle but brighter at first in the Southeast.

FURTHER OUTLOOK.

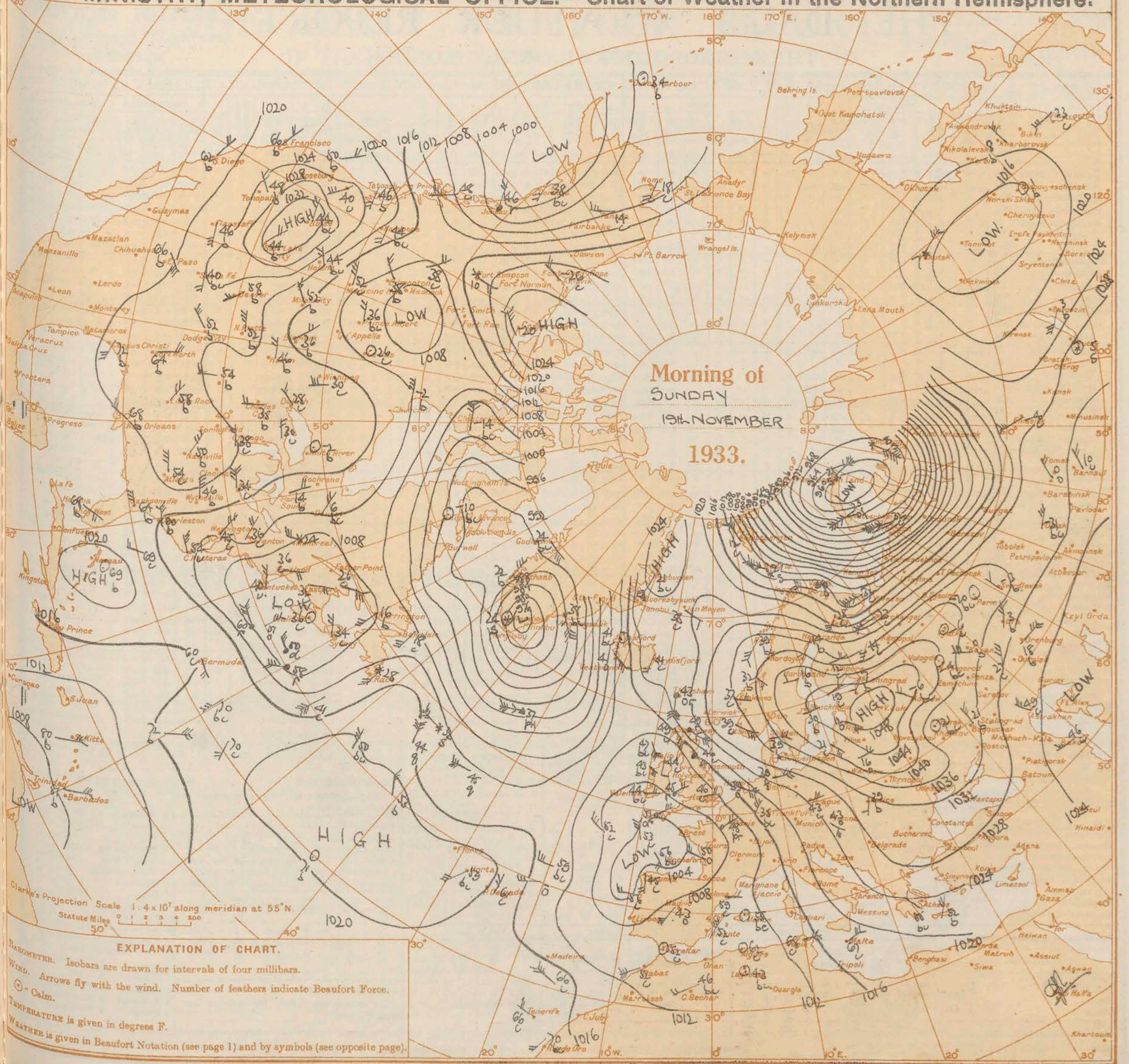
Unsettled.

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

Forecasts issued at 1200 G.M.T.

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

Sunday, 19th November 1933.

No. 26295

OBSERVATIONS at 1 hr. G.M.T. 19th November

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)	°F. Temp. (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)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1012.5	-2	ENE	2	F	43	95	1	5	-	-	10	10	<150
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1012.8	-6	E	3	bc	48	85	7	-	3	1	0	2-3	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1014.4	0	E'S	3	b	49	95	6	-	-	-	0	0	-
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1008.0	-10	ENE	4	o	49	95	6	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1007.0	-4	E	4	rr	51	95	7	5	-	-	10	10	1500
	Scilly (St. Mary's)	163	1006.3	-6	E'S	4	c	51	85	6	5	-	-	10	10	2500
	Guernsey ...	175	1007.1	-12	ENE	3	o	53	85	6	5	-	-	10	10	1500
6	Pembroke ...	142	1010.7	-6	ESE	2	c	44	85	6	5	-	-	9	9	2500
7	Holyhead ...	26	1012.2	-6	ESE	2	bc	43	85	6	5	-	-	2-3	2-3	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1013.7	-2	ESE	5	mo	48	95	5	5	-	-	10	10	450
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	100	1015.2	-4	SE	4	iro	47	95	7	6	-	-	10	10	1500
11	Inchkeith ...	190	1014.9	-10	ESE	1	o	46	95	7	5	-	-	10	10	1500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts I)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1017.1	-14	ESE	5	bc	45	85	7	8	6	-	4-6	4-6	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1019.5	-18	ESE	8	ir	47	95	8	9	2	-	7-8	10	1500
16	Lerwick ...	54	1025.9	-20	ESE	5	rr	41	95	7	6	-	-	10	10	1500
17	Blacksod Point	18	1009.7	-10	ESE	3	bc	43	95	7	5	-	-	4-6	4-6	800
18	Malin Head ...	52	1010.7	-12	E'S	1	c/.pr	46	95	7	8	-	-	9+	9+	800
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1008.7	-10	SE	2	c	43	95	8	3	-	-	7-8	7-8	4000
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 19th November — 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)	°F. Temp. (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)	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 18th Hrs. (36)
London (Kew)	1010.2	-10	E'N	4	c	49	95	5	5	2	-	7-8	10	2500	1	*	45	45	44	0.1	-	0.0
Croydon	1010.7	-4	E	2	ʒo	46	95	6	5	-	-	9	9	2500	1	*	44	43	41	0.3	Tr	0.0
S. Farnborough	1009.7	-6	ENE	3	rf	45	95	3	5	1	-	9	9+	2500	1	*	44	43	42	0.2	0.1	0.0
Boscombe Down	1008.4	-12	NE'E	4	c	47	95	6	5	2	-	9	10	1500	1	*	44	42	42	-	0.3	0.0
Calshot	1008.1	-8	ENE	4	c	50	85	7	5	3	-	2-3	9+	7200	1	3	46	48	43	Tr	0.1	0.0
Dungeness	*	*	E'N	3	c	*	*	6	8	-	*	7-8	7-8	1500	*	2	51	48	*	-	0.6	*
Lympne	1010.8	-10	E	4	c	47	85	6	5	7	-	4-6	9+	4000	1	*	47	46	42	Tr	Tr	0.0
Shoeburyness	1011.5	-6	E	3	c	48	95	7	5	-	-	9	9	2500	1	*	48	45	43	-	-	0.0
Felixstowe	1012.7	-2	ENE	3	c	50	85	7	5	4	8	4-6	9	1500	1	2	49	49	45	Tr	-	0.0
Gorleston	1013.8	-6	ESE	3	bc	49	95	6	-	4	-	0	4-6	-	0	2	49	48	45	0.6	-	0.0
Cranwell	1013.2	-4	ENE	2	m	46	95	4	5	-	-	10	10	2500	1	*	46	43	40	0.2	0.1	0.0
Birmingham	1010.9	-10	NE	3	of	46	95	3	5	-	-	10	10	450	1	*	43	42	39	0.2	0.4	0.0
Upper Heyford	1010.5	-12	ENE	3	ʒo	45	95	5	5	7	-	9	10	4000	1	*	43	42	41	Tr	Tr	*
Ross-on-Wye	1009.6	-14	ENE	2	of	46	95	3	5	-	-	10	10	800	1	*	43	42	41	-	0.4	0.0
Portland Bill	1005.9	-10	ENE	4	c	54	85	7	5	-	-	10	10	1500	0	4	49	47	*	-	-	*
Plymouth	1005.5	-4	NE	4	c	51	95	7	5	-	2	4-6	7-8	1500	1	1	47	46	44	Tr	0.3	2.5
The Lizard	1005.8	-2	NNE	3	o	49	95	6	5	-	-	10	10	1500	1	3	50	48	*	0.2	3	*
Scilly (St. Mary's)	1006.3	+6	NE'E	3	rr	51	95	6	6	-	-	10	10	1500	1	2	49	48	*	Tr	10	0.2
Guernsey	1005.4	0	SE	1	c	53	85	7	8	-	-	7-8	7-8	1500	1	3	47	47	44	-	0.4	0.0
Pembroke	1007.7	-8	ENE	2	rr	45	95	6	5	-	-	10	10	800	1	1	46	44	*	-	7	0.9
Holyhead	1011.4	-8	E	1	c/r	46	95	6	5	3	-	4-6	10	2500	1	2	47	42	37	-	3	0.0
Chester (Sealand)	1011.7	-12	SSE	1	ʒo	45	95	5	5	-	-	10	10	1500	1	*	45	43	40	0.1	Tr	0.0
L'pool (Bidston)	1011.5	-6	-	0	m	46	95	4	5	-	-	10	10	800	1	*	45	43	42	-	Tr	0.0
Manchester	1011.3	-16	E	4	c	48	95	5	6	-	-	10	10	4000	1	*	46	45	43	Tr	-	*
Harrogate	1014.0	0	E	1	F	47	95	1	5	-	-	10	10	<150	1	*	44	44	43	1	1	0.0
Spurn Head	1012.9	-2	ESE	5	ʒo	49	95	5	5	2	-	7-8	9+	800	1	4	48	46	*	1	0.4	0.0
Catterick	1014.6	0	SE'E	1	m	47	95	4	5	-	-	10	10	800	1	*	45	44	43	0.5	0.6	0.0
Tynemouth	1015.2	+4	SE	3	o/r	48	95	6	6	-	-	10	10	1500	1	3	47	47	41	6	0.6	*
Inchkeith	1014.6	-4	SE	2	o	48	95	7	5	-	-	10	10	1500	1	2	44	43	42	2	0.4	0.1
Leuchars	1015.9	-2	ESE	4	c/r	49	95	6	6	2	-	7-8	10	800	1	*	45	43	42	4	2	0.0
Renfrew (Abbotts I)	1013.2	-4	NE'E	2	o/d	45	95	5	5	-	-	10	10	1500	1	*	43	43	41	0.5	0.2	1.1
Eskdalemuir	1013.7	-2	SE	3	ir	47	95	6	6	1	-	9	10	800	1	*	41	40	40	2	2	~~0.0~~ 0.4
Tiree	1011.7	-2	SE'S	5	ʒo	48	85	6	5	2	-	7-8	10	2500	0	3	45	44	41	-	Tr	5.9
Stornoway	1013.5	-12	SE	4	c	49	85	8	8	6	-	4-6	9	1500	1	1	45	43	*	-	Tr	4.5
Dalwhinnie	1014.1	-12	S	5	ir	45	95	6	3	4	-	4-6	10	800	1	*	37	~~38~~ 37	34	-	5	0.1
Aberdeen	1017.0	0	SE'E	5	ṙṙ	49	95	6	6	-	-	10	10	1500	1	4	44	43	41	2	4	0.2
Wick	1017.1	+2	ESE	8	ir	49	95	8	9	2	-	7-8	10	1500	1	4	45	41	*	1	1	*
Lerwick	1024.1	0	SE	5	ṙṙ	43	95	6	6	-	-	10	10	1500	1	*	43	38	*	-	4	1.8
Blacksod Point	1009.8	+6	ESE	3	bc	43	95	8	-	4	-	0	4-6	-	1	3	43	41	*	7	0.5	*
Malin Head	1010.6	+4	S	1	ʒo	44	95	6	8	-	-	9+	9+	800	1	0	47	42	*	0.2	0.6	5.1
Aldergrove	1011.7	0	ESE	2	c	45	85	6	5	-	-	10	10	1500	1	*	46	42	40	Tr	0.3	3.9
Donaghadee	1011.6	0	SW	2	c	48	65	7	8	-	-	7-8	7-8	1500	0	1	48	46	*	-	4	*
Birr Castle	1009.8	0	NNE	1	c	34	95	~~8~~ 7	5	-	-	9	9	2500	1	*	42	34	27	6	-	0.0
Valentia Obsy.†	1008.4	+2	E'N	2	bc	44	95	8	~~6~~ 5	-	-	4-6	4-6	2500	1	*	44	42	39	Tr	0.3	3.0
Roches Point	1008.5	-6	NE	3	ṙṙ	46	95	7	6	-	-	10	10	1500	1	3	45	40	*	1	2	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations except Greenwich & Hampstead 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	cdo off	ofomo	ocmo	45	45	44	0.1	-	0.0	*	*	4
Croydon	217	omdo ff	ommo do	ofFero bc	44	43	41	0.3	Tr	0.0	*	*	5
Greenwich (Royal Observatory)	149	oidjfrom	om	omjmcw	46	45	40	Tr	Tr	0.0	89	91	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park)	27	*	*	*	50	45	43	—		0.0	83	88	*
‡Regents Pk. (Botanic Gardens)	168	*	*	*	49	41	39	—		0.0	84	89	*
Camden Square	110	o	oc	*	46	46	41	—	—	*	*	90	*
Kensington	80	como	com	*	45	45	41	Tr.	—	0.0	At 18h.	91	*
Hampstead Observatory	450	od	ofd	om	46	44	39	Tr	Tr	0.0	92	91	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 19th.

South Kensington.			
Max.	Time.	Min.	Time.
1.0	10h–12h 18th	<0.3	02h–07h 19th
Kew Observatory.			
Max.	Time.	Min.	Time.
1.0	12h 18th	0.2	6h 19th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 18th November Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 19th November 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	1011.7	E	2	b	50	1010.1	ENE	2	pr	48	57	46	-	1
Brussels	1015.0	SSE	4	b	54	1013.0	SE	4	b	46	57	45	-	-
Berlin	1025.9	ESE	3	m	39	1027.0	ESE	4	df	39	41	39	Tr.	Tr
Zürich	1017.4	WSW	1	ʒo	46	1016.6	NNE	1	c	41	57	39	-	-
Rome	1019.5	S	3	bc	55						72		-	

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 h. observations are from Valentia W/T station ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 20th NOVEMBER 1933.

No. 26296

Division	Stations. (For heights see p. 4.)	OBSERVATIONS at 13h. G.M.T. 19th November														OBSERVATIONS at 18h. G.M.T. 19th November															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. 19th	Weather. 13h.–18h. 19th	Weather. 18h. 19th to 1h. 20th	Weather. 1h.–7h. 20th
		(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) ...	1009.4	-8	E'N	2	cf	54	7S	3	5	3	-	4.6	9+	2500	1010.1	+6	E'N	2	bf-	51	9S	4	-	-	-	0	0	-	1	*	cmf	cfrbf	fbemb	boF
	Croydon ...	1010.0	-8	ESE	3	3o	55	7S	6	-	7	6	0	9	-	1010.3	+4	E'S	2	3o	50	9S	5	5	-	-	1	1	2500	1	*	cmobc3o	cromo	bbcw	bbcW
	S. Farnborough	1008.5	-10	SE	3	c	56	7S	6	-	9	2	0	9+	-	1009.2	+6	ESE	2	c	54	8S	6	5	-	-	9+	9+	4000	1	*	fro bc	cio	cbmo	bmoFe
	Boscombe Down	1007.6	-6	ESE	3	c	53	8S	6	5	-	2	7.8	9+	5700	1008.1	+6	SE	4	ro ro	52	9S	6	6	-	-	10	10	800	1	*	cmo	corm	ciRb	bmoFe
	Calshot, S'thmtn	1007.8	-2	E'N	4	3o	54	8S	6	-	7	8	0	9	-	1008.2	+6	E'S	3	c/r	52	9S	6	9	7	-	7.8	10	2500	1	2	cbccmo	cirRmo	cpremo	embcmo
	Dungeness ...	*	*	SE	5	c	*	*	6	4	-	*	9	9	1500	*	*	SE	4	bc	*	*	7	5	-	*	4.6	4.6	1500	*	3	c	c	*	bc
	Lympne ...	1011.1	-2	SE'E	3	ir	54	7S	7	5	7	-	2.3	9+	4000	1011.8	+8	SE'S	4	b	55	7S	7	-	-	-	0	0	-	1	*	ccro	cropcbc	bov	bybcW
2	Shoeburyness	1010.7	-6	E	4	c	51	8S	6	5	2	-	7.8	9	4000	1011.4	+4	ENE	4	bc	50	9S	6	-	2	-	0	2.3	-	1	*	cmo	cbcmo	bmembm	bcf
	Felixstowe ...	1012.1	-6	ESE	4	c	52	8S	7	5	4	8	2.3	7.8	4000	1012.4	+2	E'S	4	bc	51	8S	6	5	-	-	2.3	2.3	2500	1	2	cbc	cpobc3o	bc3ob	bbcf
	Gorleston ...	1013.4	-2	SE'E	4	c	50	9S	6	-	3	-	0	9	-	1013.2	+4	ESE	2	3o	50	9S	6	5	-	-	9+	9+	2500	0	4	bccq	c3o3o	cb3o	ccjo
	Cranwell ...	1011.4	-6	ESE	3	3o	52	8S	6	7	7	-	4.6	9+	2500	1011.7	+6	ESE	2	3o	49	9S	6	5	-	-	9+	9+	4000	1	*	cmmo	cpromo	cjprb	bofe
3	Birmingham ...	1009.2	-10	E	2	bc	51	8S	5	1	8	9	1	4.6	1500	1009.1	+2	E	3	ro ro	50	9S	4	6	-	-	10	10	800	1	*	ofbc	bccm	oir	obcc
	Upper Heyford	1009.1	-14	E	3	3o	54	7S	5	-	-	2	0	9+	-	1009.5	+4	E	3	ir	50	9S	4	5	-	-	10	10	450	1	*	cbcmo	cmro		
4	Ross-on-Wye ...	1008.3	-8	ENE	1	m	51	8S	4	1	9	1	Tr	7.8	4000	1008.2	0	-	0	rf	49	9S	2	5	-	-	10	10	2500	1	*	poofcm	cmof	troRmo	cbc
5	Portland Bill ...	1006.0	+4	ENE	3	c	55	8S	7	5	-	-	9	9	2500	1007.0	+10	SE	3	ir	55	9S	7	5	-	-	10	10	1500	1	3	c	iroir	bcb	bbc
	Plymouth ...	1005.9	-4	NE	3	3o	53	8S	6	5	7	-	7.8	9+	1500	1006.6	+10	-	0	ro ro	53	9S	6	5	2	-	4.6	10	1500	1	1	bccq	c3oro	oRRcmo	cmo
	The Lizard ...	1005.3	-6	NNE	2	c	54	9S	7	4	7	-	7.8	7.8	2500	1006.5	+6	NNE	1	bc	51	9S	7	4	-	-	4.6	4.6	2500	1	2	ome	cbc	bepoc	cproc
	Scilly (St. Mary's)	1006.2	-6	NE'E	3	c	52	9S	6	5	-	-	10	10	2500	1007.4	+10	NNW	3	c	51	9S	6	5	-	-	9+	9+	2500	1	2	ridoc	c	cbc	bcw
	Guernsey ...	1005.6	0	-	0	c	55	8S	8	4	2	-	7.8	10	2500	1007.7	+20	S	3	ir	54	9S	7	5	-	-	7.8	7.8	1500	1	3	orbcc	oir	irbc	bcoir
6	Pembroke ...	1006.6	-12	E	1	3o	49	8S	6	5	4	1	4.6	7.8	1500	1006.7	+2	ENE	1	o/r	49	9S	6	5	-	-	10	10	800	1	1	cmorr3oc	c3orro	cmc	comirc
7	Holyhead ...	1010.0	-10	NEE	3	ir	50	9S	6	6	3	-	7.8	10	2500	1009.0	0	SSW	1	c/r	48	9S	5	6	-	-	10	10	2500	1	1	cirm	cromo	oiro	oiromo
	Chester (Sealand)	1009.5	-14	SE	1	c/r	48	9S	4	5	-	-	9	9	1500	1009.2	+2	SE	2	m	47	9S	4	5	-	-	9	9	800	1	*	oRrofcr	come	rrm	cir
8	L'pool (Bidston)	1009.0	-12	ENE	2	rf	50	9S	3	5	7	-	9	10	450	1009.0	0	E	3	m	50	8S	4	5	-	-	10	10	800	0	*	irofcfiro	fecom	rroirm	momo
	Manchester	1009.4	-12	E	3	of	53	7S	3	5	-	-	10	10	1500	1009.4	+2	ENE	3	o/f	52	8S	4	5	-	-	10	10	800	1	*	cirff	cffom	cmrc	cbcmo
9	Harrogate ...	1011.7	-6	ESE	3	c/r	48	9S	5	6	2	-	9	10	2500	1010.9	0	SE	1	rr	47	9S	5	5	-	-	10	10	2500	1	*	Fcir	coir	comir	off
10	Spurn Head ...	1011.3	-4	SE	5	c	48	9S	5	5	7	8	7.8	9	800	1011.6	+2	SE	5	c/pr	50	9S	6	5	2	-	4.6	10	1500	1	4	cy	c3pr	cprbc	bc3fW
	Catterick ...	1012.1	-22	ESE	2	c	51	8S	6	6	3	-	9+	9+	1500	1012.0	0	-	0	ir	47	9S	6	6	-	-	10	10	800	1	*	omrcmo	crmorm	oromo	omo
	Tynemouth ...	1013.8	-12	SE	4	o	50	8S	6	6	-	-	10	10	1500	1012.6	-4	SE	5	o	49	8S	7	6	-	-	10	10	1500	1	3	oiro	oq	oirbc	bco
11	Inchkeith ...	1014.0	-4	ESE	2	c	49	9S	6	8	7	-	7.8	10	1500	1012.5	-6	SE	2	o	48	9S	7	5	-	-	10	10	1500	1	2	oiroc	cmoir	orr	orrco
	Leuchars ...	1015.3	-10	ESE	4	o/r	49	9S	4	5	-	-	10	10	220	1014.0	-6	ESE	4	ido	49	8S	4	5	-	-	10	10	220	1	*	cdorrmo	orrodmo	odmrr	ccromo
12	Renfrew (Abbotts I)	1012.1	-10	E'N	2	rrf	49	9S	3	5	-	-	10	10	800	1011.1	-8	NE'E	3	3o	48	9S	5	5	-	-	10	10	1500	1	*	orrgff	orforc	emcro	orrmo
	Eskdalemuir ...	1012.3	-12	NE	3	ir	47	9S	6	5	1	-	7.8	10	1500	1011.3	-4	ENE	3	c	46	9S	6	5	1	-	9+	10	450	1	*	cir	cir	irocrr	rroirr
13A	Tiree ...	1011.8	0	SE'S	3	3o	48	8S	6	5	2	-	7.8	10	1500	1011.1	0	-	0	ir	46	9S	6	5	2	-	7.8	10	1500	1	2	c3o	c3oir	cirod	crdrod
13B	Stornoway ...	1012.6	-8	SSE	2	ro ro	50	9S	7	8	2	-	9	10	1500	1012.6	+2	-	0	ro ro	45	9S	6	8	2	-	7.8	9+	800	1	0	cro ro	cro ro	cromo	croc
15	Dalwhinnie ...	-	-20	SSE	5	RR	45	9S	6	4	4	-	4.6	10	800	1012.9	+8	S	1	ir	45	9S	5	3	4	-	7.8	10	800	1	*	rr	rr	*	ir
	Aberdeen ...	1016.3	-6	SE	5	ido	50	8S	6	6	-	-	10	10	1500	1015.9	-4	SE	5	ido	49	9S	6	6	-	-	10	10	1500	1	4	orrqidmo	oird	odrr	oromo
	Wick ...	1016.3	-8	ESE	8	ir	50	9S	7	6	2	-	7.8	10	1500	1015.7	-8	S	8	ir	50	9S	7	9	2	-	7.8	10	1500	1	4	cir	irir	cir	irorc
16	Lerwick ...	1022.7	-8	SE	7	ro ro	45	8S	6	6	-	-	10	10	1500	1021.2	-4	SE	7	ir	45	9S	6	6	-	-	10	10	800	1	*	ororomo	oroirom	oirmo	oirmo
17	Blacksod Point	1009.7	0	ESE	1	bc	46	8S	8	1	-	-	2.3	2.3	4000	1009.3	-2	ESE	3	bc	46	9S	7	-	4	-	0	4.6	-	1	2	bc	bc	bc	bc
18	Malin Head ...	1010.8	-2	-	0	3o	45	9S	7	5	7	-	4.6	9+	1500	1010.2	+6	-	0	3o	47	9S	7	5	7	-	4.6	9+	1500	0	0	3	3	cddm	3
	Aldergrove ...	1011.0	-6	NE	1	rf	46	9S	3	6	2	-	7.8	10	1500	1010.1	0	NNW	1	df	45	9S	3	5	-	-	10	10	800	1	*	crrr3	orodof	odof	odofof
	Donaghadee ...	1010.3	-6	SE	2	ro ro	49	8S	7	6	-	-	10	10	800	1008.9	-4	SE	2	ido	51	9S	7	6	-	-	10	10	800	1	1	coro ro	ro ro ido	oidmo	oidmo
19	Birr Castle ...	1009.6	-6	NNE	1	b	47	9S	7	-	-	9	0	1	-	1009.1	+4	NNE	1	bc	38	9S	7	-	4	-	0	2.3	-	1	*	cb	bbc	bcb	bc
20	Valentia Obsy.	1008.3	-6	E	1	c	48	8S	8	5	-	9	9	9	2500	1008.2	+6	SE'E	3	bc	46	9S	8	2	-	2	1	4.6	1500	1	2	bccbcc	cbc	bccwc	ccrr
	Roches Point ...	1008.8	+6	NE	3	c	48	9S	7	3	-	-	9	9	1500	1008.7	0	NE	3	bc	47	9S	8	3	-	-	4.6	4.6	2500	0	3	orc	cbc	bcb	bbcfebc

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. gale.

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.

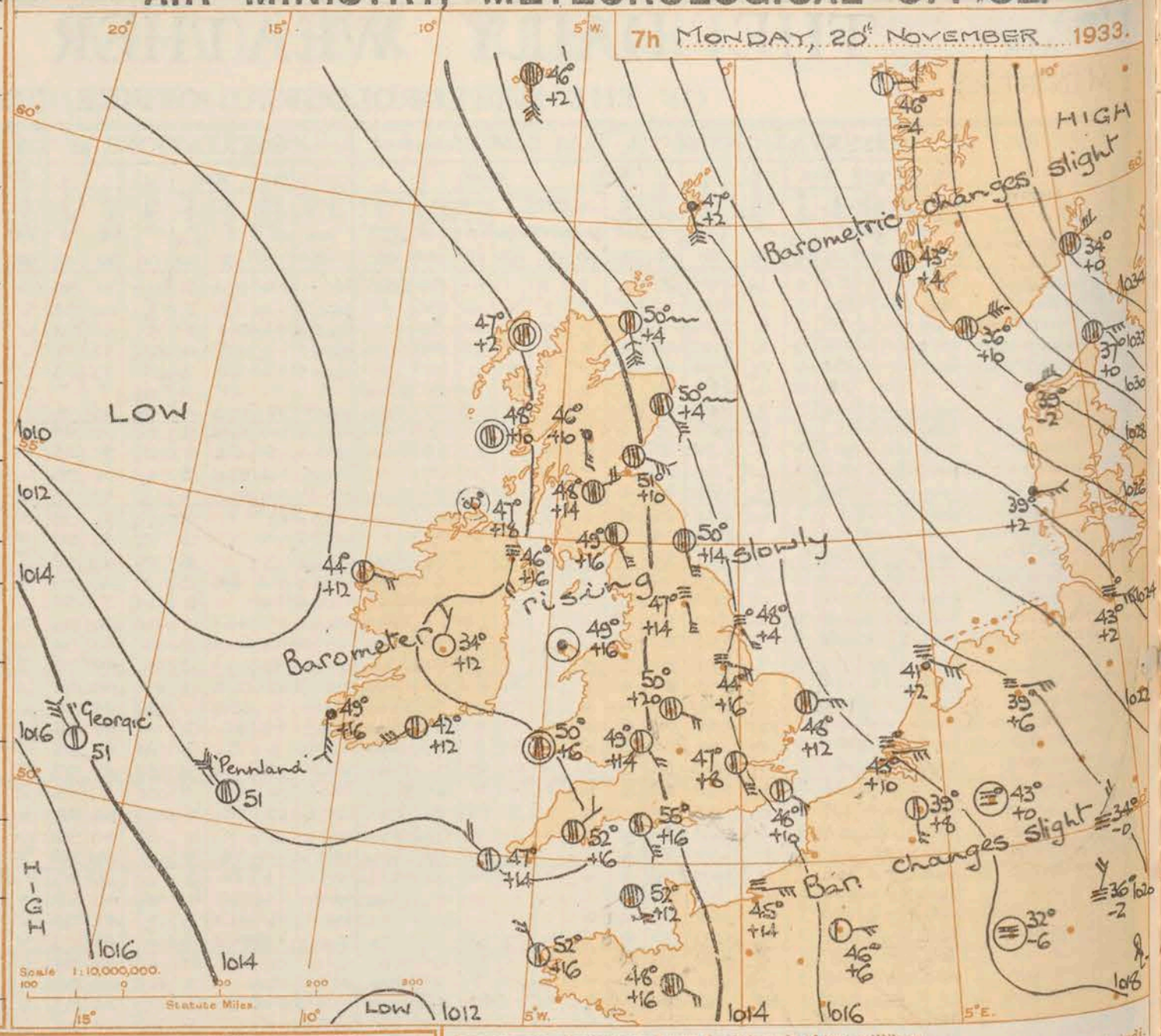
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for 19th November 1933.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	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.	bcobo	co	41	55	Trace	Trace	1·3
	Bournemouth	o	oco	43	54	0·3	-	0·5
	Ventnor ...	poco	ocor	42	57	Trace	1	0·8
	Southsea ...	bcc	crc	43	56	-	1	0·8
	Bognor Regis	bcor	bcrcc	43	55	Trace	1	0·5
	Littlehampton	bcc	crc	43	56	-	0·6	0·5
	Worthing ...	oco	cob	42	57	-	Trace	0·7
	Brighton ...	bc	bc(p)	43	57	-	0·3	1·5
	Eastbourne†	bbcco	or.ocb	45	55	-	Trace	0·6
	Hastings† ...	bcodo	ocbc	48	57	-	0·2	0·0
	Folkestone ...	cm.	r.cbc	43	57	-	Trace	0·0
	Dover... ...	wc	cr.bc	44	56	Trace	Trace	0·0
	Deal	od.	oc	45	54	-	Trace	0·0
	Ramsgate ...	o	opo	44	53	-	0·2	0·0
	Margate ...	c	cd	45	54	-	Trace	0·0
2	Southend ...	c	cr	43	53	Trace	0·3	0·3
	Maldon ...	mbcc	cp.c	44	50	-	Trace	0·7
	Clacton-on-Sea	c	c	46	51	-	-	0·1
	Dovercourt ...	rbcc	rbc	46	52	Trace	Trace	0·2
	Lowestoft ...	c	c	47	52	-	-	1·3
	Skegness ...	o	or	45	49	-	0·4	0·5
	Mablethorpe	co	or.	43	48	Trace	Trace	0·0
	Cleethorpes ...	b	cr.	44	50	0·6	Trace	0·5
3	Leamington S.	oc	cod	42	54	0·1	0·1	1·5
4	Cheltenham†	cmbcc	cm.	42	54	0·5	-	2·0
5	Bath	cbcc	c	43	55	1	-	0·8
	Weymouth ...	cbc	cir.c	44	56	1	Trace	1·1
	Jersey ...	cpc	cpc	44	56	0·1	1	0·0
	Torquay ...	pom.oco	or.3.	45	54	1	4	0·0
	Penzance ...	cpcbc	c	43	54	6	Trace	0·3
	St. Ives ...	o	o	44	52	4	-	0·0
	Bude	mbc	c	42	52	1	-	0·7
	Ilfracombe ...	c	cr	45	51	1	?	0·0
6	Aberystwyth	cgpr.	p.mrc	43	51	1	1	0·0
7	Llandudno ...	rmo	r.m.o	43	50	0·5	2	0·0
	Colwyn Bay...	fro	od	41	49	1	0·5	0·0
	Rhyl	cgmr	cgm	44	50	1	1	0·0
8	Wallasey ...	for.	of	44	52	1	0·3	0·0
	Southport‖ ...	oir.	omo	~~47~~ 44	~~?~~ 52	~~0·3~~ 0·6	-	0·0
	Blackpool ...	o	oco	45	52	0·6	-	0·0
	Morecambe ...	c	c	43	54	Trace	-	0·0
9	Ilkley... ...	o	o	41	49	1	-	0·0
10	Berwick-on-T.	opr.	o	40	49	2	Trace	0·0
11	Dunbar ...	cb.	o	42	50	6	0·3	0·0
12	Troon... ...	r.crf	rcrrf	38	50	2	7	0·0
	Douglas ...	om.mi	om.ir	44	50	5	5	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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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. 20th. Nov. 1933.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Light southeast wind, backing east or northeast; fair; local fog, becoming rather widespread; probably some rain tomorrow; mild, becoming less mild.
5. S.W. England 6. South Wales 7. North Wales	Light variable wind; bright intervals, local showers; local fog later; mild.
8. N.W. England 9. N Midlands 10. N.E England 11. S.E. Scotland	Light southeast wind; variable cloud, local fog, especially later; mild or rather mild.
12. S.W. Scotland & Isle of Man 13. A. W Scotld. B. N.W. Scotland	Light southeast to variable wind; mainly cloudy, local showers; local fog later; mild.
14. Mid-Scotland	Moderate to light southeast wind; cloudy, local rain, especially at first; mild.
15. N.E Scotland ▼	Fresh or strong southeast wind, moderating slightly; dull, slight rain at times; mild.
16. Orkneys and Shetlands ▼	
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 5 - 7.

GENERAL INFERENCE.

A large anticyclone is centred over Russia. A trough of low pressure over the southwest of the British Isles is filling up, but a depression over the Mediterranean is likely to move north-northwest. Weather will be rather unsettled with local fog.

FURTHER OUTLOOK.

Rather unsettled.

Time of issue of Gale Warnings.

▼ South Cone at 1420 on 19th in districts 15 and 16.

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

Monday, 20th November 1933.

No. 26296

OBSERVATIONS at 1 hr. G.M.T. 20th November

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	1013·5	+16	SE	3	bc	50	95	7	5	3	-	2-3	2-3	2500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1014·6	+10	SSE	2	b	51	95	9	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1015·3	+6	ESE	4	b	50	95	6	-	-	-	0	0	-
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1010·2	+4	S	4	b	54	95	8	-	-	-	0	0	-
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1009·1	+10	NNW	2	c	49	95	6	5	-	-	9+	9+	1500
	Scilly (St. Mary's)	163	1009·6	+4	NW	2	bc	49	95	6	4	-	-	2-3	2-3	2500
	Guernsey ...	175	1010·5	+6	SE	3	b	52	95	8	-	-	-	0	0	-
6	Pembroke ...	142	1008·8	+4	ENE	1	c	49	95	6	5	-	-	10	10	1500
7	Holyhead ...	26	1009·7	+2	SSE	1	o	48	95	5	5	-	-	10	10	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1012·9	+2	SE'S	5	bc	49	95	6	5	-	-	2-3	2-3	2500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	100	1012·8	0	SSE	3	bc	49	95	6	5	-	-	4-6	4-6	800
11	Inchkeith ...	190	1012·4	-2	SE	1	o	48	95	7	5	-	-	10	10	1500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts D)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1012·3	-4	-	0	c/r	47	95	6	8	6	-	7-8	9	1500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1015·0	-8	SE	8	ir	49	95	7	6	2	-	7-8	10	1500
16	Lerwick ...	54	1020·7	-4	SSE	7	o/r	46	95	6	6	-	-	10	10	800
17	Blacksod Point	18	1009·9	+4	ESE	2	b	45	95	7	1	-	-	1	1	~~2500~~ 4000
18	Malin Head ...	52	1009·9	-2	-	0	3o	46	95	6	8	-	-	10	10	800
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1008·6	+6	SE	2	bc	51	95	8	-	2	-	0	2-3	-
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 20th November

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)...	1016.1	+16	ENE	2	F	46	95	1	5	-	-	10	10	<150	1	*
Croydon ...	1015.7	+8	SE'S	3	bc	47	95	6	5	3	-	4-6	4-6	4000	1	*
S. Farnborough	1015.5	+18	SE'E	3	f	49	95	2	5	-	-	10	10	<150	1	*
Boscombe Down	1014.4	+16	E'S	2	F	46	95	1	5	-	-	10	10	<150	1	*
Calshot (S'thmtn)	1014.4	+16	NE'E	3	3o	49	95	6	5	-	2	1	4-6	4000	1	1
Dungeness ...	*	*	SE	2	bc	*	*	7	5	-	*	4-6	4-6	2500	*	1
Lympne ...	1016.3	+10	SE	2	bc	48	95	8	5	3	-	Tr	4-6	5700	1	*
Shoeburyness	1016.4	+12	-	0	bcf	42	95	2	5	7	-	4-6	4-6	7200	1	*
Felixstowe ...	1016.7	+16	-	0	bcf	45	95	3	-	4	1	0	2-3	-	1	1
Gorleston ...	1016.0	+12	ESE	3	c	48	95	6	4	-	-	7-8	7-8	2500	0	2
Cranwell ...	1016.2	+16	SE'S	2	F	44	95	1	5	-	-	10	10	<150	1	*
Birmingham ...	1015.1	+20	SE	2	c	50	95	7	5	-	-	9+	9+	1500	1	*
Upper Heyford	1015.8	+20	-	0	F	47	95	1	5	-	-	10	10	<150	1	*
Ross-on-Wye ...	1013.5	+14	SE	2	bc	49	95	6	5	-	1	1	2-3	4000	1	*
Portland Bill...	1012.5	+16	SSE	4	c	55	85	7	5	-	-	7-8	7-8	2500	1	3
Plymouth ...	1011.7	+16	ENE	1	c	52	95	6	5	-	-	9+	9+	1500	1	1
The Lizard ...	1011.9	+16	NNW	2	c	49	95	7	8	7	-	7-8	10	1500	1	2
Scilly (St. Mary's)	1012.6	+14	NW	2	bc	47	85	7	5	4	-	2-3	2-3	2500	1	1
Guernsey ...	1012.5	+12	SSE	2	o/r	52	95	8	5	-	-	10	10	1500	1	3
Pembroke ...	1011.2	+6	-	0	m	50	95	4	5	-	-	10	10	800	1	1
Holyhead ...	1012.3	+16	-	0	r/o	49	95	4	5	-	-	10	10	2500	1	0
Chester (Sealand)	1013.5	+16	SE'S	2	c	51	95	6	5	-	-	9+	9+	1500	1	*
L'pool (Bidston)	1013.4	+16	ESE	2	3o	50	95	5	5	-	-	10	10	1500	1	*
Manchester	1014.0	+18	SSE	2	3o	52	95	5	5	-	-	4-6	4-6	2500	1	*
Harrogate ...	1015.1	+14	S	1	f	47	95	2	5	-	-	10	10	<150	1	*
Spurn Head ...	1016.2	+4	SE	2	c/f	48	95	4	5	2	-	4-6	9	<150	1	2
Catterick ...	1015.6	+18	SE	2	o	48	95	5	5	-	-	10	10	450	1	*
Tynemouth ...	1014.1	+14	SSE	3	o	50	95	6	5	-	-	10	10	1500	1	3
Inchkeith ...	1013.7	+12	SSE	1	c	50	95	7	85	-	-	10	10	1500	1	1
Leuchars ...	1014.1	+10	ESE	4	c	51	85	5	5	-	-	9+	9+	2500	1	*
Renfrew (Abbotts D)	1012.2	+14	ENE	2	o/r	48	95	5	5	-	-	10	10	800	1	*
Eskdalemuir ...	1013.2	+16	SSE	3	c/r	49	95	6	5	1	-	9+	10	450	1	
Tiree	1011.6	+10	-	0	c	48	95	6	5	2	-	9+	10	1500	1	1
Stornoway ...	1012.0	+2	-	0	c	47	95	6	8	6	-	7-8	10	2500	1	0
Dalwhinnie ...	1013.1	+10	S	3	ir	46	95	7	4	4	-	4-6	10	1500	1	*
Aberdeen ...	1015.5	+4	SE'S	4	o	50	95	6	5	-	-	10	10	800	1	4
Wick	1015.5	+4	SSE	8	c	50	95	7	8	1	-	7-8	10	1500	1	4
Lerwick ...	1020.2	+2	SSE	7	ir	47	95	5	6	-	-	10	10	450	1	*
Blacksod Point	1011.3	+12	ESE	2	bc	44	95	7	-	4	-	0	2-3	-	1	2
Malin Head ...	1011.1	+18	-	0	3o	47	95	5	5	-	-	10	10	<150	1	0
Aldergrove ...	1011.3	+16	S	2	f	46	95	2	5	-	-	10	10	<150	1	*
Donaghadee ...	1011.3	+16	-	0	ido	50	95	6	5	-	-	10	10	800	1	0
Birr Castle ...	1012.2	+12	NNE	1	b	34	95	7	-	-	-	0	0	-	1	*
Valentia Obsy.†	1011.3	+16	S	4	rr	49	95	6	6	-	-	10	10	800	1	*
Roches Point...	1011.4	+12	SW	3	bc	42	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)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 19th Hrs. (36)
London (Kew)...	54	43	34	0·5	Tr	0.5
Croydon ...	57	47	43	0·5	Tr	1.5
S. Farnborough	57	49	41	0·2	Tr	1.6
Boscombe Down	55	44	41	0·2	4	1.4
Calshot (S'thmtn)	54	48	41	2	1	0.9
Dungeness ...	58	50	*	-	Tr	*
Lympne ...	56	48	43	Tr	Tr	0.0
Shoeburyness	51	42	40	-	Tr	0.3
Felixstowe ...	52	45	36	Tr	-	0.3
Gorleston ...	50	47	42	-	-	1.0
Cranwell ...	52	42	38	Tr	0.2	0.5
Birmingham ...	53	49	44	Tr	1	1.0
Upper Heyford	54	46	37	Tr	Tr	*
Ross-on-Wye ...	52	48	43	0·1	7	0.4
Portland Bill...	55	53	*	1	1	*
Plymouth ...	55	51	50	0·3	11	0.5
The Lizard ...	54	48	*	-	0.2	*
Scilly (St. Mary's)	52	46	*	0·3	Tr	0.0
Guernsey ...	55	52	47	2	1	0.2
Pembroke ...	51	48	*	8	0.6	0.6
Holyhead ...	50	48	45	4	0.4	0.0
Chester (Sealand)	50	47	43	1	3	0.0
L'pool (Bidston)	51	48	47	0·5	3	0.0
Manchester	54	50	43	Tr	1	*
Harrogate ...	48	47	45	0·3	0.4	0.0
Spurn Head ...	50	45	*	Tr	0.3	0.3
Catterick ...	51	46	44	1	0.4	0.0
Tynemouth ...	50	49	46	0·4	2	*
Inchkeith ...	49	47	45	1	4	0.0
Leuchars ...	49	48	47	3	4	0.0
Renfrew (Abbotts D)	49	47	46	9	8	0.0
Eskdalemuir ...	48	45	45	1	10	0.0
Tiree	48	47	45	0·1	1	0.0
Stornoway ...	51	43	*	6	1	0.0
Dalwhinnie ...	46	44	42	18	6	0.0
Aberdeen ...	50	48	47	6	7	*
Wick	50	48	*	1	5	0.0
Lerwick ...	45	44	*	1	0.3	*
Blacksod Point	47	41	*	0·5	-	0.8
Malin Head ...	48	44	*	-	2	0.0
Aldergrove ...	47	45	44	3	1	*
Donaghadee ...	52	48	*	8	1	4.8
Birr Castle ...	49	32	25	-	-	2.6
Valentia Obsy.†	51	44	40	-	2	*
Roches Point...	49	39	*	4	Tr	

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather 24 hrs. ended 9h. Morning.	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	cmf	cfrbf	fbcoF	54	43	34	0.5	Tr	0.5	*	*	0
Croydon	217	cmbc3o	crprm	bbcw	57	47	43	0.5	Tr	1.5	*	*	2
Greenwich (Royal Observatory) ...	149	cm	cpbf	bfmcF	54	44	35	Tr	Tr	1.0	87	98	2
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.5	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	54	44	37	—		0.7	94	98	*
Regents Pk. (Botanic Gardens) ...	168	*	*	*	55	44	37	—		0.1	86	100	*
Camden Square	110	c	c	*	52	44	35	Tr	Tr	*	*	99	*
Kensington	80	cbcm	c	*	53	42	34	0.1	—	0.6	At 18h. 84	98	*
Hampstead Observatory	450	of	ofd	bcm	53	44	34	Tr	Tr	0.8	*	95	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 20th

South Kensington. Max.	Time.	Min.	Time.	Kew Observatory. Max.	Time.	Min.	Time.
1.0	14h-15h, 19h-21h, 19h	<0.3	1h-4h, 20h	1.6	15h 19h	0.1	3h 20h

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 19th November. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 20th November. 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	1012.9	SE	3	bc	55	1016.2	E	2	b	46	61	46	10	—
Brussels	1015.4	SE'E	3	b	50	1017.2	SSE	2	bc	39	61	?	—	—
Berlin	1025.4	ESE	3	o	37	1025.3	SE'E	4	o	43	41	39	—	—
Vienna						1017.9	SSE	1	m	34		34		—
Rome	1014.6	NNE	1	b	55						68		—	

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.

† 1hr observations are from Valentia W/T station ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 21st November 1933.

No. 26297

OBSERVATIONS at 13h. G.M.T. 20th 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)	1017·1	0	-	0	F	48	95	0	5	-	-	10	10	<150
	Croydon	1016·3	-6	E'S	2	bc/f	60	65	6	-	5	-	0	4-6	-
	S. Farnborough	1016·5	-2	E'N	2	3o	56	85	5	-	3	-	0	4-6	-
	Boscombe Down	1015·5	-4	SE'E	3	bc	56	85	6	8	-	-	4-6	4-6	1500
	Calshot, S'thmtn	1015·8	-2	E	2	bc	54	85	7	1	3	4	1	2-3	2500
	Dungeness	*	*	NE	1	bc	*	*	6	5	-	*	2-3	2-3	2500
	Lympne	1016·8	-6	ENE	2	bc	58	75	7	-	-	1	0	2-3	-
2	Shoeburyness	1017·5	+2	E	3	c	54	85	6	-	3	-	0	7-8	-
	Felixstowe	1017·6	+2	NE'E	2	3o	53	95	5	-	3	-	0	7-8	-
	Gorleston	1017·9	+4	ENE	3	m	51	95	4	4	-	-	7-8	7-8	1500
	Cranwell	1016·8	-8	E	1	F	47	95	1	5	-	-	10	10	<150
3	Birmingham	1017·0	+8	SSE	2	c	50	95	5	5	-	-	7-8	7-8	1500
	Upper Heyford	1016·9	-2	E	1	3o	56	85	6	-	-	1	0	Tr	-
4	Ross-on-Wye	1016·1	+4	SE	2	c	52	85	6	5	-	-	9+	9+	2500
5	Portland Bill	1015·2	+12	SSE	3	c	54	95	7	5	-	-	10	10	2500
	Plymouth	1014·3	+10	E	1	c/r	54	95	6	9	-	-	9+	9+	450
	The Lizard	1014·6	+4	NNW	3	bc	54	85	8	8	5	1	4-6	4-6	2500
	Scilly (St. Mary's)	1015·3	+4	N	2	bc	54	85	7	2	4	5	Tr	4-6	4000
	Guernsey	1014·5	+4	-	0	d. d.	53	95	6	6	-	-	10	10	1500
6	Pembroke	1014·4	+8	-	0	m	52	95	4	5	-	-	10	10	800
7	Holyhead	1015·4	+10	ESE	1	r. r.	52	95	5	5	-	-	10	10	1500
	Chester (Sealand)	1016·6	+10	SSE	3	c	54	85	6	5	-	6	2-3	7-8	1500
8	L'pool (Bidston)	1016·6	+8	E'S	3	bc	52	85	6	5	-	5	2-3	4-6	1500
	Manchester	1017·1	+12	SE	2	3o	54	85	6	5	8	2	1	7-8	1500
9	Harrogate	1017·9	+6	S	1	F	46	95	1	5	-	-	10	10	<150
10	Spurn Head	1018·8	0	SE	3	cf	50	95	3	5	2	-	4-6	7-8	<150
	Catterick	1018·3	+10	SE	1	o	47	95	5	5	-	-	10	10	450
	Tynemouth	1017·8	+6	S	3	of	49	95	3	5	-	-	10	10	1500
11	Inchkeith	1016·1	+10	E	1	c	50	95	7	8	1	-	7-8	10	1500
	Leuchars	1017·4	+10	SE	3	c	52	85	5	5	-	-	7-8	7-8	2500
12	Renfrew (Abbotts I.)	1015·8	+14	E'S	1	of	51	95	3	5	-	-	10	10	1500
	Eskdalemuir	1016·7	+8	SSE	3	c	50	85	6	5	-	-	10	10	800
13A	Tiree	1014·7	+14	SE'S	2	o/r	50	95	6	5	-	-	10	10	800
13B	Stornoway	1014·9	+10	-	0	c	50	95	8	8	6	-	7-8	10	1500
15	Dalwhinnie	1016·2	+6	S	1	tr.	48	95	6	4	4	-	7-8	10	800
	Aberdeen	1018·2	+10	SE'S	4	o	50	95	5	5	-	-	10	10	800
	Wick	1017·3	+10	SSE	6	c	50	95	7	6	2	-	7-8	10	1500
16	Lerwick	1020·6	+4	S'E	7	rr	47	95	7	6	-	-	10	10	450
17	Blacksod Point	1013·7	+12	-	0	bc	46	95	8	2	4	-	4-6	4-6	1500
18	Malin Head	1014·2	+12	S	2	3o	48	95	5	3	-	-	7-8	7-8	450
	Aldergrove	1015·7	+14	SW	1	m	46	95	4	5	-	-	10	10	800
	Donaghadee	1014·9	+8	-	0	0	50	95	5	5	-	-	10	10	800
19	Birr Castle	1015·2	+12	S	1	b	47	95	8	-	4	-	0	1	-
20	Valentia Obsy.	1016·6	+22	NW	4	c	49	75	8	8	5	-	4-6	7-8	2500
	Roches Point	1014·8	+8	SW	2	bc	51	95	8	3	-	-	2-3	2-3	2500

OBSERVATIONS at 18h. G.M.T. 20th 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)	1017·7	+6	NE	2	bf	51	95	2	-	-	-	0	0	-	1	*
	Croydon	1017·5	+10	ENE	1	bf	48	95	2	-	-	-	0	0	-	1	*
	S. Farnborough	1017·2	+8	ENE	2	cf	51	95	3	-	3	-	0	9	-	1	*
	Boscombe Down	1017·1	+14	-	0	bc	50	95	6	-	3	-	0	4-6	-	1	*
	Calshot, S'thmtn	1016·5	+6	N	1	c	50	95	6	-	7	-	0	9	-	1	0
	Dungeness	*	*	NE	1	c	*	*	5	5	5	*	4-6	7-8	1500	*	1
	Lympne	1017·1	+2	NE'N	3	3o	49	95	5	-	3	-	0	1	-	1	*
2	Shoeburyness	1017·5	+4	N	1	bf	44	95	3	-	-	-	0	0	-	1	*
	Felixstowe	1017·9	+6	NE	3	m	50	95	4	5	-	-	10	10	450	1	2
	Gorleston	1018·9	+6	NE'E	3	F	47	95	1	5	-	-	10	10	<150	0	3
	Cranwell	1019·6	+16	NE'N	1	F	47	95	1	5	-	-	10	10	<150	1	*
3	Birmingham	1019·2	+18	NNE	2	m	49	95	4	5	3	-	4-6	9+	800	1	*
	Upper Heyford	1018·1	+10	ENE	3	f	48	95	3	5	-	-	10	10	<150	1	*
4	Ross-on-Wye	1017·7	+10	E	2	3o	51	95	5	5	-	-	10	10	2500	1	*
5	Portland Bill	1016·8	+12	SSE	3	c	53	95	7	5	-	-	10	10	2500	1	3
	Plymouth	1016·1	+12	N	2	3o	53	95	6	5	7	9	4-6	7-8	800	1	1
	The Lizard	1016·2	+10	NNE	3	c	49	95	8	4	4	-	7-8	7-8	2500	1	2
	Scilly (St. Mary's)	1017·6	+12	N'E	2	bc	49	95	7	2	4	-	1	2-3	4000	1	1
	Guernsey	1015·7	+10	-	0	o	53	85	7	5	-	-	10	10	1500	1	2
6	Pembroke	1016·4	+16	NNE	1	m	51	95	4	5	-	-	10	10	800	1	1
7	Holyhead	1016·5	+6	SE'E	1	c	51	95	5	5	-	-	10	10	1500	1	0
	Chester (Sealand)	1019·1	+20	SSE	1	m	48	95	4	5	-	-	9	9	1500	1	*
8	L'pool (Bidston)	1019·1	+10	E'S	3	3o	49	95	5	5	-	-	4-6	4-6	1500	0	*
	Manchester	1019·2	+18	NE'E	2	bf	45	95	2	-	-	-	0	0	-	1	*
9	Harrogate	1020·3	+6	S	1	dF	45	95	1	5	-	-	10	10	<150	1	*
10	Spurn Head	1019·6	+8	ESE	3	F	48	95	1	5	-	-	10	10	<150	0	2
	Catterick	1020·2	+14	SSW	1	d. d.	47	95	4	5	-	-	10	10	450	1	*
	Tynemouth	1019·5	+16	WSW	1	o	50	95	6	5	-	-	10	10	1500	1	2
11	Inchkeith	1019·3	+20	ESE	2	c	49	95	7	5	-	-	10	10	1500	0	1
	Leuchars	1019·4	+18	SE	2	c	49	95	5	5	-	1	4-6	7-8	2500	1	*
12	Renfrew (Abbotts I.)	1018·7	+18	E'S	1	m	50	95	4	5	-	-	10	10	800	1	*
	Eskdalemuir	1019·2	+14	-	0	c	48	95	6	5	-	-	10	10	1500	1	*
13A	Tiree	1017·8	+20	S	2	3o	49	95	6	5	1	8	4-6	9	1500	1	1
13B	Stornoway	1017·1	+10	S	2	c	50	95	7	8	6	-	4-6	10	1500	1	1
15	Dalwhinnie	1019·5	+18	S	2	c	47	95	5	4	-	-	10	10	800	1	*
	Aberdeen	1020·9	+18	SES	3	o	50	95	5	5	-	-	10	10	800	1	3
	Wick	1018·7	+16	S	5	c	51	95	7	6	2	-	7-8	10	1500	1	4
16	Lerwick	1021·8	+8	SW'S	7	cd.	47	95	6	6	-	-	10	10	800	1	*
17	Blacksod Point	1018·5	+24	W	2	c	46	85	8	-	5	-	0	7-8	-	1	2
18	Malin Head	1017·6	+18	S	2	m	41	95	4	5	-	-	1	1	1500	1	0
	Aldergrove	1018·8	+20	SW	1	o	44	95	5	5	-	-	10	10	450	1	*
	Donaghadee	1017·9	+16	NW	1	c	48	95	6	5	-	-	9	9	1500	1	0
19	Birr Castle	1018·6	+28	S	1	c	46	95	7	5	-	-	9	9	2500	1	*
20	Valentia Obsy.	1020·4	+26	NW'N	3	c	49	65	8	5	3	-	2-3	9	2500	1	2
	Roches Point	1018·2	+16	NW	3	r. r.	47	95	7	6	-	-	9	9	1500	1	4

PAST 24 HOURS.

Stations.	Weather. 7h.–13h. 20th (37)	Weather. 13h.–18h. 20th (38)	Weather. 18h. 20th to 1h. 21st (39)	Weather. 1h.–7h. 21st (40)
London (Kew)	oFe	oFecfbfe	bfom	omoirm
Croydon	bcff3	bcm f	offe	ofomd
S. Farnborough	of bcm	bccFe	efem	omidc
Boscombe Down	Fecm	cbcm	bcbf	bfoidm
Calshot, S'thmtn	cmbcm bc	bccm	cm bcm	bcmcmgd
Dungeness	bc	bc	*	f
Lympne	bcm b	cbm	bm ife	oqdm
Shoeburyness	bcfm	bcbm	bcm	oirm
Felixstowe	bcfcm	bcm	omf	fom
Gorleston	cm	comff	ffo3	o3oq
Cranwell	oFe	oFe	oFd	odm
Birmingham	c	cbccm	cofd	ofid
Upper Heyford	Feb	bbccbofe	oife	ofd
Ross-on-Wye	c	cboc	cmom	omodf
Portland Bill	c	c	co3	c
Plymouth	cRrrm	cbcm	bcmm	bcmcmgw
The Lizard	cbc	bcc	pr bc	bcprc
Scilly (St. Mary's)	bc	bc	bbcc	c
Guernsey	od	od	o	o
Pembroke	cm ec	comcrc	cd m bc	c
Holyhead	offr r o	om c	oid bcm	fefeo
Chester (Sealand)	cbcm	bccm	bcfFe	FFe
L'pool (Bidston)	m bbc	bcm	bccmf	offe
Manchester	bfcm	bcbff	btwm	bmc
Harrogate	bfF	FFd	oFFd	od
Spurn Head	f	fFf	ffd	dfe
Catterick	ofcom	m md d	od dom	ofr dd
Tynemouth	off	offo	omifo	oir o
Inchkeith	c	c	cbc	bccife
Leuchars	cbccm	bcm cm	cbccm	bccomc
Renfrew (Abbotts I.)	om ffcr	offom	omorr	or mom
Eskdalemuir	cm	cm	cbcofm	omo
Tiree	om cr	om cd o	cbc	bbcxif
Stornoway	cpr, c	c	c	cm
Dalwhinnie	cr	cr	*	c
Aberdeen	om d	ocd m	oid	oid
Wick	or rc	c	c	c
Lerwick	ocrrr	orrcd m	oid m	oid mo
Blacksod Point	bc	bc	bc	bc
Malin Head	cpr3	cbc3	3	bc3 c
Aldergrove	offd	om	om	omff
Donaghadee	m cd o	ocm	cpr c	crr c
Birr Castle	b	bc	cff	ffx
Valentia Obsy.	crrc	c	cbc	bcbbw
Roches Point	bc	bccm	r cbc	bc

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.
ip, 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. ⚡ gale.

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.

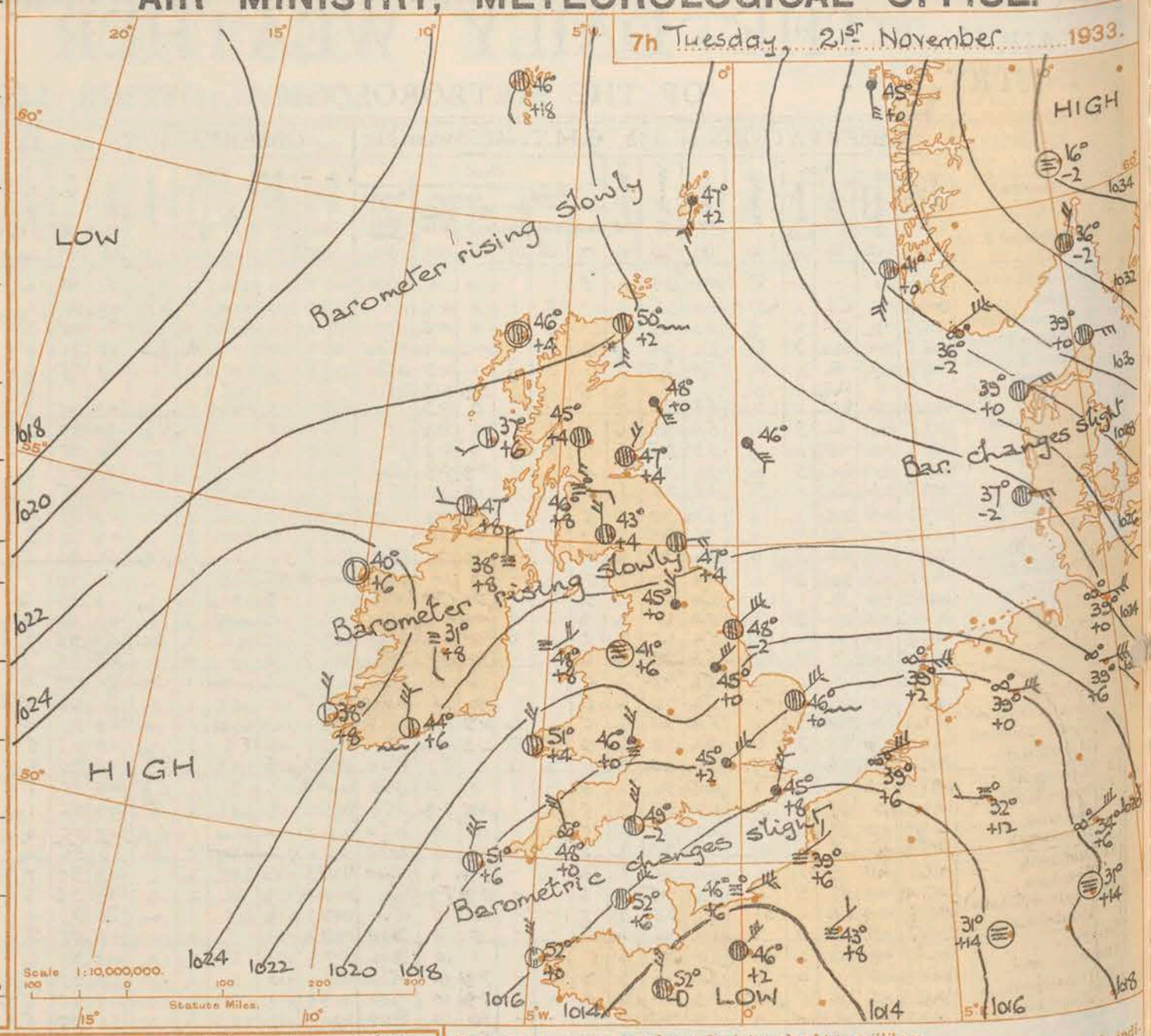
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for 20th November 1933.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 19th to 9h. 20th	Temperature. Max. 9h.–17h. 20th	Rainfall. Night, 17h. 19th to 9h. 20th	Rainfall. Day. 9h.–17h. 20th	Sunshine. Sunrise to Sunset. 20th
1	Tunbridge W.	ofbc	bem	43	54	Trace	-	4·8
	Bournemouth	do	bcm	48	56	4	-	2·5
	Ventnor ...	roz	b bcz	50	59	2	-	6·3
	Southsea ...	b	b	48	58	1	-	6·3
	Bognor Regis	bcb	bcebc	42	56	0·3	-	4·2
	Littlehampton	bc	bc	47	59	Trace	-	4·2
	Worthing ...	bc	bece	48	57	Trace	Trace	4·5
	Brighton ...	cbc	bfc	47	58	-	-	3·9
	Eastbourne†	bmbc	bcbbc	46	55	Trace	-	5·5
	Hastings† ...	bcbc	bcc	49	58	0·3	-	5·9
	Folkestone ...	wbf	bbc	46	56	-	-	6·0
	Dover... ...	wbbc	bcbm	45	58	Trace	-	6·2
	Deal	b	b	43	54	-	-	5·6
	Ramsgate ...	bcfm	bcm	48	54	Trace	-	6·2
	Margate ...	bc	bc	50	56	-	-	5·9
2	Southend ...	bf	bm	48	56	0·2	-	4·2
	Maldon ...	fb	cbm	39	54	-	-	3·7
	Clacton-on-Sea	bcm	bcm	48	54	-	-	4·3
	Dovercourt ...	bcwm	bcwm	45	55	-	-	4·2
	Lowestoft ...	cbcm	bccf	46	53	-	-	2·1
	Skegness ...	obc	b	43	51	Trace	-	3·7
	Mablethorpe	ofacbcm	bccom	40	51	Trace	-	4·9
	Cleethorpes...	oFme	bce	41	51	0·3	-	1·1
3	Leamington S.	oec	cm	45	56	-	-	1·7
4	Cheltenham†	omec	cgbm	48	54	1	-	1·1
5	Bath	cd	cc	48	55	5	Trace	0·0
	Weymouth ...	c	c	52	55	2	-	0·0
	Jersey ...	pcz	cz	51	54	Trace	-	0·0
	Torquay ...	Rpc	bcz	49	57	9	-	1·7
	Penzance ...	wcbb	bbc	49	57	Trace	-	6·0
	St. Ives ...	b	b	50	54	-	-	5·4
	Bude	odm	odm	50	52	5	2	0·0
	Ilfracombe ...	cod	odc	49	55	5	0·4	0·2
6	Aberystwyth	prcr	urgc	46	53	3	2	0·0
7	Llandudno ...	cmo	cmc	45	55	3	-	0·5
	Colwyn Bay...	becbc	ccbcc	46	59	4	-	1·2
	Rhyl	mcbc	cbc	45	57	4	-	1·4
8	Wallasey ...	bc	bc	48	54	4	-	2·6
	Southport‖ ...	cbc	bczom	48	53	8	-	0·6
	Blackpool ...	cbc	c	49	53	9	-	1·0
	Morecambe ...	cbccb	cchcc	48	55	4	-	3·0
9	Ilkley... ...	m	mfc	46	48	1	-	0·0
10	Berwick-on-T.	c	c	48	50	2	-	0·0
11	Dunbar ...	rbcm	cmo	47	54	1	-	4·1
12	Troon... ...	rcmo	omocm	46	53	5	Trace	0·0
	Douglas ...	omcid	omcid	47	52	2	0·3	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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. T Thunder. K Thunderstorm. co Slight haze.
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. 21st. Nov. 1933.

Districts.	Forecasts
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N Midlands 10. N.E. England	Moderate or light northeast wind; dull, local drizzle; some mist; moderate temperature.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W Scotld. B. N.W. Scotland. 14. Mid-Scotland	Light variable wind; cloudy or variable sky; local fog; moderate temperature.
15. N.E. Scotland 16. Orkneys and Shetlands.	Moderate or light southeast or south wind; dull, local drizzle; moderate temperature.
17. N.W. Ireland 18. N.E. Ireland	Light variable to moderate southerly wind; fair; perhaps deteriorating later; local fog night and morning; moderate temperature.
19. S.E. Ireland	As 11 - 14.
20. S.W. Ireland	As 17.

GENERAL INFERENCE.

A large anticyclone over Russia is moving southeast. There is another anticyclone near the Azores with a connecting ridge over Ireland and Scotland. A shallow depression over Southern France is moving slightly northwest. Weather will be dull in most districts with local drizzle. A depression off South Greenland may affect West Ireland tomorrow.

FURTHER OUTLOOK.

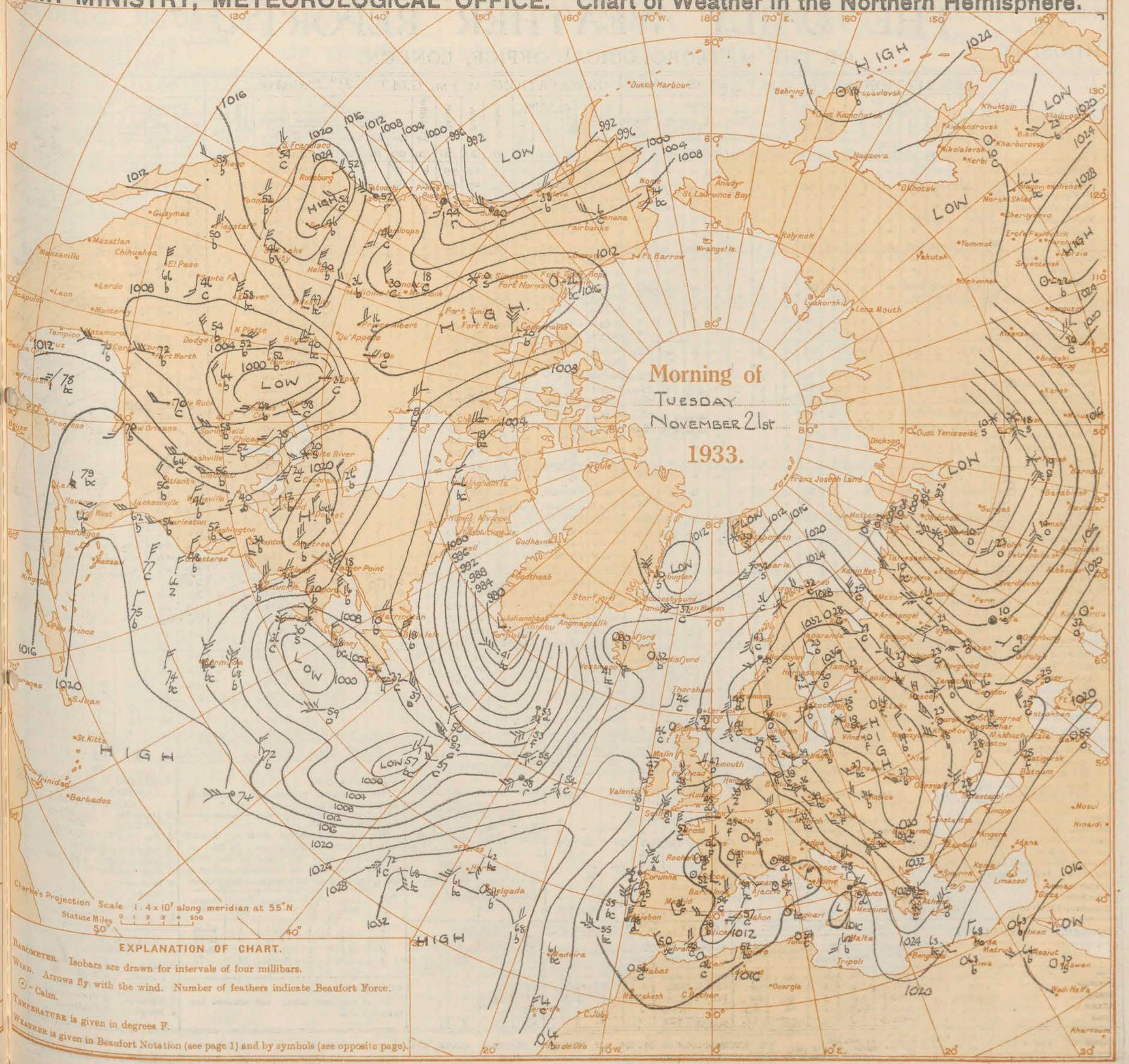
Little change in most districts; perhaps less settled in West Ireland and Northwest Scotland.

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

Tuesday, 21st November 1933.

No. 26297

OBSERVATIONS at 1 hr. G.M.T. 21st November

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	1018.2	+6	NE	3	f	47	95	3	5	-	-	10	10	<150
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1016.9	+2	NNE	4	3o	46	95	5	5	-	-	10	10	450
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1018.8	+2	NNE	4	o	46	95	6	5	-	-	10	10	1500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1017.0	0	NE	3	o	51	95	6	5	-	-	10	10	1500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1017.4	+2	NNE	3	bc	51	95	7	8	-	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1018.7	-2	N	5	c	51	85	7	8	6	-	4-6	7-8	2500
	Guernsey	175	1016.0	-2	-	0	o	53	95	7	5	-	-	10	10	1500
6	Pembroke	142	1017.9	+4	NNE	2	3o	50	95	6	5	-	-	4-6	4-6	1500
7	Holyhead	26	1020.0	+10	WNW	1	bc	51	95	5	5	-	-	4-6	4-6	800
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1020.7	+2	ENE	3	dm	47	95	4	5	-	-	10	10	<150
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	100	1021.7	+6	SE	2	o	49	95	6	6	-	-	10	10	1500
11	Inchkeith	190	1022.0	+8	SE	1	bc	46	95	7	5	-	-	4-6	4-6	1500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts'D)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1020.6	+10	-	0	c	51	95	6	8	6	-	7-8	10	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1021.8	+8	S	4	c	50	95	7	5	2	-	7-8	10	1500
16	Lerwick	54	1024.0	+8	SW'S	5	id	47	95	6	6	-	-	10	10	800
17	Blacksod Point	18	1023.4	+12	W	2	bc	46	85	8	2	-	-	2-3	2-3	2500 4000
18	Malin Head	52	1021.3	+12	S	1	3o	37	95	6	5	-	-	Tr.	Tr.	1500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	90	1023.2	+14	NW	2	bc	47	85	8	-	6	-	0	2-3	-
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 21st November

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)
1	London (Kew)	1018.4	+2	NNE	3	ir	45	95	6	5	-	-	10	10	1500	1	*
	Croydon	1018.0	+2	NE'N	4	dd	45	95	5	5	-	-	10	10	450	1	*
	S. Farnborough	1017.3	0	NE'N	4	id	45	95	5	5	-	-	10	10	1500	1	*
	Boscombe Down	1017.8	+2	N'E	4	id	44	95	5	6	-	-	10	10	450	1	*
	Calshot (S'thmtn)	1017.3	+2	N	3	c/d	46	95	7	6	2	-	9	10	800	1	2
	Dungeness	*	*	NE	3	cf	*	*	3	5	-	*	9	9	800	*	2
	Lympne	1016.6	+8	NNE	4	id	45	95	6	5	-	-	10	10	450	1	*
2	Shoeburyness	1017.9	0	NNE	3	ir	45	95	5	5	-	-	10	10	1500	1	*
	Felixstowe	1017.3	0	NNE	3	o	46	95	6	5	-	-	10	10	1500	0	2
	Gorleston	1018.3	0	NE'E	4	o	46	95	6	6	-	-	10	10	1500	0	4
	Cranwell	1020.8	0	NE'N	3	dd	45	95	5	5	-	-	10	10	450	1	*
3	Birmingham	1020.4	0	NNE	3	df	45	95	2	5	-	-	10	10	450	1	*
	Upper Heyford	1019.3	+2	NE	3	dd	44	95	6	6	-	-	10	10	450	1	*
4	Ross-on-Wye	1019.4	0	NNE	2	df	46	95	3	5	-	-	10	10	450	1	*
5	Portland Bill	1016.8	-2	NNE	3	c	49	95	7	5	-	-	10	10	1500	1	3
	Plymouth	1017.7	0	NNW	3	3o	48	95	6	5	-	-	7-8	7-8	<150	1	0
	The Lizard	1017.4	0	E'N	3	c	51	95	8	4	1	1	4-6	7-8	2500	1	2
	Scilly (St. Mary's)	1019.4	+6	N'E	5	c	51	95	6	5	-	-	9+	9+	2500	1	3
	Guernsey	1016.2	+6	NE	4	o	52	95	6	5	-	-	10	10	1500	1	3
6	Pembroke	1019.4	+4	NNE	2	c	51	95	6	5	-	-	9	9	1500	1	1
7	Holyhead	1021.0	+8	NE	2	f	48	95	2	5	-	-	10	10	<150	1	0
	Chester (Sealand)	1021.9	+6	-	0	F	41	95	1	5	-	-	10	10	<150	1	*
8	L'pool (Bidston)	1022.1	+6	-	0	of	42	95	2	5	-	-	10	10	450	0	*
	Manchester	1021.1	+2	ENE	2	3o	47	95	5	5	-	-	10	10	800	1	*
9	Harrogate	102[illegible].7	0	N	2	dd	45	95	5	5	-	-	10	10	2500	1	*
10	Spurn Head	1020.1	-2	NE'E	4	c	48	85	6	5	2	-	4-6	10	1500	0	3
	Catterick	1022.5	+2	NNE	2	df	45	95	3	5	-	-	10	10	450	1	*
	Tynemouth	1022.9	+4	E	2	olr	47	95	6	6	-	-	10	10	1500	1	2
11	Inchkeith	1022.6	-6	SE	1	3o	43	95	6	5	3	-	4-6	7-8	1500	1	2
	Leuchars	1023.1	+4	NE	2	o	47	95	5	5	-	-	10	10	800	1	*
12	Renfrew (Abbotts'D)	1022.8	+8	E'S	1	m	46	95	4	5	-	-	10	10	800	1	*
	Eskdalemuir	1022.8	+4	N	2	o	43	95	5	5	-	-	10	10	220	1	*
13A	Tiree	1022.4	+6	SWW	1	bc	37	95	6	5	7	6	2-3	4-6	2500	1	2
13B	Stornoway	1021.6	+4	-	0	c	46	95	6	5	7	-	7-8	9	800	1	0
15	Dalwhinnie	1023.9	+4	S	2	c	45	95	6	4	4	-	7-8	10	800	1	*
	Aberdeen	1023.6	0	SE	3	id	48	95	5	5	-	-	10	10	450	1	3
	Wick	1021.9	+2	S	4	c	50	95	7	5	1	-	4-6	7-8	1500	1	4
16	Lerwick	1024.4	+2	SSW	5	id	47	95	6	8	-	-	10	10	450	1	*
17	Blacksod Point	1024.3	+6	-	0	b	40	75	8	1	-	-	Tr	Tr	4000	0	1
18	Malin Head	1022.9	+8	W	1	c	47	85	8	5	-	-	9+	9+	1500	1	0
	Aldergrove	1023.6	+8	N	1	f	38	95	3	5	-	-	10	10	<150	1	*
	Donaghadee	1022.7	+6	NW	2	c	42	95	7	5	-	-	7-8	7-8	1500	1	1
19	Birr Castle	1023.9	+8	S	1	of	31	95	3	5	-	-	10	10	2500	1	*
20	Valentia Obsy.†	1024.8	+8	NNE	2	b	38	85	8	5	-	-	1	1	2500	1	*
	Roches Point	1022.6	+6	N	4	bc	44	85	8	3	-	-	2-3	2-3	2500	0	4

PAST 24 HOURS.

Division	Stations	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 20th Hrs. (36)
1	London (Kew)	53	45	44	0.1	0.1	0.0
	Croydon	60	45	41	Tr	Tr	2.2
	S. Farnborough	58	44	44	Tr	Tr	4.0
	Boscombe Down	58	43	43	0.1	Tr	3.6
	Calshot (S'thmtn)	55	46	42	-	0.1	6.3
	Dungeness	56	46	*	-	Tr	*
	Lympne	58	45	45	0.1	Tr	6.9
2	Shoeburyness	55	42	40	-	0.2	4.7
	Felixstowe	54	44	44	Tr	Tr	3.5
	Gorleston	51	44	43	-	-	1.5
	Cranwell	47	45	44	0.1	0.5	0.0
3	Birmingham	51	44	44	-	0.1	0.3
	Upper Heyford	57	43	43	Tr	0.2	*
4	Ross-on-Wye	52	45	40	-	0.1	0.0
5	Portland Bill	55	47	*	-	-	*
	Plymouth	55	48	45	8	-	0.0
	The Lizard	54	48	*	-	0.2	*
	Scilly (St. Mary's)	54	48	*	-	-	7.1
	Guernsey	55	52	48	0.1	-	0.0
6	Pembroke	52	48	*	0.6	0.4	0.0
7	Holyhead	52	48	46	1	0.1	0.0
	Chester (Sealand)	54	39	31	-	Tr	1.5
8	L'pool (Bidston)	52	41	37	-	-	3.2
	Manchester	55	42	34	-	Tr	*
9	Harrogate	47	45	44	Tr	1	0.0
10	Spurn Head	50	45	*	-	Tr	1.2
	Catterick	48	45	45	Tr	0.6	0.0
	Tynemouth	50	47	46	-	0.4	*
11	Inchkeith	52	42	33	-	Tr	0.4
	Leuchars	54	44	35	-	-	2.9
12	Renfrew (Abbotts'D)	51	46	43	0.4	1	0.0
	Eskdalemuir	50	40	35	-	-	0.0
13A	Tiree	50	37	27	1	-	0.0
13B	Stornoway	50	45	*	0.1	-	0.0
15	Dalwhinnie	48	44	39	1	Tr	0.0
	Aberdeen	50	48	48	0.2	0.3	*
	Wick	51	50	*	0.6	-	0.0
16	Lerwick	48	46	*	2	0.2	*
17	Blacksod Point	50	39	*	-	-	0.0
18	Malin Head	50	36	*	1	-	2.9
	Aldergrove	48	37	36	0.1	0.1	0.0
	Donaghadee	52	40	*	0.3	3	*
19	Birr Castle	50	30	27	-	-	4.1
20	Valentia Obsy.†	50	38	33	1	-	1.5
	Roches Point	52	42	*	2	0.2	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except Greenwich & Hampstead 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	oFe	oFecfbfe	bfoicm	53	45	44	0.1	0.1	0.0	*	*	6
CROYDON	217	bcff3o	bcmof	offecfd	60	45	41	Tr	Tr	2.2	*	*	4
GREENWICH (Royal Observatory)	149	bFe	Fecbf	cfcdm	55	44	40	Tr	0.3	0.9	91	93	4
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
WESTMINSTER (St. James' Park)	27	*	*	*	56	44	44	—		0.3	82	88	*
‡REGENTS PK. (Botanic Gardens)	168	*	*	*	55	45	43	Tr		0.0	86	92	*
CAMDEN SQUARE	110	fc	c	*	52	44	38	-	0.3	*	*	94	*
KENSINGTON	80	bcfbcm	cof	*	53	45	39	Tr	0.2		At 18h. 92		*
HAMPSTEAD OBSERVATORY	450	of	bcm	ofd	55	42	40	-	0.3	2.0	99 *	99	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 21st

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.
3.2	11h 20m	<0.3	23h 20m to 7h 21st

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
Record defective			

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 20th November Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 21st November 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	1013.9	N	2	3o	52	1015.0	NE	1	f	43	?	41	?	—
BRUSSELS	1015.8	NE	4	o	46	1016.2	ENE	1	F	36	61	32	—	—
BERLIN	1025.5	E	4	o	39	1027.6	ESE	4	f	36	41	36	—	—
ZÜRICH	1014.8	ENE	1	m	43	1017.2	WNW	1	3o	39	55	36	—	—
ROME	1012.6	—	0	cr	52	1015.0	NNE	2	c	?	63	32	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 "	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.

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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 ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 22nd November 1933.

No. 26298

OBSERVATIONS at 13h. G.M.T. 21st 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)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	1017·6	-8	NNE	3	o	46	85	5	5	-	-	10	10	1500
	Croydon	1017·5	-6	NE'N	2	$d_o d_o$	45	85	4	5	-	-	10	10	800
	S. Farnborough	1017·5	-6	NNE	3	id_o	45	85	6	5	-	-	10	10	1500
	Boscombe Down	1017·8	-10	NNE	3	dd	44	95	5	5	-	-	10	10	<150
	Calshot, S'thmtn	1017·5	-6	N	3	id_o	46	85	6	5	-	-	10	10	800
	Dungeness			NE	2	3_o			5	5	-	-	10	10	1500
	Lympne	1016·4	-10	NE'N	3	3_o	46	85	5	5	-	-	10	10	800
2	Shoeburyness	1016·7	-8	NNE	2	o	46	95	5	5	-	-	10	10	450
	Felixstowe	1017·2	-8	N'E	3	o	47	85	6	5	-	-	10	10	1500
	Gorleston	1017·3	-12	NE	4	o	45	95	6	5	-	-	10	10	1500
	Cranwell	1019·3	-14	NNE	2	id_o	45	95	6	5	-	-	10	10	450
3	Birmingham	1019·4	-6	NNE	3	df	45	95	3	6	-	-	10	10	450
	Upper Heyford	1018·7	-10	NE	3	r_o	44	95	6	6	-	-	10	10	450
4	Ross-on-Wye	1019·0	-6	NNE	3	o	46	85	5	5	-	-	10	10	800
5	Portland Bill	1017·4	+12	NE	4	o	47	95	7	5	-	-	10	10	1500
	Plymouth	1018·5	+2	NE	3	3_o	50	95	6	5	-	-	10	10	450
	The Lizard	1018·3	0	NNE	3	c	52	95	8	4	-	-	10	10	2500
	Scilly (St. Mary's)	1019·2	-8	N'E	5	o	51	95	6	5	-	-	10	10	1500
	Guernsey	1016·6	0	ENE	2	o	50	85	6	5	-	-	10	10	1500
6	Pembroke	1018·8	-2	NNE	3	b	53	85	4	5	-	-	1	1	1500
7	Holyhead	1020·4	-10	NE'N	1	o	50	95	5	5	-	-	10	10	800
	Chester (Sealand)	1021·4	-8	NW	2	of	46	95	3	5	-	-	10	10	800
8	L'pool (Bidston)	1022·1	0	N'W	2	m	45	95	4	5	-	-	10	10	800
	Manchester	1020·8	-6	NE	2	o/d	47	95	4	5	-	-	10	10	800
9	Harrogate	1020·8	-6	ENE	2	dd	45	95	4	5	2	-	$9+$	10	<150
10	Spurn Head	1018·8	-6	ENE	3	c	48	95	6	5	2	-	7·8	10	1500
	Catterick	1021·3	-14	N	2	$d_o d_o$	45	95	5	5	-	-	10	10	450
	Tynemouth	1021·9	-8	ENE	2	o/d	47	95	7	6	-	-	10	10	1500
11	Inchkeith	1022·9	-10	ESE	1	of	45	95	3	5	-	-	10	10	800
	Leuchars	1022·2	-10	E	2	id_o	48	95	6	5	2	-	$9+$	10	220
12	Renfrew (Abbotts I.)	1022·2	-10	-	0	f	45	95	3	5	-	-	10	10	800
	Eskdalemuir	1022·0	-6	NE'N	2	id_o	44	95	6	5	-	-	10	10	220
13A	Tiree	1022·8	-4	NW'W	2	c	49	65	8	5	3	6	Tr	$9+$	2500
13B	Stornoway	1021·7	-8	SW	1	c	47	95	7	8	6	-	4·6	$9+$	1500
15	Dalwhinnie	1022·3	-8	S	1	c	46	95	7	4	4	-	7·8	10	1500
	Aberdeen	1022·5	-10	SSE	2	$d_o d_o$	48	95	5	5	-	-	10	10	800
	Wick	1021·7	-6	SSE	4	c	50	95	8	4	2	-	7·8	10	1500
16	Lerwick	1023·7	-8	S	4	c	46	95	7	8	2	-	9	$9+$	800
17	Blacksod Point	1024·1	-2	-	0	b	50	65	8	-	-	-	0	0	-
18	Malin Head	1022·6	-6	W	1	c	50	85	7	2	9	9	2·3	7·8	1500
	Aldergrove	1023·2	-10	W'S	1	3_o	42	95	7	5	7	-	7·8	$9+$	450
	Donaghadee	1021·9	-6	NW	1	c	48	85	7	5	3	-	4·6	7·8	1500
19	Birr Castle	1024·0	-10	-	0	b	40	95	8	-	-	-	0	0	-
20	Valentia Obsy.	1024·4	-12	NNW	2	b	49	65	9	1	-	1	Tr	Tr	4000
	Roches Point	1022·4	-6	N	3	bc	48	75	8	3	-	-	2·3	2·3	2500

OBSERVATIONS at 18h. G.M.T. 21st 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)	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)	1017·4	0	NNE	3	o	46	85	6	5	-	-	10	10	1500	1	*
	Croydon	1017·0	0	NE'N	2	3_o	45	85	5	5	-	-	10	10	1500	1	*
	S. Farnborough	1017·2	0	N'E	2	id_o	45	85	6	5	-	-	10	10	1500	1	*
	Boscombe Down	1017·8	+2	N'E	3	dd	44	95	6	5	-	-	10	10	450	1	
	Calshot, S'thmtn	1017·4	+8	N'E	3	c	46	85	7	5	-	-	10	10	1500	1	1
	Dungeness			NNE	2	o			6	5	-	*	10	10	1500	*	1
	Lympne	1016·4	+2	N	2	3_o	45	85	5	5	-	-	10	10	800	1	*
2	Shoeburyness	1016·4	+2	NNE	1	o	45	95	5	5	-	-	10	10	800	1	*
	Felixstowe	1016·9	-2	N'W	2	3_o	45	85	6	5	-	-	10	10	800	0	1
	Gorleston	1016·7	-4	NE	2	o	45	85	6	5	-	-	10	10	1500	0	3
	Cranwell	1018·2	-6	NNE	1	id_o	45	95	5	5	-	-	10	10	450	1	*
3	Birmingham	1018·8	0	NNW	3	id_o	45	95	5	5	-	-	10	10	800	1	*
	Upper Heyford	1018·0	0	NE	3	3_o	45	95	6	6	2	-	$9+$	10	450	1	*
4	Ross-on-Wye	1018·7	0	N'E	2	id_o	46	85	4	5	-	-	10	10	800	1	*
5	Portland Bill	1017·7	+6	NE	3	id_o	45	95	7	5	-	-	10	10	1500	1	3
	Plymouth	1018·4	+8	NNE	3	3_o	48	85	6	5	-	-	10	10	800	1	1
	The Lizard	1018·8	+6	NNE	3	bc	48	95	7	4	-	-	4·6	4·6	2500	1	2
	Scilly (St. Mary's)	1019·5	+6	N	5	o	51	95	6	5	-	-	10	10	1500	0	3
	Guernsey	1016·9	+6	NE	1	o	49	85	7	5	-	-	10	10	1500	0	2
6	Pembroke	1021·0	+4	NNE	1	c	50	85	5	5	-	-	9	9	800	1	1
7	Holyhead	1019·9	-2	NNE	3	id_o	49	95	5	5	-	-	10	10	800	1	2
	Chester (Sealand)	1020·4	+2	NW'N	2	df	46	95	3	5	-	-	10	10	800	1	*
8	L'pool (Bidston)	1020·3	0	NW'N	2	o	46	95	6	5	-	-	10	10	1500	0	
	Manchester	1019·6	+2	NE	2	m	46	85	4	5	-	-	10	10	1500	1	*
9	Harrogate	1019·6	-6	N	1	$d_o d_o$	44	95	5	5	-	-	10	10	2500	1	*
10	Spurn Head	1017·8	-4	ENE	3	c	47	95	7	-	2	-	0	10	-	0	2
	Catterick	1019·9	-4	N'W	2	$d_o d_o$	44	95	5	5	-	-	10	10	450	1	*
	Tynemouth	1020·3	-4	ENE	2	id_o	46	95	6	6	-	-	10	10	1500	1	2
11	Inchkeith	1021·6	-4	NW	1	df	46	95	3	5	-	-	10	10	800	1	2
	Leuchars	1020·9	-6	N	1	id_o	46	95	6	5	-	-	10	10	220	1	*
12	Renfrew (Abbotts I.)	1021·0	-6	NW'N	1	m	47	95	4	5	-	-	10	10	1500	1	*
	Eskdalemuir	1020·5	-4	N'E	1	o/d	44	95	6	5	-	-	10	10	800	1	*
13A	Tiree	1022·1	-2	WNW	2	b	40	85	8	-	4	-	0	1	-	0	1
13B	Stornoway	1021·0	0	SW	1	c	45	95	8	4	6	-	4·6	7·8	2500	1	1
15	Dalwhinnie	1021·2	-4	-	0	c	44	95	6	4	4	-	7·8	10	800	0	
	Aberdeen	1021·3	-8	SE'E	2	$d_o d_o$	47	95	6	5	-	-	10	10	800	1	3
	Wick	1020·2	-4	S	4	c	49	95	8	8	2	-	7·8	10	1500	1	3
16	Lerwick	1021·7	-8	S	4	c	46	95	7	5	2	-	4·6	10	1500	1	*
17	Blacksod Point	1023·1	-6	W	1	bc	41	95	8	2	-	-	4·6	4·6	4000	0	2
18	Malin Head	1022·2	-2	-	0	b	44	85	9	5	-	-	Tr	Tr	2500	0	0
	Aldergrove	1022·5	-2	NW'N	2	bc	42	85	8	5	-	-	2·3	2·3	4000	1	*
	Donaghadee	1021·4	-2	NW	2	c	50	85	7	5	-	-	9	9	1500	1	2
19	Birr Castle	1023·6	0	N	1	b	39	95	8	-	-	-	0	0	-	1	*
20	Valentia Obsy.	1023·8	+2	NNE	2	b	39	85	9	-	3	1	0	Tr	-	1	2
	Roches Point	1021·9	+4	N	3	bc	45	75	8	3	-	-	2·3	2·3	2500	0	3

PAST 24 HOURS.

District	Stations.	Weather. 7h.–13h. 21st (37)	13h.–18h. 21st (38)	18h. 21st to 1h. 22nd (39)	1h.–7h. 22nd (40)
1	London (Kew)	$od_o m_o$	$o3_o$	$o_g o id_o m$	cm
	Croydon	$od_o d_o m_o n$	$od_o m$	$cm_o o m_o$	om_o
	S. Farnborough	$oid_o m_o$	$oid_o m_o$	$od_o m_o$	om_o
	Boscombe Down	$oid_o odd$	$oid_o m_o$	$oid_o m_o$	om_o
	Calshot, S'thmtn	$od_o m_o$	$oid_o m_o$	$cm_o id_o m_o$	$cm_o id_o m_o$
	Dungeness	o	o		o
	Lympne	$oid_o m_o$	om_o	$om_o m$	$om_o d_o d_o$
2	Shoeburyness	$ocr_o om_o$	om_o	om_o	$oir_o cm_o$
	Felixstowe	om_o	om_o	om_o	cm_o
	Gorleston	$og3_o$	$og3_o$	$o3-3_o$	$o3_o 3_o$
	Cranwell	$od_o d_o m_o$	$od_o m_o$	$od_o m_o$	om_o
3	Birmingham	$of d_o d_o$	$of id_o$	oid_o	$oid_o m$
	Upper Heyford	$id_o m_o$	$id_o m_o$	$cd_o m_o$	$cd_o m_o$
4	Ross-on-Wye	$d_o fomid_o$	$omid_o$	om	om
5	Portland Bill	oiro	oido	oid_o	o
	Plymouth	cwbcm,c	$od_o m_o$	$om_o c$	cm_o
	The Lizard	c	cbc	bco	o
	Scilly (St. Mary's)	co	o	ocbcc	c
	Guernsey	ofo	o	o	o
6	Pembroke	cmmbcb	bcm,c	$cmid_o c$	$cm_o c$
7	Holyhead	$ffem_o o$	$om_o o$	$od_o m_o o$	ocm_o
	Chester (Sealand)	Fefo	$id_o fo$	$od_o m$	$od_o m_o$
8	L'pool (Bidston)	Ffmo	mogo	od_o	o
	Manchester	cofd	om	om	ocm_o
9	Harrogate	ofmdd	modd	ocd_o	c
10	Spurn Head	bc	co	o	oc
	Catterick	$omd_o d_o m_o$	$om_o dd$	$odd_o m_o$	$om_o c$
	Tynemouth	oid_o	oid_o	odd_o	$od_o d$
11	Inchkeith	$c3_o ffe$	offeid	of	$o3_o c$
	Leuchars	ddmfid	$oid_o dm_o$	$id_o d_o m_o$	$cm_o d_o c$
12	Renfrew (Abbotts I.)	off	$offm$	$or_o c$	cbc
	Eskdalemuir	oid_o	$oid_o m_o$	$od_o d_o$	$od_o d$
13A	Tiree	cimc	c	bwxW	bx
13B	Stornoway	c	c	cb	b
15	Dalwhinnie	c	c	*	ir
	Aberdeen	$od_o d_o$	$od_o d_o$	$od_o cr_o$	$cr_o c$
	Wick	c	c	$cr_o rr$	crrbc
16	Lerwick	$cid_o m_o c$	cid_o	cido	ciRbc
17	Blacksod Point	bc	bc	bc	bc
18	Malin Head	cbc	cbc	bc	bc
	Aldergrove	$offc m_o$	$cm_o b$	b	bffx
	Donaghadee	c	c	bc	bc
19	Birr Castle	fcb	b	bx	bx
20	Valentia Obsy.	bwbw	bc	bvbwbx	bx
	Roches Point	bc	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_o, 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: thns.
R, heavy rain. r_o, slight rain. rr, continuous rain.
<, less than (for cloud height).
⊕, Solar halo. ⦶ lunar halo. ⚑ gale.

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.

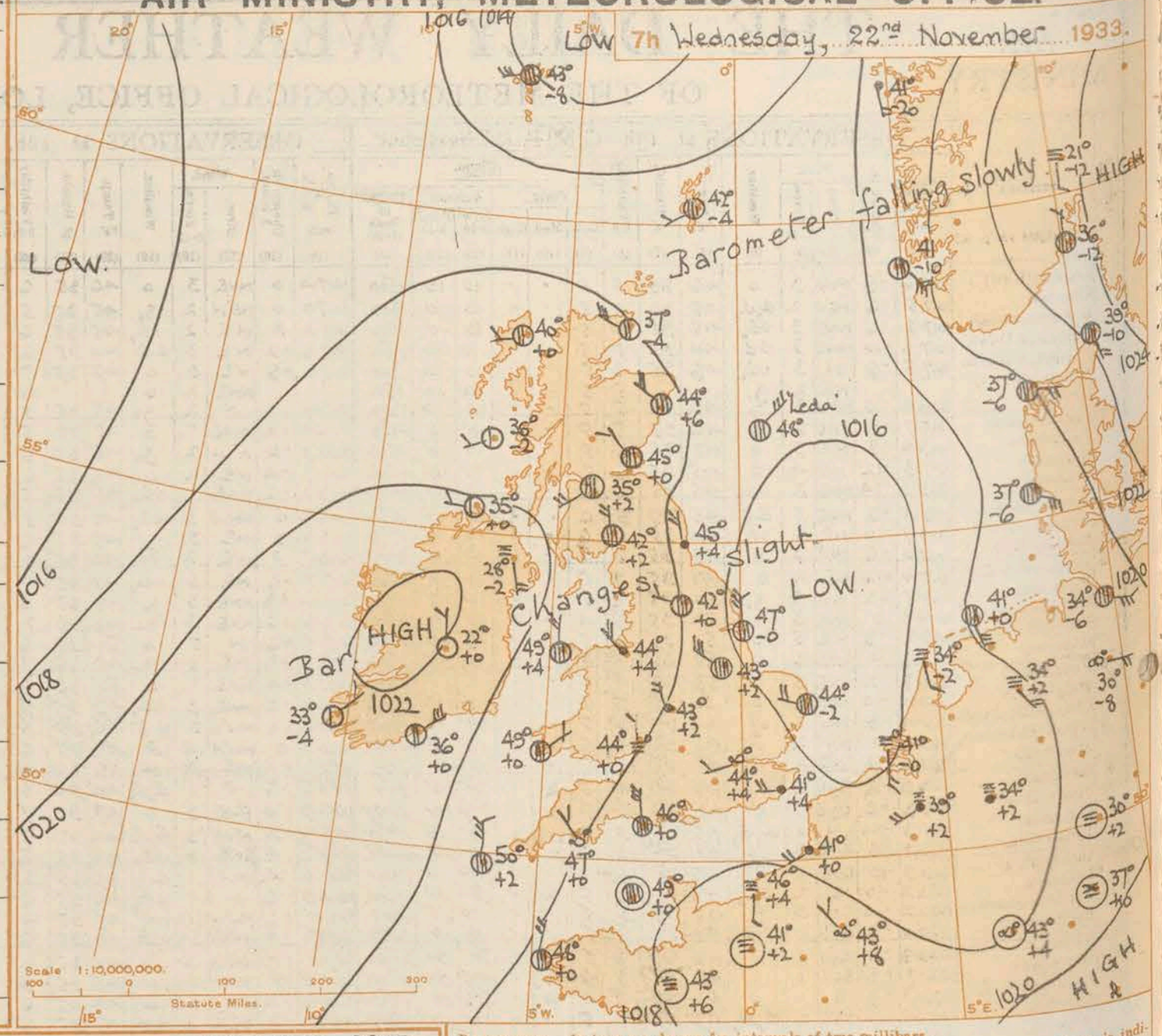
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 21st November 1933.

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.	ood	oe	43	45	0·3	Trace	0·0
	Bournemouth	d	d	45	46	–	0·3	0·0
	Ventnor ...	odo3	odo3	45	45	Trace	Trace	0·0
	Southsea ...	o	o	45	47	–	–	0·0
	Bognor Regis	o	o	45	46	–	–	0·0
	Littlehampton	co	o	45	47	–	–	0·0
	Worthing ...	o	o	45	47	–	–	0·0
	Brighton ...	co	c	45	47	–	–	0·0
	Eastbourne†	ome	oeom	45	50	0·1	Trace	0·0
	Hastings† ...	ozo	o	44	?53	0·3	–	0·0
	Folkestone ...	omo	omo	46	48	–	–	0·0
	Dover... ...	mo	mo	47	49	–	–	0·0
	Deal	o	o	46	50	–	–	0·0
	Ramsgate ...	om	om	45	49	–	–	0·0
	Margate ...	c	c	46	48	–	–	0·0
2	Southend ...	ofdo	ofm	44	46	0·3	Trace	0·0
	Maldon ...	o	o	44	46	–	–	0·0
	Clacton-on-Sea	om	odm	44	47	–	–	0·0
	Dovercourt ...	ocm	oc	45	47	–	–	0·0
	Lowestoft ...	c	c	44	46	–	–	0·0
	Skegness ...	oe	o	45	47	Trace	–	0·0
	Mablethorpe	omo	omo	45	47	–	–	0·0
	Cleethorpes...	og	o	45	47	–	–	0·0
3	Leamington S.	omd	omd	45	47	Trace	0·1	0·0
4	Cheltenham†	omjol	oidm	44	48	Trace	Trace	0·0
5	Bath	cdo	cdo	46	48	Trace	Trace	0·0
	Weymouth ...	oc	ce	47	48	–	–	0·0
	Jersey ...	c3	ec3	50	51	–	Trace	0·0
	Torquay ...	oemo	omo	48	49	Trace	–	0·0
	Penzance ...	o	cbcoo	49	55	–	–	0·4
	St. Ives ...	o	o	51	53	–	–	0·0
	Bude	cbc	bcm	43	52	–	–	0·9
	Ilfracombe ...	og	o	47	51	–	–	0·0
6	Aberystwyth	dfbc	bcc3	39	50	0·5	–	4·9
7	Llandudno ...	fom	mmo	40	48	0·1	–	0·0
	Colwyn Bay...	ffoo	foom	38	47	–	–	0·0
	Rhyl	of	omo	39	46	Trace	–	0·0
8	Wallasey ...	focbc	bc	38	47	–	–	0·0
	Southport‖ ...	oco	o	41	48	–	–	0·0
	Blackpool ...	ofec	co	40	48	0·2	–	0·2
	Morecambe ...	cbcbc	bcdpc	39	48	Trace	Trace	2·6
9	Ilkley... ...	odo	odo	44	46	Trace	Trace	0·0
10	Berwick-on-T.	o	pro o	44	47	–	Trace	0·0
11	Dunbar ...	ofro	odomo	40	47	Trace	0·5	0·0
12	Troon... ...	rocmc	mcmco	45	49	0·5	0·0	0·2
	Douglas ...	omoc	bbcmo	47	51	1	–	3·1

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :— Clear sky. Sky less than 1/10 clouded. Sky 4/10 to 6/10 clouded. Sky 7/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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 Nov, 1933.

Districts.	Forecasts
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N Midlands 10. N.E England	Light northwest or north to variable wind; dull; slight local drizzle; local mist and possibly fog later; moderate temperature.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Light northwest wind; becoming variable or southwest; fair; local fog later; moderate day temperature; frost at night.
13. A. W. Scotld. B. N.W. Scotland	Light west wind; backing south; fair; local fog; moderate day temperature, frost inland at night.
14. Mid-Scotland 15. N.E. Scotland	As 11 - 12.
16. Orkneys and Shetlands.	Light or moderate west to northwest wind; variable cloud, some showers; temperature falling somewhat.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light variable to southerly wind; fair; local fog; day temperature mainly moderate, frost locally at night

GENERAL INFERENCE.

Pressure continues to give way over Scandinavia, but a ridge of high pressure covers the British Isles. A depression far out on the Atlantic is moving slowly northeast. Weather will be quiet and mainly dull in England but brighter in Scotland and Ireland. Fog will occur locally.

FURTHER OUTLOOK.

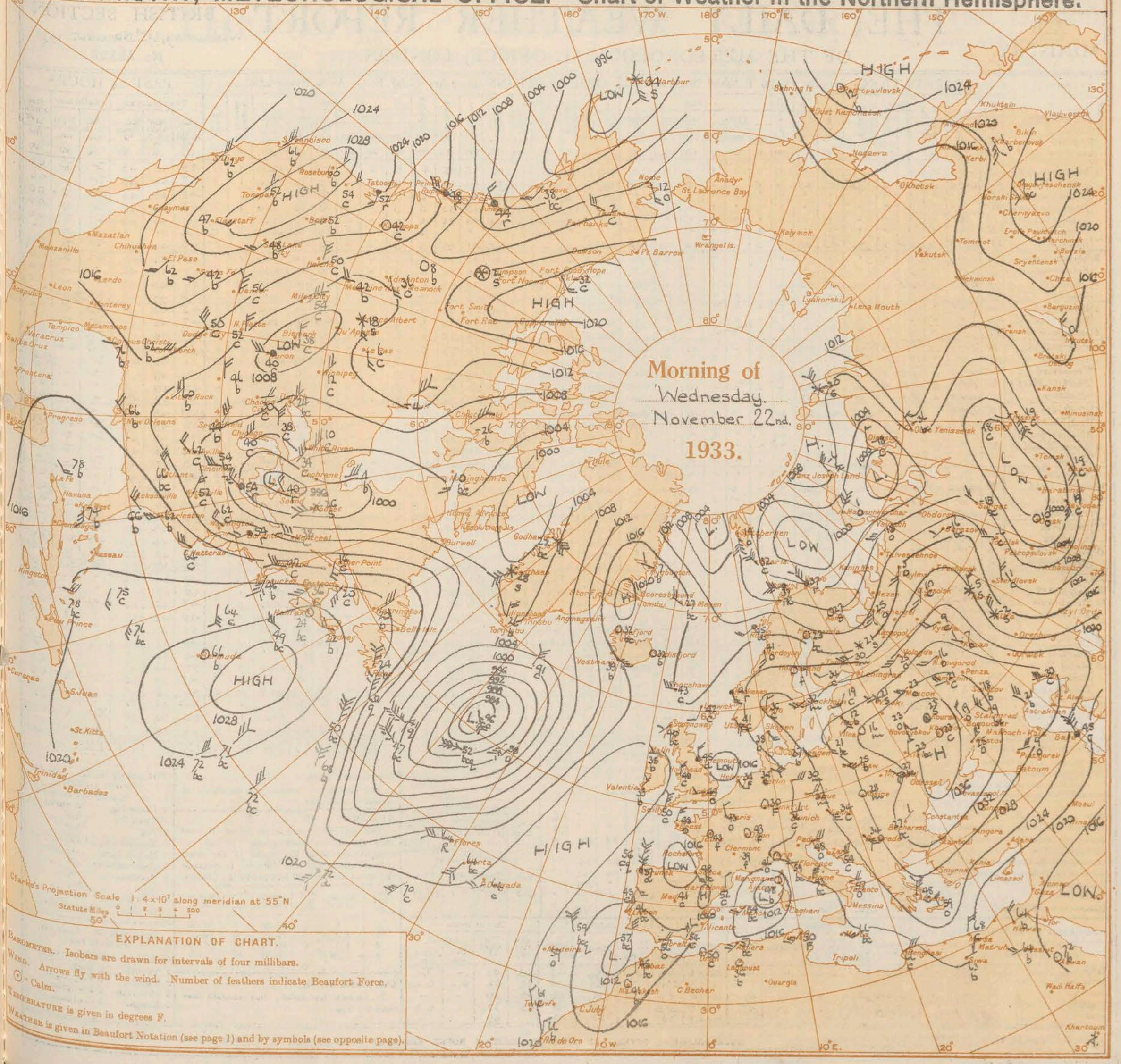
Probably becoming less settled in the extreme west and northwest; quiet over England and Southeast Scotland with local fog.

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

Forecasts issued at 1020 G.M.T.

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

Wednesday, 22nd November 1933.

No. 26298

OBSERVATIONS at 1 hr. G.M.T. 22nd November

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	1017.2	0	NW'N	2	3o	45	85	6	5	-	-	10	10	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1017.1	+2	WNW	2	3o	43	95	5	5	-	-	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1015.9	-2	NW'N	2	3o	44	95	6	5	-	-	10	10	1500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1017.1	-2	N	3	0	46	95	7	5	-	-	10	10	1500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1019.2	0	NNE	2	0	48	95	7	5	-	-	10	10	4000
	Scilly (St. Mary's)	163	1019.9	0	N'E	4	c	51	95	6	5	-	-	10	10	2500
	Guernsey	175	1017.4	0	N'W	1	0	48	85	7	5	-	-	10	10	1500
6	Pembroke	142	1018.8	0	N	1	o/d	49	95	6	5	-	-	10	10	1500
7	Holyhead	26	1019.6	-2	N	3	0	50	85	6	5	-	-	10	10	800
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1016.2	-4	N'E	2	c	47	95	7	-	2	-	0	10	-
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	100	1018.5	-6	NNW	2	do	46	95	6	6	-	-	10	10	1500
11	Inchkeith	190	1019.9	-6	W	1	3o	45	95	5	5	-	-	10	10	1500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts'D)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1019.9	-10	-	0	b	38	95	8	4	-	-	1	1	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1019.0	-4	WNW	3	rr	45	95	8	6	2	-	7-8	10	1500
16	Lerwick	54	1017.3	-20	S	5	c	46	95	7	5	-	-	10	10	800
17	Blacksod Point	18	1021.5	-4	-	0	c	45	85	8	-	7	-	0	7-8	-
18	Malin Head	52	1021.1	-6	S	1	b	37	95	9	5	-	-	Tr	Tr	2500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1022.5	-6	-	0	b	40	95	8	-	-	-	0	0	-
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 22nd 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)	1017.2	+2	W	1	m	45	95	4	5	2	-	7-8	10	1500	1	*
	Croydon	1017.4	+4	W'S	1	3o	44	95	5	5	-	-	10	10	2500	1	*
	S. Farnborough	1017.2	0	NW	3	0	44	95	6	5	-	-	10	10	800	1	*
	Boscombe Down	1018.0	+2	NNW	2	0	43	95	5	5	-	-	10	10	2200	1	*
	Calshot (S'thmtn)	1017.7	0	WNW	2	o/d	45	85	6	5	-	-	10	10	1500	1	1
	Dungeness	*	*	NW'W	1	0	*	*	5	5	-	*	10	10	1500	*	0
	Lympne	1017.6	+4	W	2	dodo	41	95	5	5	-	-	10	10	800	1	*
2	Shoeburyness	1016.7	0	W	1	c	43	95	5	5	-	-	10	10	2500	1	*
	Felixstowe	1016.5	0	WNW	2	3o	44	85	6	5	-	-	10	10	1500	0	1
	Gorleston	1015.7	-2	WNW	2	0	44	95	6	5	-	-	10	10	1500	0	2
	Cranwell	1017.2	+2	NW	3	0	43	95	5	5	-	-	10	10	800	1	*
3	Birmingham	1018.1	+2	NNW	2	id	43	95	4	5	-	-	10	10	800	1	*
	Upper Heyford	1017.7	+2	NE	3	c/d	43	85	6	5	2	-	7-8	10	800	1	*
4	Ross-on-Wye	1018.3	0	N	1	m	44	95	4	5	-	-	10	10	800	1	*
5	Portland Bill	1017.1	0	N	3	0	46	95	7	5	-	-	10	10	1500	1	3
	Plymouth	1018.9	0	NW	1	3o	47	85	6	5	-	-	10	10	2500	1	0
	The Lizard	1019.2	0	-	0	0	48	95	7	5	-	-	10	10	2500	1	1
	Scilly (St. Mary's)	1019.8	+2	N	4	c	50	85	6	8	-	-	9	9	2500	0	3
	Guernsey	1017.7	0	-	0	0	49	75	7	5	-	-	10	10	2500	0	3
6	Pembroke	1019.0	0	NE	1	c	49	95	6	5	-	-	9	9	1500	1	1
7	Holyhead	1019.3	+4	N'E	2	c	49	85	6	5	-	-	9+	9+	2500	1	1
	Chester (Sealand)	1019.4	+4	NW	2	id	44	95	6	5	-	-	10	10	800	1	*
8	L'pool (Bidston)	1019.6	0	N	2	0	44	85	8	5	-	-	10	10	1500	0	*
	Manchester	1018.7	+2	N'E	2	3o	45	85	6	5	-	-	10	10	1500	1	*
9	Harrogate	1018.1	0	W'N	1	c	42	95	7	6	2	-	9	10	4000	1	*
10	Spurn Head	1015.7	0	N	4	c	47	95	7	3	2	-	4-6	10	4000	0	2
	Catterick	1018.5	+2	NW	3	c	44	85	7	5	-	-	10	10	2500	1	*
	Tynemouth	1017.6	+4	NNW	2	dodo	45	95	6	6	-	-	10	10	1500	1	2
11	Inchkeith	1019.3	+6	W	2	c	44	95	6	5	-	-	10	10	1500	0	1
	Leuchars	1019.0	0	NW	1	c	45	95	7	5	-	-	9+	9+	2500	1	*
12	Renfrew (Abbotts'D)	1019.6	+2	SW'W	2	c	35	95	8	5	-	1	4-6	7-8	4000	1	*
	Eskdalemuir	1018.9	+2	N	2	c	42	95	7	5	-	-	9	9	2500	1	
13A	Tiree	1019.7	-2	SW'W	1	b	36	95	9	7	3	-	1	1	4000	0	1
13B	Stornoway	1018.6	0	WSW	1	bc	40	95	8	8	-	-	2-3	2-3	2500	1	1
15	Dalwhinnie	·	+2	-	0	bc	26	95	8	4	1	-	2-3	4-6	2500	5	*
	Aberdeen	1018.4	+6	WNW	2	c	44	85	7	8	7	-	4-6	7-8	4000	1	2
	Wick	1018.1	-4	WNW	3	bc	37	95	8	5	-	8	2-3	2-3	2500	1	2
16	Lerwick	1016.2	-4	SW	1	bc	42	95	8	5	3	-	4-6	10	1500	1	*
17	Blacksod Point	1019.4	-4	S	2	bc	46	85	8	-	7	-	0	4-6	-	0	2
18	Malin Head	1020.4	0	W	1	b	35	95	9	5	3	-	Tr	Tr	2500	5	0
	Aldergrove	1021.5	-2	SSE	2	bf	28	95	2	-	-	-	0	0	-	4	*
	Donaghadee	1020.3	0	NE	1	bc	37	85	8	5	3	-	4-6	4-6	1500	0	0
19	Birr Castle	1022.6	0	N	1	b	22	95	8	-	-	-	0	0	-	4	*
20	Valentia Obsy.†	1021.3	-4	NE'N	1	b	33	95	8	5	-	-	Tr	Tr	4000	1	*
	Roches Point	1021.5	0	NE	3	bc	36	95	8	3	-	-	2-3	2-3	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)	48	45	43	Tr	Tr	0.0
	Croydon	47	44	43	Tr	-	0.0
	S. Farnborough	45	43	43	Tr	Tr	0.0
	Boscombe Down	45	43	42	Tr	Tr	0.0
	Calshot (S'thmtn)	46	44	43	Tr	Tr	0.0
	Dungeness	54	41	*	-	-	*
	Lympne	46	41	41	Tr	Tr	0.0
2	Shoeburyness	46	42	41	0.1	Tr	0.0
	Felixstowe	47	43	42	-	-	0.0
	Gorleston	46	43	42	-	-	0.0
	Cranwell	48	43	43	0.1	Tr	0.0
3	Birmingham	45	42	41	0.3	Tr	0.0
	Upper Heyford	47	43	41	Tr	Tr	*
4	Ross-on-Wye	47	44	43	0.2	-	0.0
5	Portland Bill	48	45	*	0.3	0.2	*
	Plymouth	51	46	45	Tr	-	1.5
	The Lizard	53	48	*	-	-	*
	Scilly (St. Mary's)	52	49	*	-	-	0.0
	Guernsey	54	48	46	-	-	0.0
6	Pembroke	(53)	48	*	-	1	1.2
7	Holyhead	50	49	47	Tr	0.1	0.0
	Chester (Sealand)	46	43	42	Tr	Tr	0.0
8	L'pool (Bidston)	46	44	43	-	Tr	0.0
	Manchester	48	44	43	Tr	-	*
9	Harrogate	45	42	41	1	0.1	0.0
10	Spurn Head	48	45	*	-	-	0.0
	Catterick	46	44	42	1	0.2	0.0
	Tynemouth	47	44	42	0.1	0.4	*
11	Inchkeith	47	43	42	Tr	1	0.0
	Leuchars	48	43	39	0.5	0.3	0.0
12	Renfrew (Abbotts'D)	47	32	29	Tr	0.3	0.0
	Eskdalemuir	45	39	37	Tr	0.2	0.0
13A	Tiree	49	34	20	-	-	1.9
13B	Stornoway	48	37	*	-	-	0.0
15	Dalwhinnie	47	25	23	-	3	0.0
	Aberdeen	48	43	41	1	1	0.0
	Wick	51	37	*	-	6	*
16	Lerwick	48	41	*	1	7	0.0
17	Blacksod Point	50	40	*	-	-	*
18	Malin Head	50	34	*	-	-	4.3
	Aldergrove	45	27	20	Tr	Tr	0.0
	Donaghadee	50	35	*	-	-	*
19	Birr Castle	44	22	15	-	-	4.2
20	Valentia Obsy.†	50	31	28	Tr	Tr	6.7
	Roches Point	49	35	*	-	-	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich & Hampstead 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	odmo	3o	ocidc	48	45	43	Tr	Tr	0.0	*	*	6
Croydon	217	odmo	odm	cmom	47	44	43	Tr	-	0.0	*	*	3
Greenwich (Royal Observatory)	149	oidm	omo	oidm	46	44	41	Tr	Tr	0.0	84	91	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park)	27	*	*	*	47	45	43	—		0.0	84	84	*
‡Regents Pk. (Botanic Gardens)	168	*	*	*	46	44	43	—		0.0	84	92	*
Camden Square	110	oc	c	*	45	44	43	Tr	Tr	*	*	89	*
Kensington	80	coeco	co	*	46	44	42	Tr	-	0.0	At 18h. 71%	91	*
Hampstead Observatory	450	ofd	ofd	om	44	41	38	Tr	Tr	0.0		98	*

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.
0.4	9h 21st	<0.3	21h 21st to 07h 22nd	0.3	21h 21st	0.1	24h 21st

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 21st November Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 22nd November 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	1016.7	-	0	m	41	1018.6	NW	1	3o	43	43	41	—	Tr
Brussels						1017.3	SSW	2	df	34	32	32	0.2	0.2
Berlin	1025.4	ESE	4	0	37	1021.5	E'S	3	m	30	39	30	—	—
Zürich	1018.8	NNW	1	m	41	1021.0	ESE	1	c/r	41	45	37	—	0.3
Rome						1020.2	NE	3	bc	43		43		—

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 48.
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. 1 Smooth. 2 Slight. 3 Moderate. 4 Rough. 5 Very rough. 6 High. 7 Very high. 8 Precipitous. 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.

†1hr. observations are from Valentia W/T station. ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 23rd November 1933.

No. 26299

OBSERVATIONS at 13h. G.M.T. 22nd 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)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)	1017.6	-6	NW	2	c	46	75	6	5	-	-	10	10	2500
	Croydon	1017.5	-2	WNW	2	m	45	85	4	5	-	-	10	10	2500
	S. Farnborough	1017.9	-2	WNW	2	cd₀	45	85	6	5	-	-	10	10	2500
	Boscombe Down	1018.5	-2	NW'N	3	o	43	95	5	5	-	-	10	10	450
	Calshot, S'thmtn	1018.6	+2	NW'W	2	cd₀	45	85	6	5	-	-	10	10	2500
	Dungeness	*	*	WSW	1	o	*	*	5	6	-	*	10	10	1500
	Lympne	1017.3	-10	WSW	2	cd₀	43	95	4	5	-	-	10	10	1500
2	Shoeburyness	1016.8	-4	WNW	1	o	46	95	5	5	-	-	10	10	800
	Felixstowe	1016.8	-2	WNW	2	3₀	45	85	5	5	-	-	10	10	1500
	Gorleston	1014.2	-6	WNW	2	m	45	85	4	5	-	-	10	10	1500
	Cranwell	1017.6	0	NW'N	3	d₀d₀	44	95	5	5	-	-	10	10	450
3	Birmingham	1018.5	0	NW	3	m	44	95	4	5	-	-	10	10	1500
	Upper Heyford	1018.2	-4	NNW	2	cd₀	44	95	6	6	2	-	7-8	10	800
4	Ross-on-Wye	1018.7	-4	N	2	c	44	85	6	5	-	-	10	10	2500
5	Portland Bill	1018.3	-2	NE	3	o	46	95	6	5	-	-	10	10	1500
	Plymouth	1019.2	-2	NW	1	m	49	85	4	5	-	-	10	10	1500
	The Lizard	1019.3	-4	NNE	1	o	49	95	7	5	-	-	10	10	2500
	Scilly (St. Mary's)	1020.1	-6	NNE	3	bc	51	85	7	5	-	-	2-3	2-3	4000
	Guernsey	1018.6	0	-	0	o	48	75	6	5	-	-	10	10	1500
6	Pembroke	1019.4	0	NE	1	c	50	75	7	1	1	-	4-6	7-8	2500
7	Holyhead	1019.5	-4	N'W	3	bc	49	65	8	4	-	-	2-3	2-3	4000
	Chester (Sealand)	1019.8	-6	NW'W	3	c	47	75	6	5	-	-	9+	9+	4000
8	L'pool (Bidston)	1019.5	-4	W	3	c	47	85	7	5	-	-	9+	9+	2500
	Manchester	1018.7	+8	NNW	3	3₀	48	85	5	5	-	-	10	10	4000
9	Harrogate	1018.0	0	NNW	2	c	46	95	7	6	7	-	7-8	9+	2500
10	Spurn Head	1015.7	0	N'W	4	c	47	85	7	3	2	-	4-6	10	4000
	Catterick	1018.5	-2	NW'N	3	c	48	85	7	7	-	-	10	10	1500
	Tynemouth	1018.0	-4	NNE	3	c₀	47	95	6	6	-	-	10	10	1500
11	Inchkeith	1019.8	-4	W	1	3₀	43	85	5	5	-	-	9	9	1500
	Leuchars	1019.2	-6	W	2	bc	48	65	8	5	-	-	2-3	2-3	2500
12	Renfrew (Abbotsl)	1019.5	-6	SW'W	2	3₀	46	85	6	-	-	1	0	Tr	-
	Eskdalemuir	1018.7	-4	NE	1	o	46	75	7	1	-	-	Tr	Tr	2500
13A	Tiree	1019.1	-6	SW	3	c	47	85	9	5	3	-	4-6	9+	4000
13B	Stornoway	1017.5	-8	SW	2	c	48	75	8	2	7	-	1	9+	4000
15	Dalwhinnie	*	-6	-	0	b	40	75	8	-	-	-	0	0	-
	Aberdeen	1018.9	0	NW'W	3	b	45	75	8	3	-	3	Tr	Tr	2500
	Wick	1019.0	+2	WNW	3	bc	46	85	8	4	6	-	4-6	4-6	2500
16	Lerwick	1015.1	-6	SW	2	c	47	75	8	8	7	-	4-6	7-8	2500
17	Blacksod Point	1018.3	-10	SSW	3	c	47	75	9	7	-	-	7-8	7-8	1500
18	Malin Head	1019.1	-10	S	2	c	44	95	9	5	-	-	9+	9+	2500
	Aldergrove	1020.7	-10	SW	1	3₀	42	75	7	-	7	6	0	4-6	-
	Donaghadee	1019.9	-4	NW	1	bc	48	75	7	8	3	-	2-3	4-6	1500
19	Birr Castle	1020.7	-6	S	1	bc	38	95	8	5	-	-	4-6	4-6	2500
20	Valentia Obsy.	1019.8	-14	SSE	4	c	50	75	9	7	-	3	1	7-8	2500
	Roches Point	1020.9	-4	N	1	bc	45	85	8	5	-	-	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 22nd 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)	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)	1017.8	+4	NW'N	2	o	45	85	6	5	-	-	10	10	1500	1	*
	Croydon	1017.7	+4	W'N	2	d₀d₀	45	85	4	5	-	-	10	10	1500	1	*
	S. Farnborough	1017.9	0	W'N	1	cd₀	43	95	6	5	-	-	10	10	1500	1	*
	Boscombe Down	1018.3	+2	NNW	1	o	42	95	5	5	-	-	10	10	450	1	
	Calshot, S'thmtn	1018.2	0	NW'N	3	cd₀	45	85	6	5	-	-	10	10	1500	1	1
	Dungeness	*	*	W'S	1	f	*	*	3	6	-	*	10	10	800	*	0
	Lympne	1017.1	0	WNW	2	of	43	95	3	5	-	-	10	10	450	1	*
2	Shoeburyness	1016.6	0	NNW	1	o	45	95	5	5	-	-	10	10	800	1	*
	Felixstowe	1016.3	+6	WNW	2	m	45	95	4	5	-	-	10	10	1500	0	1
	Gorleston	1015.3	+6	NW'W	2	3₀	45	95	5	5	-	-	10	10	1500	0	1
	Cranwell	1017.6	+4	NW	3	c	45	85	5	5	-	-	10	10	1500	1	*
3	Birmingham	1018.5	0	NW	2	o	45	85	5	5	-	-	10	10	1500	1	*
	Upper Heyford	1018.3	+4	NE	1	3₀	43	85	5	5	-	-	10	10	800	1	*
4	Ross-on-Wye	1018.7	0	NW	1	m	44	95	4	5	-	-	10	10	800	1	*
5	Portland Bill	1018.4	+4	NE	3	o	45	85	6	5	-	-	10	10	1500	1	3
	Plymouth	1018.8	+2	NNW	2	cf	49	85	3	5	-	-	7-8	7-8	4000	1	31
	The Lizard	1019.4	+4	NNE	2	c	47	85	8	4	1	-	4-6	7-8	2500	1	2
	Scilly (St. Mary's)	1019.8	+2	N	2	bc	47	85	8	5	-	-	2-3	2-3	4000	0	1
	Guernsey	1018.5	+4	-	0	o	48	75	6	5	-	-	10	10	1500	0	2
6	Pembroke	1018.7	+4	NNE	1	bc	46	85	7	7	7	-	2-3	4-6	2500	0	1
7	Holyhead	1019.3	+2	-	0	bc	44	85	8	4	-	4	1	2-3	4000	1	0
	Chester (Sealand)	1019.6	+4	NW'W	3	c	43	95	6	5	-	-	7-8	7-8	2500	1	*
8	L'pool (Bidston)	1019.8	+2	W	2	c	44	95	8	8	-	-	7-8	7-8	2500	0	*
	Manchester	1018.5	+2	-	0	3₀	44	85	5	5	-	-	9	9	2500	1	*
9	Harrogate	1018.5	0	W	1	c	45	95	7	5	-	-	9+	9+	4000	1	*
10	Spurn Head	1016.1	0	N	5	cd₀	47	95	7	5	2	-	4-6	10	4000	1	3
	Catterick	1018.9	+10	NW	2	c	44	85	7	5	-	-	7-8	7-8	2500	1	*
	Tynemouth	1018.3	+10	N	3	bc	45	85	6	2	-	-	4-6	4-6	2500	1	2
11	Inchkeith	1019.9	+4	SW	1	3₀	43	85	5	5	-	-	4-6	4-6	1500	0	1
	Leuchars	1019.0	0	SW	1	bc	35	95	8	-	-	1	0	2-3	-	1	*
12	Renfrew (Abbotsl)	1019.4	+6	-	0	fg₆	35	95	5	-	-	1	0	2-3	-	1	*
	Eskdalemuir	1019.9	+6	NW	1		33	95	6	5	-	-	1	1	2500	1	*
13A	Tiree	1018.4	0	S'W	3	c	44	85	9	5	7	-	4-6	9+	4000	0	1
13B	Stornoway	1017.2	+2	SSW	1	c	47	85	8	5	7	-	7-8	9	2500	1	1
15	Dalwhinnie	*	+2	-	0	c	32	95	7	4	2	-	4-6	10	1500	0	
	Aberdeen	1018.8	+2	W'N	1	b	36	95	5	-	3	-	0	Tr	-	1	1
	Wick	1017.5	-2	W	2	bc	42	85	8	5	7	-	4-6	4-6	2500	1	2
16	Lerwick	1014.0	-4	W	2	bc	45	95	8	5	1	-	4-6	4-6	1500	1	*
17	Blacksod Point	1016.9	-10	SSW	3	c	47	85	8	-	7	-	0	10	-	0	3
18	Malin Head	1018.2	-10	S	3	c	42	95	9	5	7	-	4-6	7-8	2500	0	0
	Aldergrove	1020.3	-2	ESE	1	3₀	34	95	6	5	7	2	1	2-3	4000	1	*
	Donaghadee	1019.5	+2	W	2	c	40	75	6	5	2	-	4-6	7-8	1500	0	0
19	Birr Castle	1019.8	-2	SSE	1	c	36	95	8	-	3	-	0	7-8	-	1	*
20	Valentia Obsy.	1018.3	-2	SSE	4	c	47	85	8	5	-	-	9	9	1500	1	2
	Roches Point	1019.0	-4	NW	1	bc	44	85	8	3	-	-	4-6	4-6	2500	0	2

PAST 24 HOURS.

District	Stations.	Weather 7h.–13h. 22nd (37)	Weather 13h.–18h. 22nd (38)	Weather 18h. 22nd to 1h. 23rd (39)	Weather 1h.–7h. 23rd (40)
1	London (Kew)	c m₀	o m₀	o f₀ m₀	c m₀ c m₀
	Croydon	o d₀ m f m	o m f d₀ m	o m d₀ d₀	o m d₀ § o m₀
	S. Farnborough	o m₀ d₀	o i d₀ m₀	o i d₀ d₀ d₀	o d d m₀ c
	Boscombe Down	o d₀ o m₀	o i d₀	c m₀	c m
	Calshot, S'thmtn	c i d₀ c m₀	c i d₀ m₀	c i d₀ m₀	c i d₀ m₀
	Dungeness	o	f		§
	Lympne	o c d₀ m	o d₀ o f f	o f f d d₀	o f § d d m
2	Shoeburyness	c m₀ o m₀	o m₀	o m₀	c i f₀ c
	Felixstowe	c 3₀	o 3₀ m	o m c m₀	c m₀ c p
	Gorleston	o m m	o m m₀	o 3₀ 3₀	o c
	Cranwell	o c d₀ m₀	o d₀ m₀ c	c m₀	c m₀
3	Birmingham	o c d₀ m	o m	o m d₀	o m b §
	Upper Heyford	c d₀	c d₀ m₀	c d₀ m₀	c f₀ m
4	Ross-on-Wye	d₀ m o m₀ c	c o m	o m	o c m₀
5	Portland Bill	o 3₀	o 3₀	o 3₀ o 3₀	o 3₀
	Plymouth	c m₀ m	c m₀ f f	c § § b c m₀	b c c m₀ w
	The Lizard	o	o c	c b c c	c b c
	Scilly (St. Mary's)	c b c	b c	b c c b c	b c c
	Guernsey	o	o	o	o
6	Pembroke	c	c o b c	b c w	b b c w
7	Holyhead	c m₀ b c	b c b	b b c m₀ w	b c m₀ w
	Chester (Sealand)	c d₀ c 3₀	c m₀	b c b m₀	b m § x
8	L'pool (Bidston)	o c d₀ c	c o c	c b w m	b b w c
	Manchester	c m m₀	c m m₀	c b x m	b x o f₂
9	Harrogate	c d₀	c	c	c
10	Spurn Head	c p d	c i d	c b c	b c c
	Catterick	c i d₀ c	c	c b c b x	b x b c c
	Tynemouth	o c r₀	o c r₀ b c	b c	b c c
11	Inchkeith	c 3₀	3 b c	c 3₀ 3₀	3 3 w
	Leuchars	b c w b c b	b w x	b x m₀	b x c m₀
12	Renfrew (Abbotsl)	b c b m₀	b b c m₀	b c § g₀ § §	o § §
	Eskdalemuir	c b	b	b b c b x	b x c x
13A	Tiree	b x b c c	c	c	c
13B	Stornoway	b b c₀ c	c p r₀	c	c p₀
15	Dalwhinnie	b c	b c	*	c
	Aberdeen	c b c 3₀ b	b 3₀ w	b w 3₀	b 3₀ x
	Wick	b c	b c	b c w	D d₀ d
16	Lerwick	b c c	c b c p r	b c c	c p₀
17	Blacksod Point	c b c	c b c	c	i r
18	Malin Head	b c c	c	c	c
	Aldergrove	b f x b c	b c c m₀ x	b m₀ x	b x
	Donaghadee	b c	b c c m₀	b c	b c x
19	Birr Castle	b b c	b c c	c b c	b c x
20	Valentia Obsy.	b x b c c c	c o	b c c	p r c
	Roches Point	b c	b c	b c w	b c w

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. gale.

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.

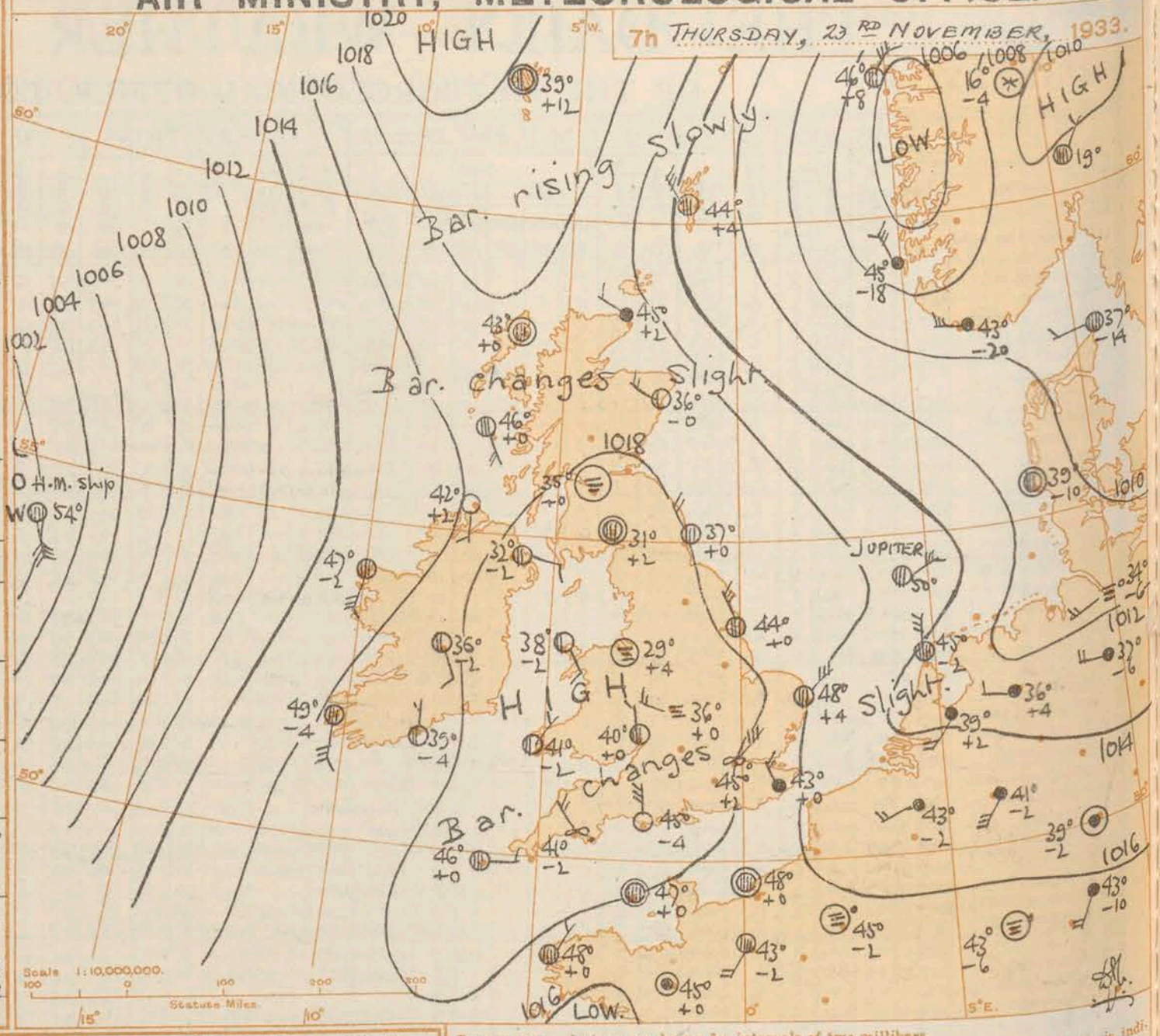
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for Wed., 22nd November, 1933.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	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.	omo	o	42	44	-	-	0·0
	Bournemouth	mo	m	44	45	0·3	-	0·0
	Ventnor ...	oz	odo	44	45	-	Trace	0·0
	Southsea ...	o	od.o	44	50	Trace	Trace	0·0
	Bognor Regis	o	o.o	45	46	Trace	Trace	0·0
	Littlehampton	o	o	44	46	-	-	0·0
	Worthing ...	o	o	44	46	-	-	0·0
	Brighton ...	cbc	bc	44	46	-	-	0·0
	Eastbourne†	o	o	43	46	-	-	0·0
	Hastings† ...	omo	om	42	45	0·2	-	0·0
	Folkestone ...	om	d.om	42	45	-	Trace	0·0
	Dover... ...	mo	mo	43	46	-	-	0·0
	Deal	o	o	43	46	-	-	0·0
	Ramsgate ...	om	om	42	47	-	-	0·0
	Margate ...	c	c	43	46	-	-	0·0
2	Southend ...	om	om	43	45	-	-	0·0
	Maldon ...	o	o	43	46	-	-	0·0
	Clacton-on-Sea	ogm	ogm	42	46	-	-	0·0
	Dovercourt ...	oc	oc	42	45	-	-	0·0
	Lowestoft ...	c	c	43	45	-	-	0·0
	Skegness ...	o	o	44	46	-	Trace	0·0
	Mablethorpe	om	om	45	47	-	-	0·0
	Cleethorpes ...	o	o	45	47	-	-	0·0
3	Leamington S.	o	o	44	45	-	-	0·0
4	Cheltenham†	mod.	omo	43	46	Trace	Trace	0·0
5	Bath	cmo	c	46	46	-	Trace	0·0
	Weymouth ...	mo	o	44	46	0·1	-	0·0
	Jersey ...	c3	c3	49	50	-	-	0·0
	Torquay ...	d.bom	oemo	45	48	Trace	-	0·0
	Penzance ...	cd.c	cbc	49	54	0·2	Trace	0·7
	St. Ives ...	d.co	c	50	52	-	Trace	0·0
	Bude	cbc	bem	40	51	-	-	1·2
	Ilfracombe ...	oc	bcco	49	51	-	-	0·7
6	Aberystwyth	c	bcc	42	49	-	-	0·5
7	Llandudno ...	cbc	bcw	43	49	Trace	-	0·2
	Colwyn Bay...	o	bcc	44	48	0·3	-	1·6
	Rhyl	cmo	cbc	42	49	-	-	1·5
8	Wallasey ...	ocbc	bc	44	47	-	-	0·3
	Southport‖ ...	ocbc	bcco	44	49	-	-	1·9
	Blackpool ...	oc	bcc	40	49	0·1	-	3·1
	Morecambe ...	cbcc	cbbec	41	49	-	-	2·6
9	Ilkley... ...	o	o	42	49	Trace	-	0·1
10	Berwick-on-T.	oc	bc	44	48	1	-	2·7
11	Dunbar ...	rbcm	bcmo	42	47	2	-	1·9
12	Troon... ...	cbxbm	bcfbf	34	56	Trace	-	5·6
	Douglas ...	bc	bc	40	49	-	-	6·6

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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. 23rd Nov., 1933.

Districts.	Forecasts
1. S.E. England 2. E. England...	Light northerly to variable wind; cloudy, local showers near East Coast at first; local fog later; moderate day temperature; colder at night.
3. E. Midlands 4. W. Midlands	Light variable wind; variable cloud, considerable fog; rather cold, frost locally at night.
5. S.W. England 6. South Wales 7. North Wales	Light variable wind; fair; local fog; moderate day temperature.
8. N.W. England 9. N Midlands 10. N.E England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	As 3 - 4.
13. A. W. Scotld. B. N.W. Scotland	Light or moderate southerly wind; cloudy, occasional rain locally; moderate temperature.
14. Mid-Scotland 15. N.E Scotland	Light variable wind; variable cloud, local showers; local fog; moderate day temperature; frost locally at night.
16. Orkneys and Shetlands.	Moderate to light northerly wind; cloudy, some showers, bright intervals; colder.
17. N.W. Ireland	As 13.
18. N.E. Ireland 19. S.E. Ireland	Light or moderate southerly wind; mainly fair; local fog night and morning; moderate day temperature.
20. S.W. Ireland	As 13.

GENERAL INFERENCE.

An elongated anticyclone over and to northwards of the British Isles is moving slowly eastwards. A depression on the Atlantic appears to be filling up but is affecting West Ireland and the Hebrides. Over most of the country weather will be quiet with variable cloud and local fog, increasing tonight.

FURTHER OUTLOOK.

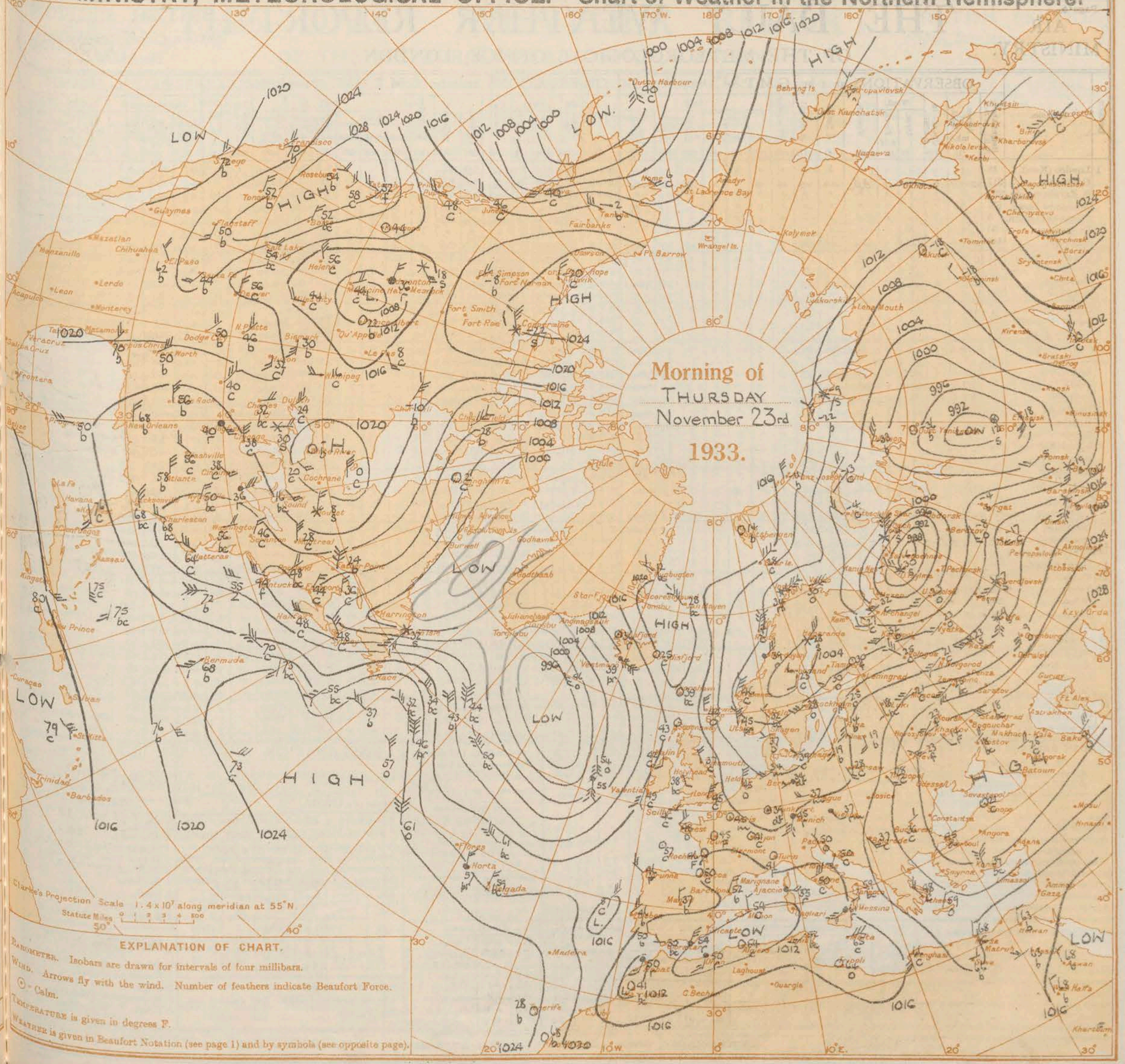
Quiet over England and East and South Scotland with considerable fog.

Forecasts issued at 1035 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, 23rd November 1933.

No. 26299

OBSERVATIONS at 1 hr. G.M.T. 23rd November

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	1017.7	0	W'N	2	d.d.	44	95	4	6	-	-	10	10	450
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1017.4	-2	NW'W	2	df	43	95	3	5	-	-	10	10	450
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1015.6	0	NNW	2	0	45	95	6	5	-	-	10	10	2500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1018.2	-6	N	3	0	46	85	6	5	-	-	10	10	1500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1019.2	0	NNE	2	c	45	85	7	4	-	-	7.8	7.8	2500
	Scilly (St. Mary's)	163	1019.7	0	NNW	1	bc	46	95	7	2	-	-	2.3	2.3	4000
	Guernsey	175	1018.2	-6	-	0	0	47	75	7	5	-	-	10	10	1500
6	Pembroke	142	1019.5	0	NE	1	b	43	95	7	1	-	-	Tr.	Tr.	4000
7	Holyhead	26	1019.5	-2	S'E	2	bc	40	95	5	-	-	6	0	4.6	-
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1016.7	+2	N'W	4	bc	45	95	8	-	2	-	0	4.6	-
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	100	1018.4	-4	W	2	bc	39	95	7	5	-	-	2.3	2.3	1500
11	Inchkeith	190	1018.9	-12	WSW	2	3.	38	95	5	5	-	-	7.8	7.8	1500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts L)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1017.2	0	SW	1	c	45	85	8	8	6	-	4.6	7.8	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1016.3	-4	WNW	2	bc	40	95	8	8	1	-	4.6	4.6	2500
16	Lerwick	54	1013.4	0	NW	3	c	44	85	8	5	-	-	7.8	7.8	1500
17	Blacksod Point	18	1015.9	-4	SSW	3	rr	47	95	7	6	-	-	10	10	450
18	Malin Head	52	1016.7	-10	S	2	c	42	85	9	5	-	-	9+	9+	2500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1016.3	-6	S	3	rr	48	95	8	9	-	-	10	10	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 23rd 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)	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)	1018.1	+6	N	2	c	44	85	5	8	-	6	4.6	7.8	2500	1	*
	Croydon	1017.6	+2	NNE	3	3.	45	85	5	5	2	-	9	9+	1500	1	*
	S. Farnborough	1018.0	+2	NW'W	1	c	43	95	5	5	-	-	9+	9+	1500	1	*
	Boscombe Down	1018.5	+4	N	1	m	41	95	4	5	-	-	10	10	1500	1	*
	Calshot (S'thmtn)	1018.0	+4	NW'N	3	id.	46	95	5	5	7	-	7.8	10	800	1	0
	Dungeness	*	*	W'N	2	f	*	*	2	5	-	*	10	10	800	*	0
	Lympne	1017.1	0	NNW	2	id.	43	95	4	5	-	-	10	10	450	1	*
2	Shoeburyness	1017.1	0	NNW	2	c	44	95	7	5	-	-	10	10	4000	1	*
	Felixstowe	1016.4	+2	NW	2	c/pr	45	85	7	5	-	-	9+	9+	2500	0	1
	Gorleston	1015.8	+4	NNE	3	c	48	85	6	5	-	-	9+	9+	1500	0	2
	Cranwell	1018.4	+4	NW'W	2	c	41	95	6	5	-	-	9+	9+	4000	1	*
3	Birmingham	1019.4	0	WNW	2	bf	36	95	1	-	-	-	0	0	-	1	*
	Upper Heyford	1018.9	+6	E	1	m	42	95	4	5	-	-	10	10	1500	1	*
4	Ross-on-Wye	1019.1	0	N	1	c	40	95	6	5	-	-	9+	9+	4000	1	*
5	Portland Bill	1017.6	-4	N	3	0	45	95	6	5	-	-	10	10	1500	1	3
	Plymouth	1018.7	-2	NW	2	3.	41	85	6	5	-	-	7.8	7.8	4000	1	1
	The Lizard	1018.8	0	NNE	3	bc	43	85	8	8	4	-	4.6	4.6	2500	1	2
	Scilly (St. Mary's)	1018.9	0	E	1	c	46	85	8	5	-	-	9+	9+	4000	0	1
	Guernsey	1018.0	0	-	0	0	47	85	6	5	-	-	10	10	1500	0	2
6	Pembroke	1018.5	-2	NE	1	bc	41	95	7	5	-	-	2.3	2.3	2500	0	1
7	Holyhead	1018.8	-2	SSE	1	bc	38	95	6	1	4	-	2.3	2.3	4000	1	0
	Chester (Sealand)	1019.9	+4	-	0	cf	29	95	2	-	3	-	0	7.8	-	1	*
8	L'pool (Bidston)	1019.7	+4	SW	2	c	41	85	8	5	3	-	2.3	7.8	2500	0	*
	Manchester	1019.3	+2	-	0	f	35	95	0	-	-	-	10	10	<150	1	*
9	Harrogate	1018.9	0	SW	1	c	37	95	7	-	3	-	0	9+	-	1	*
10	Spurn Head	1017.3	0	NNW	3	c	44	95	6	5	7	-	2.3	7.8	2500	0	2
	Catterick	1018.7	+2	W'N	1	c	33	95	8	5	3	-	9	9+	7200	1	*
	Tynemouth	1018.0	0	NW	2	c	37	95	6	4	-	-	7.8	7.8	4000	1	2
11	Inchkeith	1018.0	0	WSW	2	m	40	95	4	5	1	-	4.6	9	1500	0	1
	Leuchars	1018.0	+2	W	1	c	37	85	6	5	7	8	4.6	9+	4000	1	*
12	Renfrew (Abbotts L)	1018.6	0	-	0	of	35	95	3	5	-	-	10	10	1500	1	*
	Eskdalemuir	1019.1	+2	-	0	c	31	95	6	5	-	-	10	10	1500	4	*
13A	Tiree	1016.7	0	S'E	2	c	46	85	8	5	7	-	7.8	10	4000	0	1
13B	Stornoway	1017.5	0	-	0	c/pr	43	95	6	8	2	-	4.6	10	1500	1	0
15	Dalwhinnie	·	0	-	0	c	36	95	8	4	1	-	4.6	10	2500	1	*
	Aberdeen	1017.1	0	WNW	2	b	36	85	6	-	3	4	0	1	-	1	1
	Wick	1016.6	+2	WNW	1	d.d.	45	95	7	8	2	-	4.6	7.8	1500	1	2
16	Lerwick	1013.6	+4	NW	3	c/pr	44	95	7	8	2	-	4.6	7.8	800	1	*
17	Blacksod Point	1015.2	-2	SSW	4	c	47	95	8	8	-	-	10	10	~~450~~ 1000	1	2
18	Malin Head	1016.0	+2	S	1	c	42	75	9	5	7	-	4.6	9+	2500	0	0
	Aldergrove	1018.6	-2	ESE	1	bc	32	95	7	5	7	1	2.3	4.6	4000	4	*
	Donaghadee	1018.5	0	W	1	bc	39	95	7	5	2	-	2.3	4.6	1500	0	0
19	Birr Castle	1017.8	-2	SSE	1	bc	36	95	9	5	-	-	4.6	4.5	2500	1	*
20	Valentia Obsy.†	1016.3	-4	S	4	c	49	85	8	5	-	2	7.8	9	~~7200~~ 2500	1	-
	Roches Point	1017.7	-4	N	1	bc	39	95	8	3	-	-	2.3	2.3	2500	0	2

PAST 24 HOURS.

District.	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 22nd Hrs. (36)
1	London (Kew)	47	44	39	-	1	0.0
	Croydon	45	43	42	Tr	0.2	0.0
	S. Farnborough	45	43	41	Tr	0.6	0.0
	Boscombe Down	44	41	40	Tr	-	0.0
	Calshot (S'thmtn)	46	43	42	Tr	0.1	0.0
	Dungeness	46	42	*	-	-	*
	Lympne	43	42	41	Tr	0.1	0.0
2	Shoeburyness	46	43	42	-	Tr	0.0
	Felixstowe	46	44	43	-	Tr	0.0
	Gorleston	46	44	43	-	-	0.0
	Cranwell	46	41	39	Tr	-	0.0
3	Birmingham	45	36	33	Tr	Tr	0.0
	Upper Heyford	45	41	38	Tr	Tr	*
4	Ross-on-Wye	45	40	33	Tr	-	0.0
5	Portland Bill	47	44	*	-	-	*
	Plymouth	50	41	35	-	-	0.0
	The Lizard	50	42	*	-	-	*
	Scilly (St. Mary's)	51	43	*	-	-	5.5
	Guernsey	49	47	44	-	-	0.0
6	Pembroke	53	40	*	-	Tr	4.1
7	Holyhead	50	37	30	-	-	5.7
	Chester (Sealand)	47	28	25	Tr	-	0.1
8	L'pool (Bidston)	47	40	37	Tr	-	0.1
	Manchester	48	28	25	-	Tr	*
9	Harrogate	46	35	29	Tr	-	0.0
10	Spurn Head	47	43	*	0.1	0.1	0.0
	Catterick	48	30	26	Tr	-	0.0
	Tynemouth	48	37	34	1	-	*
11	Inchkeith	45	38	35	-	-	2.1
	Leuchars	49	32	24	-	-	4.8
12	Renfrew (Abbotts L)	47	30	25	-	Tr	5.9
	Eskdalemuir	46	27	22	-	-	4.7
13A	Tiree	47	43	41	-	-	0.4
13B	Stornoway	49	42	*	Tr	0.6	0.7
15	Dalwhinnie	+4	31	25	-	1	4.2
	Aberdeen	45	32	27	Tr	Tr	5.4
	Wick	47	38	*	-	1	*
16	Lerwick	49	42	*	1	Tr	3.0
17	Blacksod Point	48	45	*	-	1	*
18	Malin Head	45	39	*	-	-	2.1
	Aldergrove	43	30	23	Tr	Tr	4.0
	Donaghadee	49	34	*	-	-	*
19	Birr Castle	42	33	23	-	-	1.5
20	Valentia Obsy.†	50	47	45	Tr	0.1	3.9
	Roches Point	48	38	*	-	Tr	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations, except Greenwich & Hampstead 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	cm.	om.	ofmcm	47	44	39	-	1	0.0	*	*	4
Croydon	217	od.mfm	omfd.m	omdd.fm	45	43	42	Tr	0.2	0.0	*	*	4
Greenwich (Royal Observatory)	149	om	oid.m	od.d.m	47	44	40	Tr	Tr	0.0	86	91	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park)	27	*	*	*	47	45	40	0.2		0.0	79	86	*
‡Regents Pk. (Botanic Gardens)	168	*	*	*	46	43	40	Tr		0.0	84	87	*
Camden Square	110	o	o	*	46	43	40	-	0.3	*	*	85	*
Kensington	80	co	co	*	46	44	39	Tr	0.4	0.0	At 18h. 73	89	*
Hampstead Observatory	450	om	om	omr	44	40	36	-	Tr	0.0	*	100	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 23rd

South Kensington. Max.	Time.	Min.	Time.
0.6	13, 19 4 20h 22nd	<0.3	2-7h 23rd

Kew Observatory. Max.	Time.	Min.	Time.
0.6	10h 22nd	0.1	6h 23rd

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 22nd November. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 23rd November. 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	1018.2	-	0	m	46	1016.7	-	0	m	45	48	45	-	-
Brussels	1016.3	WSW	3	o/d	43	1015.0	WSW	2	df	43	43	41	0.1	0.3
Berlin	1017.2	S'E	3	b	32	1012.7	WSW	1	df	34	41	28	-	Tr
Zurich	1021.0	SSE	1	rf	45	1018.4	SE	1	f	43	46	41	11	1
Rome						1014.1	ENE	3	c	50		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, 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.

† 1 hr. observations are from Valentia W/T station ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 24th November 1933.

No. 26.300

OBSERVATIONS at 13h. G.M.T. 23rd 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)...	1017·8	-8	N'W	3	c	47	75	6	5	-	-	10	10	4000
	Croydon ...	1017·9	-2	N	2	m	48	65	4	5	3	-	4-6	9+	2500
	S. Farnborough	1017·8	-8	N	2	c	48	65	6	5	-	8	9+	9+	4000
	Boscombe Down	1018·2	-8	NNE	2	c	47	65	6	5	5	9	2-3	7-8	4000
	Calshot, S'thmtn	1018·3	-4	N'W	4	c	49	65	7	5	7	-	4-6	9	4000
	Dungeness ...	*	*	N'W	2	c	*	*	6	5	-	*	9	9	1500
	Lympne ...	1016·8	-10	N'W	4	c	46	75	8	5	-	1	7-8	9	4000
2	Shoeburyness	1017·2	-2	NNW	3	c	49	75	7	5	7	-	7-8	9	5700
	Felixstowe ...	1017·0	-6	NW	3	c	49	75	7	8	3	-	4-6	7-8	4000
	Gorleston ...	1016·4	-4	N'W	3	c	49	75	6	8	6	-	7-8	7-8	2500
	Cranwell ...	1018·1	-10	WSW	2	3_0	45	85	5	-	3	-	0	2-3	-
3	Birmingham ...	1018·7	-6	NW	2	m	44	75	4	-	-	9	0	2-3	-
	Upper Heyford	1018·6	-8	NNW	1	3_0	45	75	5	-	3	-	0	7-8	-
4	Ross-on-Wye ...	1018·6	-6	NNW	1	3_0	46	75	6	-	5	-	0	2-3	-
5	Portland Bill...	1018·0	+6	NE	3	bc	49	75	7	4	4	-	2-3	4-6	2500
	Plymouth ...	1018·5	-6	WNW	2	3_0	48	75	5	7	-	9	2-3	2-3	4000
	The Lizard ...	1018·5	+2	NE'N	2	bc	50	75	7	7	4	-	2-3	4-6	2500
	Scilly (St. Mary's)	1018·8	+4	ESE	2	c	51	75	8	5	6	-	4-6	9	4000
	Guernsey ...	1017·5	-6	NE'N	2	o	50	65	6	5	-	-	10	10	2500
6	Pembroke ...	1018·3	-4	NE	1	bc	50	65	7	5	-	-	2-3	2-3	2500
7	Holyhead ...	1018·7	-2	SSW	2	c	49	85	6	4	3	-	2-3	9	4000
	Chester (Sealand)	1019·4	-8	-	0	c	45	85	5	-	7	-	0	9+	-
8	L'pool (Bidston)	1019·3	-2	W	1	c	46	75	7	5	1	-	7-8	9	1500
	Manchester	1019·0	-6	-	0	f-	39	95	2	5	-	-	10	10	<150
9	Harrogate ...	1017·7	-6	SW	3	c	45	85	7	-	2	-	0	9+	-
10	Spurn Head ...	1016·8	-2	WNW	4	c	44	85	6	5	7	1	2-3	7-8	4000
	Catterick ...	1017·4	-6	-	0	c	43	95	7	5	2	-	9	10	7200
	Tynemouth ...	1017·5	-4	WNW	2	c/pr	44	85	6	6	-	-	7-8	7-8	1500
11	Inchkeith ...	1018·1	0	WSW	2	m	42	95	4	5	7	-	4-6	9+	800
	Leuchars ...	1017·3	-6	W	2	bc/p	43	75	7	5	2	-	2-3	2-3	2500
12	Renfrew (Abbotsinch)	1018·0	-6	SW	1	of	42	95	3	5	-	-	10	10	1500
	Eskdalemuir ...	1018·4	-6	-	0	c	37	95	7	5	7	-	1	9+	1500
13A	Tiree ...	1017·7	0	SE'E	3	c/r	46	95	8	5	7	-	4-6	9+	2500
13B	Stornoway ...	1018·6	+4	-	0	c	47	95	8	5	7	-	7-8	9+	1500
15	Dalwhinnie ...	*	0	N	1	bc	42	85	8	4	1	3	2-3	4-6	2500
	Aberdeen ...	1017·2	0	NW'W	3	c	46	85	7	5	-	-	7-8	7-8	2500
	Wick ...	1017·7	+2	NNW	2	c	45	85	8	8	2	-	7-8	9	1500
16	Lerwick ...	1015·6	+6	N	4	c/pr	45	85	8	8	2	-	4-6	7-8	1500
17	Blacksod Point	1016·2	+4	S	3	c	49	85	8	5	-	-	10	10	800
18	Malin Head ...	1016·7	+2	S	1	c	46	85	8	5	-	-	9+	9+	2500
	Aldergrove ...	1018·4	-2	S	2	3_0	42	75	7	5	9	-	2-3	9+	5700
	Donaghadee ...	1018·3	-4	W	1	c	44	75	6	5	-	-	7-8	7-8	1500
19	Birr Castle ...	1017·3	-4	S	2	c	48	85	8	5	-	-	9	9	4000
20	Valentia Obsy.	1016·4	-6	SE	3	c	51	75	9	5	3	-	4-6	9+	2500
	Roches Point...	1017·6	-2	SW	3	bc	51	75	8	3	6	-	2-3	4-6	2500

OBSERVATIONS at 18h. G.M.T. 23rd November — 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)	Weather 7h.–13h. 23rd (37)	Weather 13h.–18h. 23rd (38)	Weather 18h. 23rd to 1h. 24th (39)	Weather 1h.–7h. 24th (40)
London (Kew)	1017·7	-2	NW	2	m	44	85	4	-	3	-	0	7-8	-	1	*	cm_0	cm	cr_0cm_0	$bccm_0$
Croydon	1017·3	-2	NW	2	m	42	85	4	-	3	-	0	4-6	-	1	*	cm_0r_0mfm	cbccm	$bcmfcmr_0r_0$	$om_0r_0cm_0$
S. Farnborough	1017·4	0	N'W	2	bc	38	95	6	-	5	-	0	4-6	-	1	*	cp_0cbcc	bcm_0x	bcxcm	cmcf
Boscombe Down	1017·7	-2	N'E	1	m	43	85	4	-	3	-	0	9+	-	1	*	$cm3_0$	$c3_0cm$	cm	cmpm
Calshot, S'thmtn	1017·6	-2	N'W	3	3_0	45	75	6	5	3	-	2-3	9	4000	0	1	cm_0c	cm_0	$bcwm_0$	$bcbm_0w$
Dungeness	*	*	N	1	c	*	*	7	5	-	*	7-8	7-8	1500	*	0	o	o	*	f
Lympne	1016·7	+2	N'W	3	m	41	95	4	5	-	1	2-3	2-3	5700	1	*	od_0m_0c	cbcm	$bccmr_0$	cr_0bcmcd_0
Shoeburyness	1016·7	-2	NNW	1	b	41	95	6	-	4	-	0	1	-	1	*	c	$cbcm_0$	bcm_0	bcm_0
Felixstowe	1016·7	0	NW	2	bc	43	95	7	-	-	1	0	2-3	-	0	0	c	cbcb	b	bcr_0d_0
Gorleston	1015·4	-4	W'N	2	c	45	95	6	5	-	-	9	9	2500	0	2	c	$c3_0$	coirbc	bcircq
Cranwell	1017·1	0	NW'W	3	f	43	85	3	5	3	-	4-6	9+	7200	1	*	cm_0	cmf	cfr_0b	bm_0cpc_0
Birmingham	1017·8	-4	NW	2	c	44	75	5	-	7	-	0	9+	-	1	*	Fbm	bmc	cprbc	bccm
Upper Heyford	1018·0	0	NW	1	3_0	41	85	5	-	7	-	0	9+	-	1	*	cmm_0	$bccm m_0$	cbm_0	bFec
Ross-on-Wye	1017·8	-6	-	0	cf	42	85	2	-	7	-	0	10	-	1	*	cm_0b3_0	bcc3m	cfcm	bc
Portland Bill	1017·0	-6	NE	2	c	45	85	7	5	4	-	4-6	7-8	2500	1	3	$o3_0c$	bc	bc	bc
Plymouth	1018·2	+4	NE	1	3_0	44	85	5	4	-	-	Tr	Tr	4000	1	0	cm_0mbc	bcm_0cb	bm_0bc	$bccm_0w$
The Lizard	1018·2	+4	NNE	2	bc	45	85	8	7	-	-	2-3	2-3	2500	1	2	bc	bc	bc	bcc
Scilly (St. Mary's)	1018·3	+10	E	2	c	45	85	8	8	6	-	4-6	7-8	4000	0	1	c	c	cbc	bcb
Guernsey	1017·0	+6	N'E	3	o	49	65	8	5	-	-	10	10	2500	0	3	o	o	oc	c
Pembroke	1018·0	-2	NE	1	c	45	85	7	5	7	1	4-6	7-8	4000	1	1	bcb	bbcwc	cbcwb	bbccbc
Holyhead	1018·0	-2	WSW	1	c	48	85	5	5	3	-	4-6	9+	1500	1	0	$bcxm_0$	cm_0	cbm_0w	$bbcwm_0$
Chester (Sealand)	1018·5	+2	-	0	m	43	85	4	5	3	-	4-6	10	4000	1	*	bcfmc	cm	cm	cbm_0
L'pool (Bidston)	1018·4	-2	W'S	2	c	45	85	7	5	-	-	9+	9+	1500	0		bcmc	c	c	cbc
Manchester	1018·1	+2	-	0	cf	40	95	3	5	-	-	9	9	2500	1	*	oFfe	$ocfr_0$	cr_0fe	cbfex
Harrogate	1017·3	0	WSW	1	c	42	85	7	-	3	-	0	9+	-	1	*	c	c	c	c
Spurn Head	1015·9	0	NW	4	3_0	44	95	5	5	2	-	2-3	10	1500	0	3	bc	c3	cid_0	cir
Catterick	1017·1	-2	WNW	2	c	45	75	7	5	-	-	9	9	5700	1	*	cm_0c	c	cbcbw	bwbcc
Tynemouth	1016·9	0	W	2	c	44	85	6	5	-	-	7-8	7-8	1500	1	1	cp_0	c	ocp_0	cpq
Inchkeith	1018·8	+4	W	1	3_0	42	95	5	5	-	-	9+	9+	1500	0	1	cir33	c3	c33bc	bc
Leuchars	1019·7	+20	NW	1	bc	42	85	8	5	-	-	4-6	4-6	4000	1	*	ccr_0m_0bc	bccbc	bcbxbc	$bccd_0c$
Renfrew (Abbotsinch)	1018·2	+2	-	0	cf	38	95	3	5	4	-	9+	9+	1500	1	*	$offr_0$	ffr_0mff	ofFb	oFF
Eskdalemuir	1018·3	+2	NW	1	c	38	95	8	5	3	-	4-6	9	2500	1	*	cm_0xc	o	cbx	bxbc
Tiree	1018·2	+8	-	0	c	44	95	7	5	3	-	1	9	2500	1	1	ccr_0	ccr_0	cb	bx
Stornoway	1019·4	+8	ENE	3	c	46	95	8	8	7	-	7-8	9+	1500	1	1	ccd_0	c	cbcb	bbc,c
Dalwhinnie	1019·9	+4	N	1	c	38	95	7	4	4	-	7-8	10	1500	1	*	cr	bc	*	c
Aberdeen	1018·0	+8	NW	3	c	43	85	7	5	-	-	9	9	2500	1	1	$b3_0bc$	bcc	cir_0c	c
Wick	1019·0	+4	NNW	4	c	46	85	8	8	2	-	7-8	9	1500	1	2	cdcdc	ccd_0c	c	c
Lerwick	1018·2	+14	N	4	c	45	75	8	5	1	-	9	9+	1500	0	*	cpr_0	cq	c	c
Blacksod Point	1016·3	+2	S	2	c	50	85 75	8	-	7	-	0	10	-	0	2	c	c	c	prc
Malin Head	1017·9	+10	-	0	c	42	95	6	8	-	-	10	10	1500	1	0	c	cr_0r	cp_0d	bcc
Aldergrove	1018·4	0	SSE	1	r_0r_0	41	95	6	-	2	-	0	10	-	1	*	$bcxc3_0$	cm_0r_0	$cr_0r_0m_0$	cb
Donaghadee	1017·8	0	W	1	o	42	95	6	5	-	-	10	10	1500	0	0	$bccm_0$	com_0	cm	c
Birr Castle	1017·3	0	SE	1	c	46	85	8	5	-	-	9+	9+	2500	1	*	bcc	c	c	cbx
Valentia Obsy.	1016·5	+6	ESE	2	c	50	85	9	5	-	-	9+	9+	4000	0	2	c	c	bcc	c
Roches Point	1018·0	+6	SW	3	c	48	95	8	3	-	-	7-8	7-8	1500	0	2	bc	bcc	cbcw	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/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. gale.

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 3).

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.

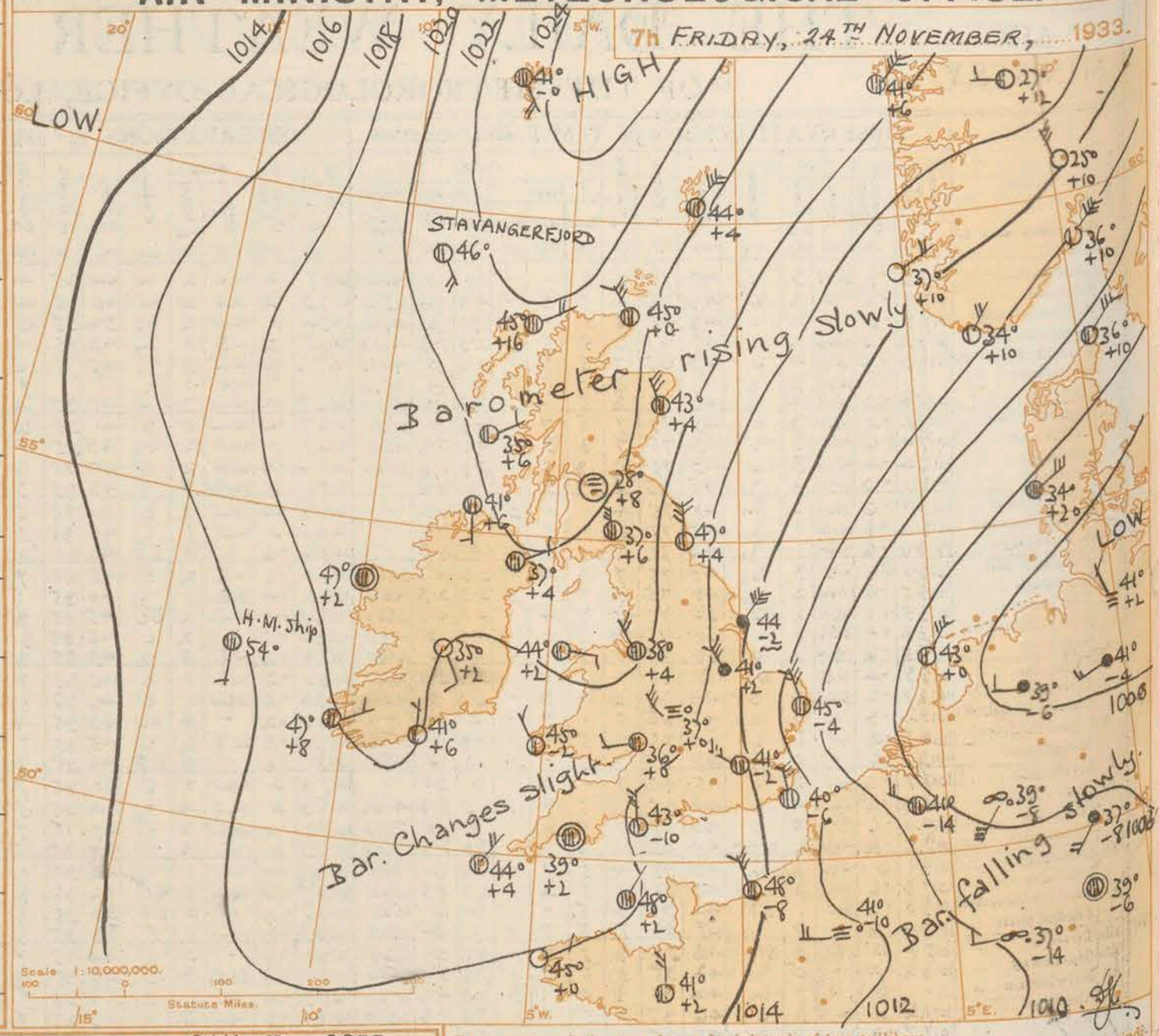
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for 23rd November 1933.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	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	cbc	42	48	Trace	-	0·2
	Bournemouth	om	bkm	43	49	0·3	-	1·5
	Ventnor ...	oro3	cobc	43	50	0·5	-	0·8
	Southsea ...	cc	cbc	44	50	-	-	0·2
	Bognor Regis	oc	cbc	44	48	0·3	-	0·1
	Littlehampton	c	cbc	44	48	Trace	-	0·1
	Worthing ...	o	oc	44	48	-	-	0·1
	Brighton ...	c	c	44	48	Trace	-	0·0
	Eastbourne†	o	oc	44	48	Trace	-	0·0
	Hastings† ...	c	cbco	43	48	0·3	-	0·2
	Folkestone ...	o	ocbc	43	49	-	-	1·3
	Dover... ...	oc	cbcm	43	50	Trace	-	1·2
	Deal	oco	oco	43	48	-	-	1·0
	Ramsgate ...	cm	cbcm	44	48	-	-	0·5
	Margate ...	c	bc	44	49	-	-	1·0
2	Southend ...	c	cm	43	49	0·2	-	0·9
	Maldon ...	c	cbcc	44	48	-	-	1·1
	Clacton-on-Sea	cbcm	bcm	42	48	-	-	0·2
	Dovercourt ...	bc	bc	43	49	-	-	0·8
	Lowestoft ...	c	cbc	43	49	-	-	0·7
	Skegness ...	mobc	bcmo	40	48	0·3	-	1·5
	Mablethorpe	cmo	bcmo	39	48	1	-	1·8
	Cleethorpes ...	cf	bcw	40	47	0·2	-	0·7
3	Leamington S.	omc	om	39	44	-	Trace	0·0
4	Cheltenham†	cmoc	bcfo	39	45	Trace	-	2·8
5	Bath	mc	cbcb	43	49	-	-	3·4
	Weymouth ...	mc	bm	43	50	-	-	2·3
	Jersey ...	cz	cz	48	50	-	-	0·0
	Torquay ...	czbc	bmo	42	49	-	-	2·9
	Penzance ...	wcmb	bb	38	53	-	-	4·4
	St. Ives ...	bc	bc	42	52	-	-	4·9
	Bude	xbcm	bc	30	51	-	-	5·7
	Ilfracombe ...	cbc	bbc	39	50	-	-	4·3
6	Aberystwyth	xzbbc	bcc	35	51	-	-	5·4
7	Llandudno ...	xbbc	cwm	33	46	-	-	2·2
	Colwyn Bay...	bcbcc	cco	33	50	-	-	2·4
	Rhyl	xbbcc	c	32	44	-	-	1·6
8	Wallasey ...	fobc	bc	37	46	-	-	0·2
	Southport‖ ...	cfco	oco	32	44	-	-	0·0
	Blackpool ...	ofc	co	31	46	-	-	0·0
	Morecambe ...	xmcc	c	28	42	Trace	Trace	0·0
9	Ilkley... ...	o	o	32	44	-	-	0·1
10	Berwick-on-T.	o	o	33	46	-	-	0·0
11	Dunbar ...	bc	bc	34	45	-	-	0·7
12	Troon... ...	bccf	mcfcf	36	50	-	-	0·1
	Douglas ...	c	c	38	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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— ◎ TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :— ○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 5/10 to 7/10 clouded. ◑ Sky 1/10 to 4/10 clouded. ◑ Overcast sky. ● Rain falling. ✱ Snow. ✱ Sleet. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. K Thunderstorm. ∞ Slight haze.
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 Nov.1933.
1. S.E. England 2. E. England... 3. E. Midlands	Moderate or fresh northerly wind, veering slightly; mainly cloudy, some showers, especially near East Coast; sleet locally later; becoming somewhat colder.
4. W. Midlands 5. S.W. England	Light or moderate north to northeast wind; mainly cloudy, bright intervals locally; local mist; moderate to rather low temperature.
6. South Wales 7. North Wales	Light variable northeast wind; fair; moderate day temperature.
8. N.W. England	As 4.
9. N Midlands 10. N.E England	As 1 - 3.
11. S.E. Scotland	Moderate north to northeast wind; mainly cloudy, local showers; moderate temperature.
12. S.W. Scotland & Isle of Man	Light north to northeast wind; mainly cloudy; local fog, especially at first; rather low to moderate temperature.
13. A. W Scotld B. N.W. Scotland	As 5 - 7.
14. Mid-Scotland	As 4.
15. N.E. Scotland 16. Orkneys and Shetlands.	As 11.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light easterly or variable wind; fair; moderate day temperature; frost and perhaps fog locally inland night and morning.

GENERAL INFERENCE.

A depression over the Baltic and an anticyclone from the Faeroes to Northern Scandinavia are both moving Southeast. A ridge of high pressure will maintain fair weather in the West, but the onset of a cold northeast wind will cause showers in Eastern Districts especially in East Anglia and Eastern Kent.

FURTHER OUTLOOK.

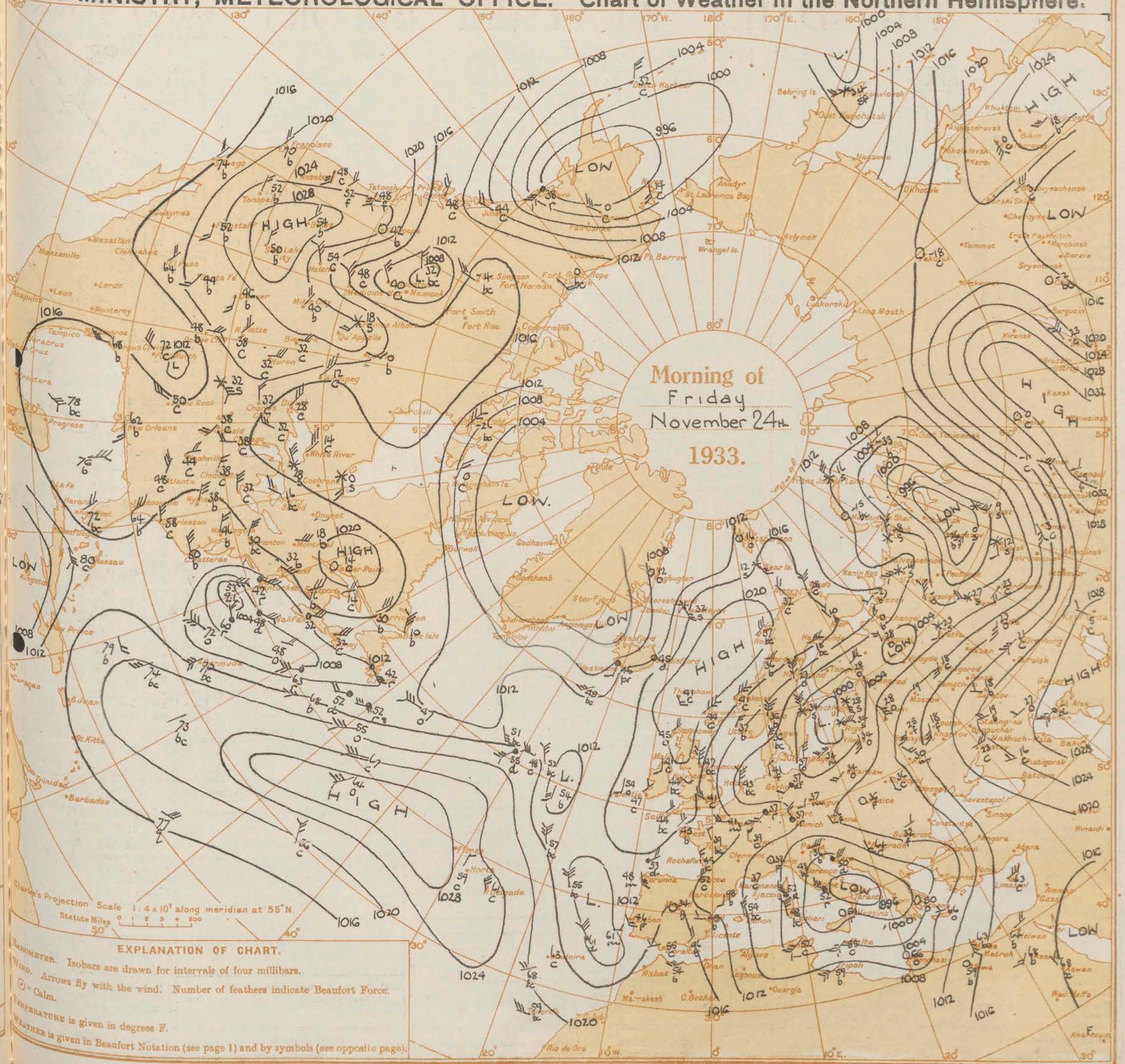
Cold northeast winds over most of England; local sleet or snow showers in East and Southeast England, especially near the East Coast. Fair in Northwest Districts.

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

Friday, 24th November 1933

No. 26.300

OBSERVATIONS at 1 hr. G.M.T. 24th November

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	1015.9	-12	W'S	2	r.r.	41	85	4	5	-	-	10	10	2500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1015·1	-12	NNW	4	ir.	41	85	4	5	-	-	7·8	7·8	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1013·2	-10	W	3	bc	43	95	6	5	-	-	4·6	4·6	1500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1017·2	-4	NE	3	bc	47	85	7	4	-	-	4·6	4·6	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1017.9	-4	NNE	2	bc	45	75	8	7	-	-	2·3	2·3	2500
	Scilly (St. Mary's)	163	1018·1	-2	ENE	2	bc	44	75	8	5	-	-	2·3	2·3	4000
	Guernsey ...	175	1016·8	-4	NNE	2	c	48	75	7	5	-	-	7·8	7·8	2500
6	Pembroke ...	142	1019.2	+2	NE	1	bc	43	85	7	1	-	-	2·3	2·3	2500
7	Holyhead ...	26	1018.1	0	-	0	b	44	95	5	-	-	-	0	0	-
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1014.1	-4	NW	5	id.	44	95	6	5	2	-	4·6	7·8	1500
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	100	1016·8	0	NNW	2	c/pr.	44	85	6	9	-	-	7·8	7·8	1500
11	Inchkeith ...	190	1020·1	0	NW	1	bc	42	85	8	5	-	-	4·6	4·6	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts I.)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1020.6	+4	ESE	1	bc	44	85	7	5	-	-	2·3	2·3	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1019.8	0	NNW	4	c	44	85	8	8	2	-	7·8	9	1500
16	Lerwick ...	54	1019·1	+4	NE	5	c	43	65	8	5	-	-	7·8	7·8	1500
17	Blacksod Point	18	1018·2	+6	-	0	c	47	85	7	-	1	-	0	10	-
18	Malin Head ...	52	1018.7	+6	S	1	bc	42	95	7	5	-	-	4·6	4·6	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1016.4	+6	SE'S	2	bc	49	95	8	4	-	-	4·6	4·6	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 24th November

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)	1015.0	0	NW'N	3	c	41	95	5	5	-	-	7·8	7·8	2500	1	*
Croydon	1014.7	-2	WNW	3	c/f.	41	85	4	5	-	-	9	9	1500	1	*
S. Farnborough	1015.3	0	NW	3	cf	37	95	3	5	-	-	9+	9+	2500	1	*
Boscombe Down	1016.3	+2	NNW	1	m	36	95	4	5	-	-	Tr	Tr	4000	1	*
Calshot	1015.5	0	NW'W	3	b	40	95	6	-	4	-	0	1	-	0	1
Dungeness	*	*	NW	1	m	*	*	4	5	-	*	4·6	4·6	1500	*	0
Lympne	1013.1	-6	NW'N	4	c/d.	40	95	5	5	-	-	9+	9+	800	1	*
Shoeburyness	1013.0	-4	NW	4	bc	~~40~~ 39	95	6	5	3	-	2·3	4·6	1500	1	*
Felixstowe	1012.2	-8	NW	3	c/d.	43	95	6	5	3	-	7·8	7·8	800	0	2
Gorleston	1010.9	-4	NNW	5	c	45	85	7	9	-	-	7·8	7·8	1500	1	2
Cranwell	1015.4	+2	NW	4	pr	41	95	6	6	3	-	7·8	9	800	1	*
Birmingham	1017.1	0	NW	3	m	37	95	4	5	-	-	9+	9+	2500	1	*
Upper Heyford	1016.4	-2	NE	2	c/F	36	95	4	5	-	-	9+	9+	1500	1	*
Ross-on-Wye	1017.2	0	WNW	1	c	36	95	6	5	7	1	1	7·8	4000	1	*
Portland Bill	1015.8	-10	N	3	bc	43	95	7	4	-	-	2·3	2·3	2500	0	2
Plymouth	1017.4	+2	-	0	c	39	95	7	5	3	-	2·3	7·8	1500	1	1
The Lizard	1017.6	0	NNE	2	c	44	75	8	4	7	-	4·6	7·8	4000	0	2
Scilly (St. Mary's)	1017.7	+4	NE	2	bc	44	75	8	4	-	-	2·3	2·3	4000	0	1
Guernsey	1016.2	+2	NNE	1	c	48	75	7	8	-	-	7·8	7·8	2500	0	3
Pembroke	1017.4	-2	NW	1	bc	45	85	7	7	7	-	2·3	4·6	4000	0	1
Holyhead	1018.2	+2	ESE	1	bc	44	95	5	5	-	-	4·6	4·6	4000	1	0
Chester (Sealand)	1018.5	+4	NW'N	2	c	38	85	5	5	-	-	9	9	4000	1	*
L'pool (Bidston)	1018.7	+4	NNE	2	bc	40	85	8	5	-	-	4·6	4·6	2500	0	*
Manchester	1017.4	+2	NNE	3	bf	32	95	3	5	-	-	Tr	Tr	2500	1	*
Harrogate	1017.1	0	N	1	c	42	85	7	6	8	-	4·6	7·8	2500	1	*
Spurn Head	1013.5	-2	NE'N	6	ir	44	95	8	3	2	-	7·8	10	4000	1	4
Catterick	1017.6	+8	NW'N	3	c	42	85	7	4	6	-	2·3	7·8	2500	1	*
Tynemouth	1016.5	+4	N	5	bdpr	47	65	8	9	-	-	4·6	4·6	1500	1	2
Inchkeith	1020.1	+4	NW	2	bc	41	75	8	5	-	-	2·3	2·3	2500	0	1
Leuchars	1019.3	+6	WNW	3	c	40	75	8	5	-	-	7·8	7·8	4000	1	*
Renfrew (Abbotts I.)	1021.1	+8	-	0	f	28	95	2	·	·		10	10	<150	1	*
Eskdalemuir	1019.3	+6	N	3	bc	37	85	7	5	-	-	4·6	4·6	2500	1	
Tiree	1020.2	+6	E'N	2	bc	35	95	9	5	3	-	1	2·3	4000	0	2
Stornoway	1021.4	+16	ENE	2	c	45	65	8	5	-	-	10	10	2500	1	2
Dalwhinnie	·	+2	-	0	c	36	95	8	4	4	-	7·8	10	2500	0	*
Aberdeen	1019.3	+4	NW'N	3	c	43	85	7	5	-	-	9+	9+	2500	1	1
Wick	1020.5	0	NNW	4	c	45	85	8	8	2	-	7·8	9	1500	1	2
Lerwick	1020.2	+4	NE'N	5	c	44	75	8	8	-	-	9	9	1500	0	*
Blacksod Point	1018.8	+2	-	0	c	47	95	8	5	4	-	4·6	7·8	800	1	3
Malin Head	1019.6	+6	S	1	c	41	95	7	8	-	-	9+	9+	1500	1	0
Aldergrove	1019.9	+4	ENE	1	c	37	95	5	5	-	-	10	10	2500	1	*
Donaghadee	1019.9	+12	WSW	2	c	47	75	7	5	-	-	7·8	7·8	1500	0	1
Birr Castle	1017.9	+2	SE	1	b	35	95	8	-	-	-	0	0	-	1	*
Valentia Obsy.†	1017.8	+8	ENE	1	c	47	85	8	5	7	-	7·8	9	1500	1	-
Roches Point	1018.3	+6	N	1	bc	41	95	8	3	-	-	2·3	2·3	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 23rd Hrs. (36)
London (Kew)	48	40	32	-	0·1	0·1
Croydon	49	40	35	Tr	0·3	0·1
S. Farnborough	48	35	28	Tr	Tr	0·5
Boscombe Down	48	35	31	-	-	2·2
Calshot	50	39	35	Tr	-	0·0
Dungeness	49	37	*	-	-	*
Lympne	47	37	35	Tr	Tr	1·4
Shoeburyness	49	(40) 39	32	-	-	0·5
Felixstowe	49	41	39	-	0·3	0·5
Gorleston	49	42	39	-	0·2	0·9
Cranwell	45	40	37	-	0·4	0·5
Birmingham	46	35	31	-	0·1	0·1
Upper Heyford	47	33	30	-	-	*
Ross-on-Wye	48	36	26	-	-	4·1
Portland Bill	49	42	*	-	-	*
Plymouth	50	38	32	-	-	3·2
The Lizard	51	42	*	-	-	*
Scilly (St. Mary's)	51	43	*	-	-	1·8
Guernsey	50	46	38	-	-	0·0
Pembroke	50	42	*	Tr	Tr	6·3
Holyhead	51	40	32	-	Tr	3·4
Chester (Sealand)	45	37	30	-	-	1·3
L'pool (Bidston)	46	39	35	-	-	1·0
Manchester	40	30	26	Tr	Tr	*
Harrogate	45	40	33	-	-	0·6
Spurn Head	45	43	*	-	2	0·8
Catterick	45	40	37	-	-	0·2
Tynemouth	44	43	38	0·1	2	*
Inchkeith	43	40	30	0·5	-	1·1
Leuchars	46	34	25	0·3	0·1	1·5
Renfrew (Abbotts I.)	43	27	28	0·1	0·2	0·0
Eskdalemuir	39	32	27	-	·	0·0
Tiree	47	34	19	0·5	·	0·0
Stornoway	49	41	*	0·5	-	0·0
Dalwhinnie	43	35	32	2	-	1·9
Aberdeen	46	40	38	-	0·1	2·1
Wick	46	44	*	0·3	-	*
Lerwick	46	43	*	0·2	-	1·6
Blacksod Point	50	45	*	-	0·3	*
Malin Head	47	37	*	2	Tr	0·0
Aldergrove	42	32	26	Tr	0·1	0·7
Donaghadee	44	40	*	-	-	*
Birr Castle	49	34	24	-	-	0·3
Valentia Obsy.†	52	45	44	-	-	0·0
Roches Point	52	40	*	-	Tr	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations except Greenwich & Hampstead 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.	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	cm.	cm	cr,cbccm	48	40	32	-	0·1	0·1	*	*	5
Croydon	217	cm,cmfm	cbccm	bcmfs,cfcm	49	40	35	Tr	0·3	0·1	*	*	4
Greenwich (Royal Observatory)	149	cm	cm.	cd.m.	49	42	33	~~Tr~~	~~0·3~~	0·1	83	92	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park)	27	*	*	*	49	42	37	-		0·0	72	84	*
‡Regents Pk. (Botanic Gardens)	168	*	*	*	48	41	33	-		0·1	77	87	*
Camden Square	110	c	c	*	48	42	36	-	Tr	*	*	88	*
Kensington	80	co	cocbc	*	48	42	35	-	0·4	0·0	At 18h. 86	89	*
Hampstead Observatory	450	om	bc	cmp	46	38	31	Tr	Tr	0·2	*	97	*

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

South Kensington. Max.	Time.	Min.	Time.
1·0	19-21h 23rd	<0·3	3-6h 24th

Kew Observatory. Max.	Time.	Min.	Time.
0·8	20h 23rd	0·2	10h 23rd

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 23rd November Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 24th November 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 ...	1015·4	NW	1	f	45	1012·1	W	2	m	41	46	39	Tr	-
Brussels ...	1014·6	WNW	2	f	41	1008·4	WNW	2	c/r	41		37	0·5	3
Berlin ...	1008·7	WNW	3	id.	37	1005·2	SW	1	dF	37	37	34	7	1
Zurich ...	1014·7	NNW	1	bc	43	1008·7	ENE	1	o/r	41	52	39	-	1
Rome ...	1008·1	ESE	4	c	55						59		-	

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 ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9 h.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 25th November 1933.

No. 26.301

OBSERVATIONS at 13h. G.M.T. 24th 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) ...	1013·7	-12	N	4	cr$_0$	46	75	6	5	-	-	7-8	7-8	2500
	Croydon ...	1013·3	-14	NNW	4	3$_0$	45	75	5	7	-	-	7-8	7-8	2500
	S. Farnborough	1013·9	-14	N'W	2	c	45	75	6	8	-	-	9+	9+	1500
	Boscombe Down	1014·8	-12	N	3	c	46	75	5	8	-	-	9+	9+	1500
	Calshot, S'thmtn	1014·4	-12	NNW	4	c	47	75	6	8	-	-	9+	9+	4000
	Dungeness ...	*	*	NNW	3	bc	*	*	7	4	-	*	4-6	4-6	2500
	Lympne ...	1011·6	-14	N'W	5	bc	46	75	8	1	-	-	2-3	2-3	1500
2	Shoeburyness	1011·9	-10	NNW	4	bc	47	85	8	5	3	-	4-6	4-6	1500
	Felixstowe ...	1011·8	-4	N	4	c	47	65	8	8	-	-	7-8	7-8	1500
	Gorleston ...	1011·2	-4	NNW	5	cjp	47	85	7	9	-	-	7-8	7-8	1500
	Cranwell ...	1015·0	-6	NNW	3	pr$_0$	44	85	7	8	3	-	7-8	9+	2500
3	Birmingham ...	1016·3	-6	NNW	2	m	43	75	4	5	-	-	10	10	1500
	Upper Heyford	1015·3	-10	N	4	3$_0$	44	75	5	5	2	-	7-8	9+	1500
4	Ross-on-Wye ...	1016·2	-6	N	3	bc	46	75	6	1	4	1	1	4-6	4000
5	Portland Bill...	1015·1	-10	N	3	c	49	65	8	4	-	1	4-6	7-8	2500
	Plymouth ...	1016·3	-12	NNE	4	bc	50	65	8	1	-	1	4-6	4-6	2500
	The Lizard ...	1017·0	-4	N	3	bc	51	65	8	8 (7)	4	-	2-3	2-3	4000
	Scilly (St. Mary's)	1018·0	-2	N'E	3	bc	51	85	8	1	-	-	2-3	2-3	4000
	Guernsey ...	1015·1	-10	NE'N	2	bc	49	55	8	8	-	-	4-6	4-6	2500
6	Pembroke ...	1017·2	-4	NE	1	bc	50	75	7	7	7	1	2-3	4-6	5700
7	Holyhead ...	1018·3	-6	N'E	4	bc	48	65	8	4	-	1	4-6	4-6	2500
	Chester (Sealand)	1018·3	-2	N'W	2	3$_0$	44	75	5	5	3	1	4-6	7-8	4000
8	L'pool (Bidston)	1018·6	0	N	3	bc	44	75	7	5	-	5	2-3	4-6	2500
	Manchester	1017·5	-2	N	4	cr$_0$	43	85	5	6	-	-	10	10	2500
9	Harrogate ...	1016·9	0	N	2	bc/pr	42	85	7	6	-	9	2-3	2-3	2500
10	Spurn Head ...	1013·5	0	NNE	6	c/pr	47	85	7	3	7	-	4-6	7-8	2500
	Catterick ...	1016·9	-6	NNW	3	pr$_0$	44	85	7	9	7	-	7-8	9+	1500
	Tynemouth ...	1016·6	0	N	5	bc/pr	45	85	8	9	-	-	4-6	4-6	1500
11	Inchkeith ...	1020·3	0	NNW	2	c	43	75	8	5	3	2	4-6	9	2500
	Leuchars ...	1019·8	-2	NW	2	pr$_0$	43	75	8	7	-	8	9	9	2500
12	Renfrew (Abbotts I.)	1020·8	-6	-	0	cF	31	95	1	5	-	-	9	9	4000
	Eskdalemuir ...	1018·7	-6	N'E	4	bc	41	75	7	4	-	2	Tr	4-6	4000
13A	Tiree ...	1021·0	-2	ENE	2	c	44	75	9	5	-	-	7-8	7-8	4000
13B	Stornoway ...	1021·7	0	E	1	c	46	65	9	8	7	-	7-8	9+	2500
15	Dalwhinnie ...	1021·9	0	E	2	bc	38	95	7	4	2	-	4-6	4-6	1500
	Aberdeen ...	1019·7	-2	NNW	4	c	44	75	8	5	-	-	10	10	2500
	Wick ...	1021·0	0	N	4	c	44	95	8	8	2	-	7-8	9	2500
16	Lerwick ...	1021·1	0	NE'N	4	c	45	65	8	5	3	-	7-8	9+	1500
17	Blacksod Point	1019·9	+6	-	0	c	48	95	8	5	-	-	9	9	1500
18	Malin Head ...	1019·8	0	S	2	c	47	95	7	8	-	-	9	9	1500
	Aldergrove ...	1020·5	-2	NNW	1	3$_0$	46	75	6	5	-	1	9+	9+	2500
	Donaghadee ...	1019·8	0	ENE	2	bc	48	65	8	8	4	-	2-3	4-6	2500
19	Birr Castle ...	1020·1	+6	WNW	1	c	37	95	6	5	-	-	9	9	1500
20	Valentia Obsy.	1019·0	0	-	0	b	53	75	8	7	-	1	1	1	2500
	Roches Point...	1019·2	+4	N	2	bc	46	95	6	5	-	-	4-6	4-6	1500

OBSERVATIONS at 18h. G.M.T. 24th November

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)	1013·5	+2	N	4	c	44	75	6	~~5~~	3	-	~~7-8~~ 0	7-8	~~4000~~	1	*
Croydon	1013·0	0	N'W	4	c/r	43	85	6	5	-	-	10	10	1500	1	*
S. Farnborough	1013·6	0	N	3	bc	41	85	6	5	-	-	4-6	4-6	1500	1	*
Boscombe Down	1014·3	0	N'W	4	m	42	85	4	5	-	-	10	10	800	1	*
Calshot, S'thmtn	1013·9	0	NNW	4	bc/r	45	75	6	5	3	-	2-3	4-6	2500	0	2
Dungeness	*	*	NW	2	c	*	*	6	4	-	*	9	9	1500	*	2
Lympne	1011·4	+2	NNW	4	c	41	85	7	5	-	-	9+	9+	~~2500~~ 1500	1	*
Shoeburyness	1011·6	-2	NNW	3	bc	41	85	8	5	3	-	2-3	2-3	4000	1	*
Felixstowe	1011·5	+4	N	3	bc	42	85	7	5	-	-	4-6	4-6	2500	0	1
Gorleston	1011·3	+2	NNE	5	ph(r)	45	85	7	9	-	-	4-6	4-6	2500	1	4
Cranwell	1015·1	+4	NW'N	3	bc	40	95	7	-	4	-	0	2-3	-	1	
Birmingham	1016·6	-2	NNW	3	c/pr	41	85	5	6	3	-	4-6	9	1500	1	*
Upper Heyford	1015·1	+2	N	3	c	41	85	6	5	-	-	9	9	1500	1	*
Ross-on-Wye	1015·9	-4	N	3	3$_0$	43	75	5	5	-	-	10	10	4000	1	*
Portland Bill	1014·4	-4	N	3	c	46	85	7	4	-	-	10	10	2500	0	2
Plymouth	1016·0	+2	NNW	3	3$_0$	45	75	5	5	-	-	9+	9+	4000	1	1
The Lizard	1016·7	0	N	3	c	51 (47)	85	8	4	7	-	4-6	7-8	2500	1	2
Scilly (St. Mary's)	1017·3	-2	N'E	4	c	48	85	8	2	-	2	4-6	7-8	4000	0	2
Guernsey	1014·3	-4	NNE	3	c	48	65	7	8	-	-	10	10	2500	0	3
Pembroke	1017·0	0	NE'N	1	c	45	85	7	8	8	-	7-8	9	2500	0	1
Holyhead	1018·2	0	NNE	5	c	47	75	8	4	-	-	9+	9+	2500	1	2
Chester (Sealand)	1018·1	+2	N'W	3	3$_0$	43	75	5	5	-	-	9+	9+	4000	1	*
L'pool (Bidston)	1018·1	0	N	3	o	43	75	7	5	-	-	10	10	2500	0	
Manchester	1017·2	+2	NNW	3	cr$_0$	42	85	4	6	-	-	10	10	2500	1	*
Harrogate	1016·5	0	N	2	c	41	85	7	6	-	-	9+	9+	2500	1	*
Spurn Head	1013·6	0	N'E	4	c/pr	43	85	7	3	7	-	4-6	7-8	2500	1	3
Catterick	1017·1	+4	NW	3	c/pr	42	85	7	9	-	-	9	9	2500	1	*
Tynemouth	1016·4	0	NNE	5	s	47	75	8	6	-	-	10	10	1500	1	4
Inchkeith	1020·6	+2	NNW	2	c	43	75	8	5	2	-	4-6	10	2500	1	1
Leuchars	1019·9	+4	NNW	1	c	43	75	8	5	-	-	9+	9+	1500	1	*
Renfrew (Abbotts I.)	1020·5	0	-	0	cf	35	95	3	5	-	-	9+	9+	4000	1	*
Eskdalemuir	1019·0	+2	N'E	4	c	40	75	7	5	-	-	9	9	1500	1	*
Tiree	1021·2	0	E'N	1	bc	35	95	9	-	3	9	0	2-3	-	0	3
Stornoway	1021·7	0	ESE	1	c	45	65	7	8	6	-	4-6	9+	1500	1	1
Dalwhinnie	*	0	-	0	c	37	95	7	4	4	-	7-8	10	~~1500~~ 3000	1	*
Aberdeen	1020·0	+4	NNW	3	c	43	75	7	5	-	-	9+	9+	2500	1	2
Wick	1020·9	0	NNE	3	c	45	85	8	4	1	-	9	10	1500	1	2
Lerwick	1021·5	+2	NE'N	4	c	43	65	8	5	8	1	4-6	7-8	1500	0	*
Blacksod Point	1019·9	0	-	0	c	45	95	8	-	5	-	0	7-8	-	0	3
Malin Head	1019·9	+6	S	1	c	43	95	7	8	-	-	9+	9+	1500	0	0
Aldergrove	1020·6	+2	N	1	c	41	85	6	5	-	-	9+	9+	2500	1	*
Donaghadee	1019·9	0	NE	2	c	46	75	8	5	-	-	9	9	1500	0	1
Birr Castle	1020·1	+4	SW	1	of	36	95	2	5	-	-	10	10	1500	1	*
Valentia Obsy.	1019·4	+6	-	0	bc	45	95	8	7	3	1	2-3	4-6	4000	0	5
Roches Point	1018·4	0	N	3	f	45	95	3	5	-	-	10	10	<150	1	3

PAST 24 HOURS. WEATHER.

Stations	7h.–13h. 24th (37)	13h.–18h. 24th (38)	18h. 24th to 1h. 25th (39)	1h.–7h. 25th (40)
London (Kew)	cm$_0$r$_0$	cr$_0$c	cz$_0$ir$_0$	cbc
Croydon	r$_0$d$_0$cm	cm$_0$r$_0$r$_0$	cm$_0$	cm$_0$bcpr$_0$
S. Farnborough	bfcp$_0$bbcd	cpr$_0$cbcm	b,cprbp$_0$	b,cp$_0$bc
Boscombe Down	bmcpr$_0$	cm$_0$cm	cmr$_0$c	cbc
Calshot, S'thmtn	bm$_0$cpr$_0$cm	cm$_0$cur$_0$m	cm$_0$	cpr$_0$m$_0$bc
Dungeness	bc	bc	*	p
Lympne	cd$_0$m$_0$bc	bcc	cprqbccf	crrRqr
Shoeburyness	bcm$_0$pr$_0$	bc	b	b
Felixstowe	cp$_0$bc	bcp$_0$qc	bcp$_0$	prprs
Gorleston	ccrbcq	bcpr$_0$q	bcphr$_0$	cphr$_0$q
Cranwell	cpr$_0$bccpr	cpr$_0$b	bc	cpr$_0$c
Birmingham	bcc	c	cpr$_0$	cpr$_0$
Upper Heyford	r$_0$cm$_0$	cbccpr$_0$	cm$_0$pr$_0$	c
Ross-on-Wye	bccbc	cz	cm$_0$p$_0$c	bc
Portland Bill	bcc	c	cz$_0$oz$_0$	cz$_0$bc
Plymouth	bcm$_0$m	bccz$_0$	cz$_0$bc	bccb
The Lizard	cbc	bcpr$_0$	co	oc
Scilly (St. Mary's)	bcc	c	c	c
Guernsey	cbc	cbcc	co	ocpr
Pembroke	bccbc	bcc	c	cbcc
Holyhead	cm$_0$bc	bcc	c	c
Chester (Sealand)	bcmcz$_0$	bccz$_0$	ir$_0$c	cbcm$_0$
L'pool (Bidston)	bc	bco	owb	bcvc
Manchester	bfcr$_0$	cmr$_0$		
Harrogate	cp$_0$	bccp$_0$	cbc	cbc
Spurn Head	cpr	cpr	cpr	cprbc
Catterick	cpr$_0$	pr$_0$cpr	cprbw	bcpr$_0$b
Tynemouth	bcpq	bcpoq	ocp$_0$bcy	bcq
Inchkeith	bcc	c	c	cbc
Leuchars	cpr$_0$	cpr$_0$prc	c	cbcw
Renfrew (Abbotts I.)	FcFcff	cFcff	cffbc	bcbx
Eskdalemuir	bc	bcc	c	cx
Tiree	xbbc	cbcbx	bxc	cw
Stornoway	c	c	c	cbcc
Dalwhinnie	cr	bc	*	bc
Aberdeen	cpr$_0$c	c	c	c
Wick	c	c	c	c
Lerwick	c	c	cbc	bcc
Blacksod Point	c	c	c	c
Malin Head	z	c	c	c
Aldergrove	cm$_0$	cz$_0$	cbcc	cm$_0$
Donaghadee	cbc	bcc	bcb	b
Birr Castle	bfc	cff	fo	ocx
Valentia Obsy.	cbcbbcb	bbc	cwbcw	bcwbw
Roches Point	ffebcm$_0$	bcm$_0$ffe	offecw	cbcw

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. gale.

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.

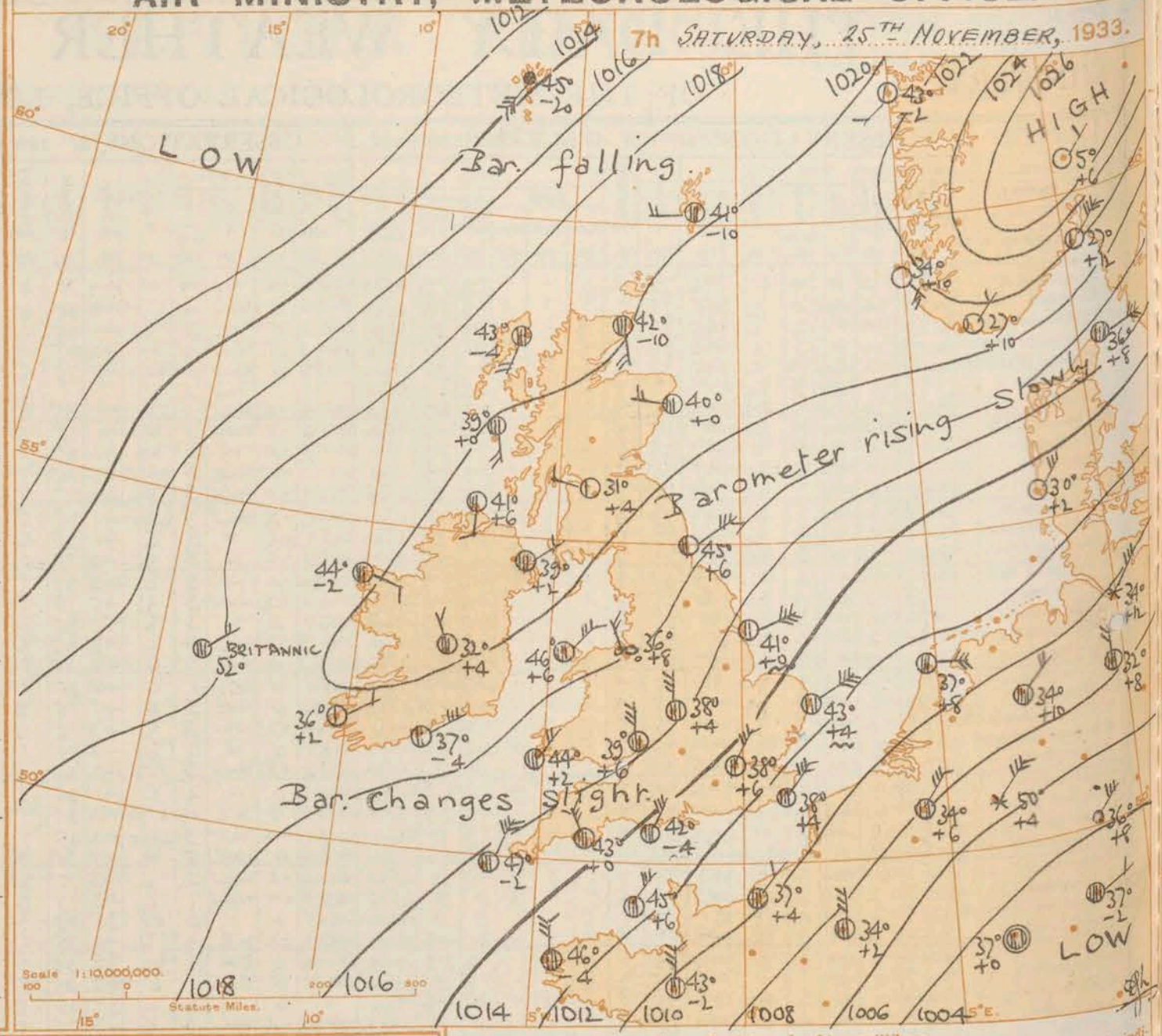
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for 24th November 1933.

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.	bco	oroc	33	46	-	0.5	1.7
	Bournemouth	b	bbm	38	48	-	-	5.9
	Ventnor ...	ocb	boz	38	47	-	-	2.6
	Southsea ...	bcb	bcco	39	48	-	-	2.7
	Bognor Regis	bcbc	bccc	39	48	-	-	2.3
	Littlehampton	bc	bccr	37	48	-	Trace	1.9
	Worthing ...	cbc	cbcc	40	47	-	-	2.2
	Brighton ...	cbcd	bc	40	47	-	Trace	1.6
	Eastbourne†	cbcc	cor.	40	48	-	0.1	2.6
	Hastings† ...	bcc	cbcb	40	47	-	-	2.8
	Folkestone ...	cr.bc	bccr.	41	48	Trace	Trace	4.9
	Dover... ...	bc	bccp	41	49	0.2	Trace	5.3
	Deal	roc	cbcc	40	48	1	0.5	2.9
	Ramsgate ...	bcc	cpc	41	49	0.3	Trace	3.3
	Margate ...	bc	bccp	44	48	-	Trace	3.4
2	Southend ...	cr	cbcb	41	47	0.2	0.2	1.6
	Maldon ...	pcb	cpc	41	47	0.3	0.3	2.6
	Clacton-on-Sea	bcd	bc	40	48	0.3	Trace	4.1
	Dovercourt ...	dbc	bcpbc	41	49	Trace	Trace	4.6
	Lowestoft ...	prcbc	bcdbc	42	48	2	0.4	4.4
	Skegness ...	bcod	obcr	41	48	1	1	2.3
	Mablethorpe	cbcc	or.cm	41	47	1	Trace	2.2
	Cleethorpes ...	bcp	bcp	40	47	1	0.1	2.1
3	Leamington S.	bcc	com	35	46	-	-	1.8
4	Cheltenham†	cmp.	cof.	38	44	0.3	Trace	0.7
5	Bath	cbc	cbc	36	46	Trace	-	1.5
	Weymouth ...	b	bbc	37	50	-	-	4.6
	Jersey ...	cbc	bcc	43	52	-	-	2.7
	Torquay ...	bmcs	bcmo	31	50	-	-	4.4
	Penzance ...	bcbc	bcc	37	54	-	-	3.8
	St. Ives ...	b	b	42	51	-	-	3.6
	Bude	cbc	cbc	31	49	-	-	3.6
	Ilfracombe ...	bc	bcc	39	50	-	-	4.3
6	Aberystwyth	3bbc	bc	35	48	-	-	5.3
7	Llandudno ...	bcb	cbc	37	49	-	-	2.0
	Colwyn Bay...	bcbc	bccbc	38	48	-	-	2.4
	Rhyl	bcc	cbcc	34	47	-	-	1.4
8	Wallasey ...	bbc	bc	37	45	-	-	1.6
	Southport‖ ...	bbc	bcc	33	43	-	-	1.3
	Blackpool ...	cbc.	cbc	35	46	-	-	2.3
	Morecambe ...	bcc	bbcc	33	45	Trace	-	1.9
9	Ilkley... ...	c	cpr.c	34	44	-	Trace	0.2
10	Berwick-on-T.	cpr.	c	37	46	0.3	Trace	1.5
11	Dunbar ...	bcs	bc	40	46	Trace	-	0.0
12	Troon... ...	Fxfb	bcfF	32	44	-	-	2.3
	Douglas ...	xbc	bcbc	38	46	-	-	6.5

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— ◎ TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :— ○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◑ Sky 1/10 to 9/10 clouded. ● Overcast sky. ● Rain falling. ✱ Snow. ✱ Sleet. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. T Thunderstorm. ∞ Slight haze.
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 Nov. 1933.
1. S.E. England 2. E. England... 3. E. Midlands	Moderate or fresh northeast wind, strong locally on coast; cloudy or variable sky; local wintry showers, especially near East Coast; rather cold.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Moderate northeast wind; fair; rather cold.
8. N.W. England 9. N Midlands	Moderate to light northeast to variable wind; fair; perhaps local fog later; rather cold, frost night and morning.
10. N.E. England 11. S.E. Scotland	Moderate to light northeast to variable wind; mainly fair, a few local wintry showers at first; perhaps local fog later; rather cold, frost locally later.
12. S.W. Scotland & Isle of Man	Light variable to southwest wind; fair; local fog; rather cold, frost night and morning.
13. A. W Scotld. B. N.W. Scotland	Light south to southwest wind, freshening; cloudy, local drizzle later; milder.
14. Mid-Scotland	
15. N.E. Scotland	As 11 - 12.
16. Orkneys and Shetlands.	As 13 - 14.
17. N.W. Ireland	
18. N.E. Ireland	As 11 - 12.
19. S.E. Ireland 20. S.W. Ireland	Light northeast to variable wind; fair; local fog later; rather cold, frost locally night and morning.

GENERAL INFERENCE.

A belt of high pressure from the Azores to Scandinavia is moving slowly southeast. Pressure will remain low in the Mediterranean and will fall further in Iceland and Northern Scandinavia. Milder southwest winds will develop in the extreme northwest of the British Isles, but elsewhere there will be little change.

FURTHER OUTLOOK.

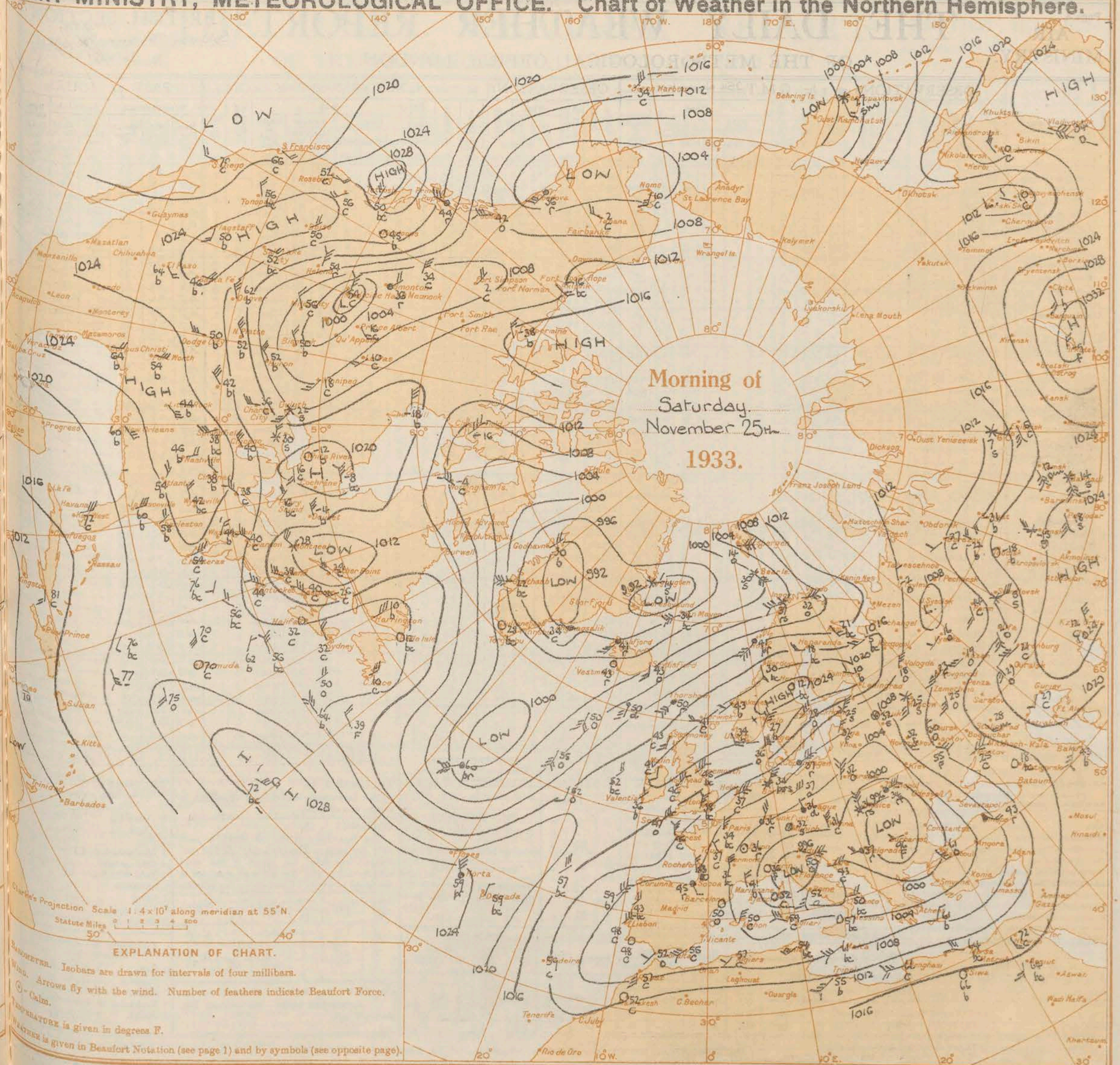
Little change.

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

Saturday, 25th November 1933.

No. 26.301

OBSERVATIONS at 1 hr. G.M.T. 25th November

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)...	13	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1012.9	-4	NNW	3	c	41	85	6	5	-	-	9+	9+	2500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1011.0	-2	N'W	3	ir₀	38	85	8	5	1	-	4-6	7-8	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	5	1012.0	0	NE'E	5	c/ph(r)	40	95	7	9	-	-	7-8	7-8	1500
	Cranwell ...	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1013.6	-4	N	3	o	43	85	6	5	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard ...	240	1016.1	0	N'E	2	o	44	75	8	5	-	-	10	10	4000
	Scilly (St. Mary's)	163	1016.2	+2	NE'N	4	c	48	65	8	5	-	-	9+	9+	2500
	Guernsey ...	175	1012.9	-10	NNE	5	o	46	65	6	5	-	-	10	10	2500
6	Pembroke ...	142	1016.8	+4	NE	2	c	45	75	7	5	2	-	4-6	10	2500
7	Holyhead ...	26	1018.5	0	NE	3	c	47	65	8	5	-	-	9+	9+	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1013.7	0	ENE	6	c/pr	44	75	8	3	7	-	4-6	7-8	4000
	Catterick ...	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth ...	100	1018.0	+6	NNE	5	bc	47	95	8	2	-	-	4-6	4-6	2500
11	Inchkeith ...	190	1020.7	0	N	2	c	42	75	8	5	2	-	7-8	10	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts I.)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1020.9	-8	SSE	3	c	44	75	8	4	6	-	4-6	7-8	2500
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1021.4	-2	N	3	c	45	75	8	5	1	-	7-8	10	1500
16	Lerwick ...	54	1021.0	-2	NE'N	2	bc	42	75	8	5	-	-	4-6	4-6	1500
17	Blacksod Point	18	1019.9	0	-	0	c	45	95	86	-	7	-	0	10	-
18	Malin Head ...	52	1020.0	-6	S	1	c	41	95	7	8	-	-	9+	9+	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1019.1	-6	NW	1	bc	46	95	8	5	-	-	4-6	4-6	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 25th November — 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 24th Hrs. (36)
1	London (Kew)...	1013.6	+6	N'E	4	bc	39	75	7	5	-	-	4.6	4.6	2500	1	*	47	38	33	Tr	Tr	1.3
	Croydon ...	1013.3	+6	N'E	4	bc/pc	38	85	6	5	3	-	4.6	4.6	1500	1	*	47	38	35	1	Tr	0.3
	S. Farnborough	1013.4	+4	N'E	3	bc	36	85	6	5	-	-	2.3	2.3	2500	1	*	45	36	32	Tr	0.4	0.7
	Boscombe Down	1014.3	+6	N'E	3	b	35	95	7	5	-	-	Tr	Tr	4000	1	*	46	35	31	Tr	Tr	1.6
	Calshot, (S'thmtn)	1013.6	+6	N'W	4	bc	39	85	7	8	-	-	4.6	4.6	2500	1	1	47	39	32	Tr	0.1	2.4
	Dungeness ...	*	*	NNW	3	PR	*	*	7	3	-	*	7.8	7.8	1500	*	2	49	*	*	Tr	3	*
	Lympne ...	1011.3	+4	NNE	5	c/pr	38	75	9	8	1	-	4.6	7.8	1500	1	*	46	35	34	Tr	3	3.3
2	Shoeburyness	1012.4	0	N	3	b	36	95	8	8	-	-	1	1	2500	0	*	48	35	31	0.1	-	2.8
	Felixstowe ...	1012.2	+6	N'W	3	c/ps	37	85	8	9	-	-	7.8	7.8	1500	1	2	48	36	33	Tr	3	4.4
	Gorleston ...	1012.4	+4	NE	6	c/phs	42	75	7	9	-	-	9	9	1500	1	4	48	38	37	0.2	2	3.8
	Cranwell ...	1015.9	+6	N'E	2	c	38	75	7	5	-	-	9	9	2500	1	*	45	36	33	0.1	0.2	1.9
3	Birmingham ...	1016.9	+4	N	3	c	38	85	7	5	-	-	7.8	7.8	2500	1	*	45	37	34	Tr	0.2	1.2
	Upper Heyford	1015.5	+8	NNE	3	c	37	85	8	5	3	-	9	9	1500	1	*	45	36	30	Tr	Tr	*
4	Ross-on-Wye ...	1016.2	+6	N	3	c	39	85	6	5	-	-	7.8	7.8	4000	1	*	46	39	35	Tr	Tr	3.1
5	Portland Bill...	1013.4	-4	NNE	3	c	42	85	7	5	-	-	10	10	1500	0	3	49	40	*	-	-	*
	Plymouth ...	1014.6	0	NW	4	c	43	75	8	5	-	6	7.8	7.8	2500	1	2	51	42	40	-	-	3.4
	The Lizard ...	1015.5	0	N'E	3	c	43	65	8	5	-	-	9+	9+	2500	1	2	51	43	*	Tr	-	*
	Scilly (St. Mary's)	1015.6	-2	NE'N	5	c	47	65	8	5	-	-	10	10	2500	0	3	52	46	*	-	-	5.0
	Guernsey ...	1012.2	+6	NNE	3	c/pr	45	65	7	8	-	-	7.8	7.8	2500	1	3	50	45	41	-	0.1	2.0
6	Pembroke ...	1016.7	+2	NE	2	c	44	65	7	4	2	-	4.6	7.8	2500	0	1	52	42	*	Tr	-	4.1
7	Holyhead ...	1018.4	+6	NE	4	c	46	65	8	5	-	-	9+	9+	2500	1	2	49	46	42	-	-	3.7
	Chester (Sealand)	1018.5	+8	N'W	2	3₀	36	85	5	5	-	-	1	1	5700	1	*	46	34	27	-	Tr	1.0
8	L'pool (Bidston)	1018.7	+8	N'E	2	b	37	85	9	5	-	-	1	1	4000	0	*	44	37	33	-	-	2.1
	Manchester																*	45			Tr		*
9	Harrogate ...	1018.0	+6	NNE	1	c	35	85	8	3	-	-	9	9	2500	1	*	43	35	27	0.1	-	0.7
10	Spurn Head ...	1014.8	0	ENE	6	bc	41	75	7	5	4	-	2.3	4.6	4000	0	4	47	41	*	1	1	2.3
	Catterick ...	1018.5	+8	NNW	2	bc	36	85	7	5	-	-	2.3	2.3	2500	1	*	44	34	27	0.3	0.6	0.6
	Tynemouth ...	1018.2	+6	NE	4	bc	45	65	8	2	-	-	2.3	2.3	2500	1	3	47	44	38	0.3	Tr	*
11	Inchkeith ...	1020.3	+4	N	3	bc	40	75	8	5	-	-	4.6	4.6	1500	1	2	44	40	34	-	-	2.9
	Leuchars ...	1020.1	+2	NW	3	c	38	75	8	8	-	1	7.8	7.8	2500	1	*	44	37	32	0.2	-	0.9
12	Renfrew (Abbotts I.)	1021.2	+4	W'N	1	b	31	95	7	5	-	-	1	1	4000	1	*	38	31	25	Tr	-	0.0
	Eskdalemuir ...	1020.0	+8	-	0	c	35	85	8	5	-	-	9	9	1500	1	*	42	34	31	-	-	2.3
13A	Tiree ...	1020.3	0	S	2	c	39	95	9	5	7	-	7.8	9	4000	0	2	44	32	18	-	-	0.9
13B	Stornoway ...	1019.4	-4	SSW	2	c	43	85	8	5	6	-	7.8	9	2500	1	1	46	38	*	-	-	0.1
15	Dalwhinnie ...	·	+2	-	0	b	23	95	8	-	-	-	0	0	-	5	*	38 (40)	22	17	Tr	-	0.1
	Aberdeen ...	1020.1	0	WNW	2	c	40	85	7	5	-	-	7.8	7.8	2500	1	2	44	40	36	Tr	-	0.1
	Wick ...	1019.9	-10	S	2	c	42	75	8	5	1	8	4.6	7.8	2500	1	2	45	41	*	-	-	*
16	Lerwick ...	1019.9	-10	W	2	c	41	75	8	5	7	-	4.6	7.8	1500	0	*	45	39	*	-	-	0.0
17	Blacksod Point	1019.8	-2	ESE	1	c	44	75	7	-	7	-	0	10	-	0	3	50	40	*	-	-	*
18	Malin Head ...	1020.3	+6	S	1	c	41	85	7	5	-	-	9+	9+	1500	0	0	49	38	*	-	-	0.5
	Aldergrove ...	1021.3	+2	NE	1	c	39	75	6	5	-	-	10	10	1500	1	*	46	36	31	-	-	0.4
	Donaghadee ...	1020.0	+2	ENE	2	bc	45	65	8	5	-	-	2.3	2.3	1500	0	2	48	43	*	-	-	*
19	Birr Castle ...	1020.8	+4	NNW	1	c	32	95	7	5	-	-	9+	9+	2500	1	*	41	30	20	-	-	1.5
20	Valentia Obsy.†	1018.9	+2	NE'E	1	b	36	95	8	5	-	-	Tr	Tr	4000	0	-	53	36	32	-	Tr	6.7
	Roches Point...	1018.8	-4	NE	3	bc	37	85	8	3	-	-	4.6	4.6	2500	0	3	46	35	*	Tr	Tr	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich & Hampstead 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.	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	cm₀r₀	cr₀c	c3₀r₀cbc	47	38	33	Tr	Tr	1.3	*	*	6
Croydon ...	217	r₀d₀cm	cm₀r₀r₀	cm₀bcpr₀	47	38	35	1	Tr	0.3	*	*	5
Greenwich (Royal Observatory) ...	149	cp₀m₀	cp₀m₀	cpbcbm₀	47	37	31	Tr	Tr	1.2	83	83	5
City (Bunhill Row) ...	—	*	*	*	*	*	*	*	*	0.8	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	49	37	34	0.3		0.6	71	81	*
‡Regents Pk. (Botanic Gardens) ...	168	*	*	*	47	37	33	Tr		0.9	84	81	*
Camden Square ...	110	c	c	*	46	37	33	Tr	-	*	*	83	*
Kensington ...	80	bcpbc	cbcc	*	47	37	31	Tr	-	0.7	At 18h. 74	82	*
Hampstead Observatory ...	450	c	bcp	bcb	45	34	28	0.1	-	1.1	*	92	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 25th

SOUTH KENSINGTON.			
Max.	Time.	Min.	Time.
0.3	14-21h 24th	nil	2-5h 25th

KEW OBSERVATORY.			
Max.	Time.	Min.	Time.
0.2	20h 24th	0.1	3h 25th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 24th November Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 25th November 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 ...	1007.9	NW	4	bc	45	1007.3	N	3	bc	34	48	34	Tr	-
Brussels ...	1006.3	N	4	rr	39	1008.0	NNE	4	c	34	45	34	1	0.2
Berlin ...	1003.0	NE'N	3	rr	37	1007.0	ENE	3	3₀	37	39	36	2	0.3
Zürich ...	1006.4	NNW	1	m	56	1003.0	-	0	f₀	34	43	34	9	0.3
Rome ...	997.1	NW	1	b	46	997.5	SW	4	o	52	57	39	Tr	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.

Beau-fort. No.	Statute m/h.	Beau-fort No.	Statute m/h.	Beau-fort 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 ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 26th November 1933.

No. 26.302

OBSERVATIONS at 13h. G.M.T. 25th 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)	Amount Low 0-10 (12)	Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)	1012·8	-8	N'E	4	bc	43	65	6	2	-	-	4-6	4-6	2500
	Croydon	1012·7	-6	N	4	zo	41	65	6	7	-	-	4-6	4-6	2500
	S. Farnborough	1012·8	-10	N'E	4	c	42	75	7	8	3	-	7-8	7-8	1500
	Boscombe Down	1014·1	-2	NNE	5	c	40	75	8	8	-	-	9	9	2500
	Calshot, S'thmtn	1013·1	-8	N'W	4	c	42	65	7	8	7	-	4-6	9	2500
	Dungeness	*	*	NE	4	pr	*	*	6	8	-	*	7-8	7-8	1500
	Lympne	1011·4	-10	NNE	4	c/pr	37	85	8	5	-	-	9+	9+	1500
2	Shoeburyness	1011·7	-14	N'E	4	cjp	41	75	7	8	7	3	4-6	9	4000
	Felixstowe	1012·1	-10	N'E	4	cjp	40	75	7	9	-	-	7-8	7-8	2500
	Gorleston	1012·5	0	NE'N	6	bc	40	85	7	9	-	-	4-6	4-6	2500
	Cranwell	1016·1	-6	NE'N	3	c/pr	41	75	7	5	-	-	9+	9+	2500
3	Birmingham	1016·5	-4	NNE	4	m	41	65	4	6	4	-	4-6	7-8	1500
	Upper Heyford	1014·8	-12	NE	4	c/pr	40	75	8	9	3	-	7-8	9	1500
4	Ross-on-Wye	1015·8	-4	NE	3	zo	42	65	6	1	-	-	4-6	4-6	4000
5	Portland Bill	1012·9	-8	NNE	4	bc	44	85	7	2	-	-	4-6	4-6	2500
	Plymouth	1014·7	-6	NE'E	4	bc	44	55	8	7	-	-	4-6	4-6	4000
	The Lizard	1014·5	-4	NNE	3	bc	45	65	8	8	6	-	2-3	4-6	4000
	Scilly (St. Mary's)	1015·1	-6	NE	5	c	47	65	8	5	-	-	7-8	7-8	2500
	Guernsey	1012·4	-2	NNE	5	c	45	65	7	8	-	-	7-8	7-8	2500
6	Pembroke	1016·6	-10	ENE	3	bc	45	55	8	5	4	-	2-3	2-3	5700
7	Holyhead	1018·2	-10	ENE	4	b	46	55	8	1	-	-	1	1	4000
8	Chester (Sealand)	1018·3	-8	NNE	3	zo	43	65	6	5	-	-	4-6	4-6	4000
	L'pool (Bidston)	1018·1	-6	NNE	3	b	42	65	6	1	-	-	1	1	4000
	Manchester	1017·7	-6	ENE	5	g	44	55	5	7	-	-	4-6	4-6	1500
9	Harrogate	1018·6	0	ENE	3	b	40	65	9	5	-	-	1	1	4000
10	Spurn Head	1015·2	+2	ENE	6	c	42	75	8	3	7	-	4-6	7-8	2500
	Catterick	1018·7	-8	NE	3	c	41	65	8	5	-	-	7-8	7-8	4000
	Tynemouth	1019·4	0	NE	3	bc	43	55	8	2	-	-	4-6	4-6	2500
11	Inchkeith	1020·6	-4	WSW	1	c	40	75	6	5	7	1	4-6	9	1500
	Leuchars	1020·2	-6	NW	2	c	40	75	8	5	-	-	7-8	7-8	4000
12	Renfrew (Abbotts I.)	1020·5	-6	-	0	zo	41	85	6	5	-	-	9+	9+	4000
	Eskdalemuir	1019·6	-8	E'N	3	bc	40	65	8	4	-	-	4-6	4-6	2500
13A	Tiree	1019·1	-14	SSW	2	c	45	75	8	5	-	-	9	9	4000
13B	Stornoway	1017·9	-14	SW	3	bc	46	75	8	8	4	1	2-3	4-6	2500
15	Dalwhinnie	1020·7	-6	W	1	b	37	75	8	4	-	-	1	1	2500
	Aberdeen	1020·2	-2	-	0	c	42	75	6	5	-	-	7-8	7-8	4000
	Wick	1019·4	-6	S	3	c	44	85	8	5	3	-	4-6	7-8	2500
16	Lerwick	1018·6	-12	SSW	3	c	44	65	8	5	7	8	4-6	7-8	1500
17	Blacksod Point	1019·3	-20	ESE	2	c	45	65	8	5	-	-	7-8	7-8	800
18	Malin Head	1019·1	-14	S	1	zo	44	85	6	5	-	-	Tr	Tr	1500
	Aldergrove	1019·8	-10	NE'E	1	zo	42	75	7	5	-	-	2-3	2-3	4000
	Donaghadee	1019·1	-6	ENE	3	bc	46	65	8	8	3	-	2-3	4-6	2500
19	Birr Castle	1019·5	-12	-	0	bc	44	85	8	5	-	-	4-6	4-6	4000
20	Valentia Obsy.	1018·2	-12	-	0	c	46	75	8	5	-	-	7-8	7-8	7200
	Roches Point	1018·0	-8	N	2	bc	47	75	8	5	-	-	2-3	2-3	2500

OBSERVATIONS at 18h. G.M.T. 25th November

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)	1012·6	0	N'E	3	b	37	85	7	-	-	-	0	0	-	1	•
Croydon	1012·7	0	NNE	2	zo	37	85	5	5	3	-	4-6	7-8	1500	1	•
S. Farnborough	1012·6	0	N	1	b	36	85	6	5	-	-	1	1	1500	1	•
Boscombe Down	1013·0	-2	NNE	4	bc	35	85	7	-	3	-	0	4-6	-	1	•
Calshot, S'thmtn	1012·2	+2	N'W	4	bc	38	85	7	8	-	-	2-3	2-3	2500	1	2
Dungeness	*	*	NE	4	PH(R)	*	*	6	8	-	*	7-8	7-8	1500	*	3
Lympne	1010·9	-2	N'E	4	c/rs	34	95	6	5	-	-	9	9	1500	1	•
Shoeburyness	1011·5	-2	N	3	PR	36	95	7	9	-	3	7-8	9	1500	1	•
Felixstowe	1011·8	0	NNE	3	roro	36	95	7	6	-	-	10	10	1500	1	2
Gorleston	1012·7	+6	NE'E	5	c/phr	40	95	7	9	-	-	7-8	7-8	2500	1	4
Cranwell	1015·9	+2	NNE	3	cjp	37	95	7	9	-	-	9	9	800	1	•
Birmingham	1015·7	0	NNE	4	m	38	75	4	5	-	-	9	9	1500	1	•
Upper Heyford	1014·8	+2	NE	3	bc	35	95	7	-	3	-	0	4-6	-	1	•
Ross-on-Wye	1015·0	0	NE	3	zo	40	65	5	5	-	-	9+	9+	4000	1	•
Portland Bill	1012·1	-6	NNE	4	bc	41	75	7	4	-	-	2-3	2-3	2500	0	3
Plymouth	1013·7	0	N	3	zo	40	65	6	5	-	-	1	1	5700	1	1
The Lizard	1014·1	0	NNE	3	bc	37	75	8	4	-	-	2-3	2-3	4000	0	2
Scilly (St. Mary's)	1014·3	+2	ENE	4	c	44	55	8	5	-	-	7-8	7-8	2500	0	3
Guernsey	1010·3	-6	NNE	5	bc	44	65	8	8	-	-	4-6	4-6	2500	0	4
Pembroke	1016·5	-2	ENE	2	c	42	65	7	5	-	2	4-6	7-8	4000	0	1
Holyhead	1017·4	-2	ENE	4	c	43	65	7	5	-	-	7-8	7-8	4000	1	2
Chester (Sealand)	1017·9	+2	NE	2	zo	33	75	6	4	-	-	1	1	4000	1	•
L'pool (Bidston)	1017·1	0	NE	3	zo	38	65	5	-	-	-	0	0	-	0	•
Manchester	1017·2	-2	NE	3	zo	36	75	5	-	3	-	0	4-6	-	?	•
Harrogate	1017·7	0	NNE	2	c	38	65	7	5	-	-	9+	9+	4000	1	•
Spurn Head	1015·8	0	E'N	6	pro	40	85	7	6	2	-	4-6	9+	2500	1	4
Catterick	1018·1	-2	NE	1	c	38	75	7	5	-	-	9+	9+	4000	1	•
Tynemouth	1018·6	0	NE	3	c	42	55	8	9	-	-	7-8	7-8	1500	1	2
Inchkeith	1019·7	-2	SE	1	zo	41	75	5	5	-	-	9+	9+	1500	0	1
Leuchars	1019·6	+2	NW	1	bc	32	95	6	5	-	8	4-6	4-6	5700	4	•
Renfrew (Abbotts I.)	1019·2	-6	-	0	bf	32	95	3	-	-	-	0	0	-	1	•
Eskdalemuir	1019·7	0	NNE	2	bc	32	75	8	4	-	-	4-6	4-6	4000	1	•
Tiree	1017·5	-10	S	4	c	42	75	8	5	-	-	9	9	2500	0	2
Stornoway	1015·6	-10	SW	2	b	45	85	8	-	4	9	0	Tr	-	1	1
Dalwhinnie	1019·8	-2	W	1	b	28	95	8	4	-	-	Tr	Tr	2500	5	*
Aberdeen	1019·5	-4	SSW	1	b	38	75	5	-	4	1	0	1	-	1	1
Wick	1017·7	-4	SSW	3	bc	42	85	8	4	3	2	2-3	4-6	2500	1	2
Lerwick	1016·8	-6	SSW	3	c	45	75	8	5	3	-	4-6	7-8	1500	0	•
Blacksod Point	1016·5	-16	SE'E	2	b	41	85	7	-	-	-	0	0	-	0	2
Malin Head	1017·3	-10	S	2	c	38	95	7	7	-	-	9+	9+	1500	0	0
Aldergrove	1018·5	-2	ESE	1	c	38	85	7	5	-	-	9+	9+	4000	1	•
Donaghadee	1017·8	-2	ESE	3	c	45	65	8	5	-	-	7-8	7-8	1500	0	2
Birr Castle	1016·9	-8	NE	1	b	35	95	8	-	-	-	0	0	-	1	•
Valentia Obsy.	1016·0	-10	SSE	2	b	39	85	8	5	-	-	Tr	Tr	4000	0	3
Roches Point	1016·0	-8	NE	2	bc	39	85	8	5	-	-	2-3	2-3	2500	0	2

PAST 24 HOURS.

Stations	Weather 7h.—13h. 25th (37)	13h.—18h. 25th (38)	18h. 25th to 1h. 26th (39)	1h.—7h. 26th (40)
London (Kew)	bczo	cpob	bbc	c
Croydon	bcmom	bccpromm	bcprhcmo	cmo
S. Farnborough	bcb, c	PSHPRSrbcb	b, c	c
Boscombe Down	bbcc	cpro bc	bcbbcc	c
Calshot, S'thmtn	bcbbcc	cprcbc	bcbxbcx	bcc
Dungeness	prs	p	*	cq
Lympne	dssprsq	cprhsq	phqc	c
Shoeburyness	cpro	cpro pr	cpr rr	crrpr
Felixstowe	bcprhq	cpoqroro	ororprh	c
Gorleston	cbcphsro	bcphrq	bcq	cq
Cranwell	bcprsqcpr	pr pro	cpr	prcm
Birmingham	probc	mc	cbc	bco
Upper Heyford	bcpro	cprbc	bcb	bbccmx
Ross-on-Wye	bccbbc	cz	czompo	omocm
Portland Bill	cbc	bc	bbcc	cbc
Plymouth	cbcy	bcbyzo	bczo b	bw
The Lizard	bc	bc	bcbbc	bc
Scilly (St. Mary's)	c	cbcc	cbc	bbc
Guernsey	cbc	cbcc	bccpr	Rrpr
Pembroke	cbcvy	bcc	bx	bbcx
Holyhead	cbc	bybcc	bc	bmox
Chester (Sealand)	xmbbc	bcbzo	bmox	bbcxm
L'pool (Bidston)	bbcb	bbcb	b	bx
Manchester	bxbcm	bzo bc	bbcx	bbcm-x
Harrogate	cb	bbcc	cb	cbx
Spurn Head	cprq	qprh	cpr	prc
Catterick	bcmoc	c	bc	bcc
Tynemouth	bc	bcc	cpobc	bccp
Inchkeith	bcc	c	czo	czo bcx
Leuchars	bcprocbc	bcx	bccxmo	cbcxmo
Renfrew (Abbotts I.)	bx bcc	cmogbf	bffx	fx Fx
Eskdalemuir	crobc	cbc	bcxbx	bxcx
Tiree	c	c	c	c
Stornoway	cbc	bccbc	b, c	c
Dalwhinnie	b	b	*	b
Aberdeen	c	bbcbzo	bzbczo	bczo c
Wick	c	cbc	bc	bc
Lerwick	c	c	cbcc	c
Blacksod Point	c	c	cq	bc
Malin Head	cbczo	bc	bc	bc
Aldergrove	cb	cb, c	cbc	bcc
Donaghadee	bbc	bcc	bcc	c
Birr Castle	cbc	bcb	bc	cbcx
Valentia Obsy.	bwbbcc	cbcb	bwb	b
Roches Point	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. r_o, slight rain. rr, continuous rain.

<, less than (for cloud height).

⊕, Solar halo. ♁ lunar halo. gale.

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.

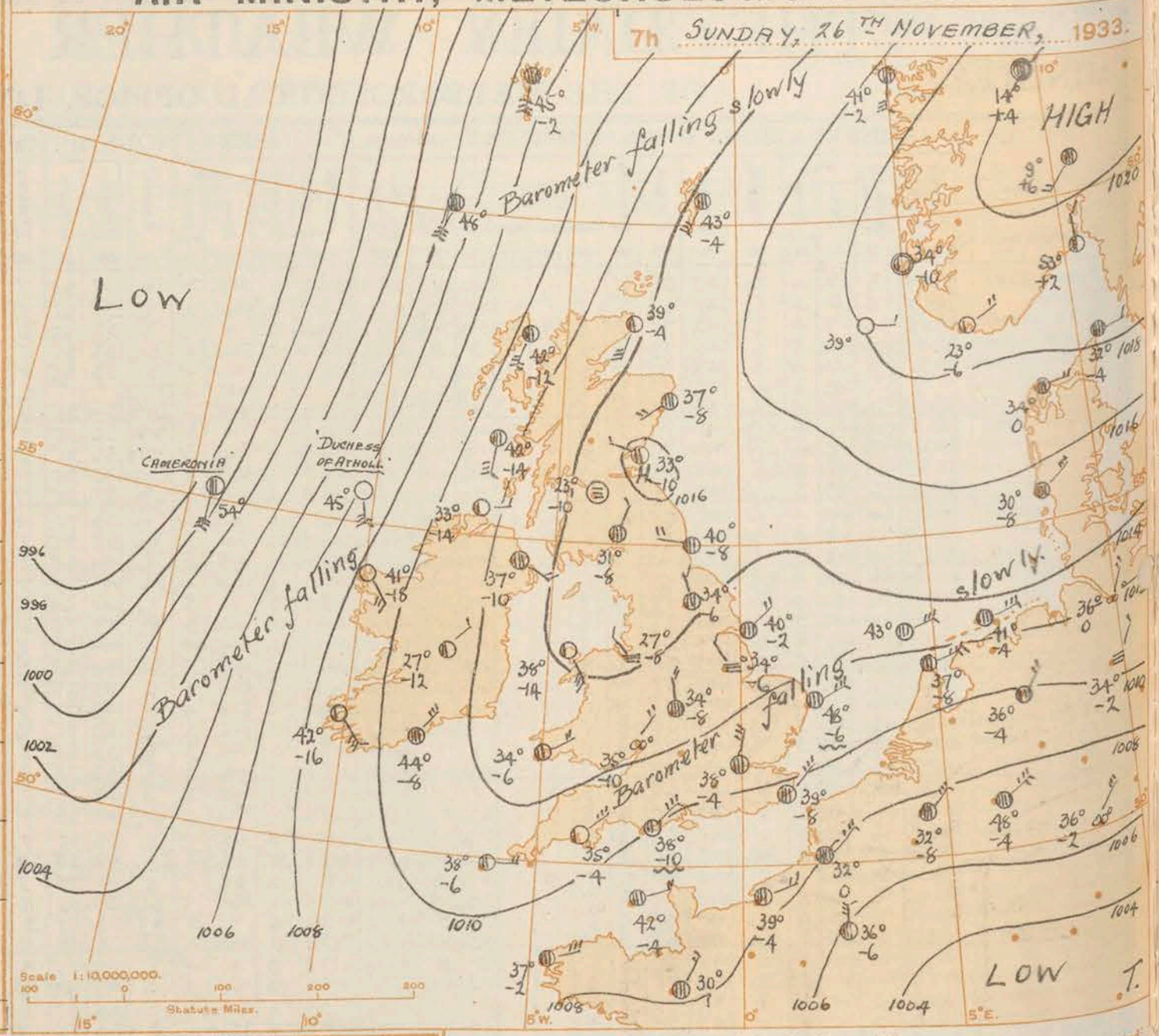
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for 25th November 1933

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	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. 25th
1	Tunbridge W.	bc	corps	35	42	-	2	1·8
	Bournemouth	bc	bc	38	44	Trace	-	5·2
	Ventnor ...	b	bopbc	38	43	-	Trace	6·2
	Southsea ...	b	bcpbm	37	44	-	Trace	4·9
	Bognor Regis	b	bcprs	37	43	-	1	4·7
	Littlehampton	bbc	bcpc	36	43	-	1	4·7
	Worthing ...	bbc	cor	37	44	-	1	4·6
	Brighton ...	bcrc	bc	37	43	-	1	3·8
	Eastbourne†	bbccc	corsrcb	36	41	0·2	3	2·6
	Hastings† ...	bcco	oscbcc	35	40	2	7	1·6
	Folkestone ...	cph	cph	35	39	8	6	0·8
	Dover... ...	cqhr	pqhrc	37	42	6	5	0·6
	Deal	hco	oro	37	42	4	4	0·2
	Ramsgate ...	cprs	cprsc	37	42	3	3	0·5
	Margate ...	cprh	cprh	37	42	5	4	0·4
2	Southend ...	bbcc	crbc	35	42	Trace	0·2	2·5
	Maldon ...	b	cpcb	38	43	-	0·3	3·4
	Clacton-on-Sea	bcprs	bcprsh	35	40	2	1	1·4
	Dovercourt ...	rbcc	rbcc	36	42	2	Trace	1·7
	Lowestoft ...	prcbc	bcihc	42	43	1	1	0·9
	Skegness ...	drhc	bcorc	39	43	1	1	2·6
	Mablethorpe	cp	opu	40	43	3	0·3	0·0
	Cleethorpes...	bcp	cph	41	44	0·4	1	0·8
3	Leamington S.	bc	cdc	38	44	-	Trace	4·6
4	Cheltenham†	bfbq	bqbcc	36	42	0·3	-	3·6
5	Bath	bbc	bcc	39	44	-	-	3·2
	Weymouth ...	b	bccdb	40	45	-	Trace	4·8
	Jersey ...	psbc	bcpsc	45	48	Trace	Trace	3·8
	Torquay ...	bc	bbccyz	41	45	-	-	4·6
	Penzance ...	cbc	cbbcb	43	49	-	-	2·4
	St. Ives ...	bcc	bcc	45	47	-	-	1·9
	Bude	cbc	bc	*	46	-	-	4·7
	Ilfracombe ...	bcb	bbc	44	46	-	-	4·7
6	Aberystwyth	cbc	bcs	37	46	-	-	5·3
7	Llandudno ...	b	bbc	38	46	-	-	5·1
	Colwyn Bay...	bbcb	bbc	41	44	-	-	5·2
	Rhyl	bbbc	cbc	35	46	-	-	4·3
8	Wallasey ...	bbc	b	36	43	-	-	3·6
	Southport‖ ...	bbc	bcc	33	42	-	-	5·0
	Blackpool ...	bc	bcc	34	43	0·2	-	4·7
	Morecambe ...	cbc	cbc	35	43	-	-	5·3
9	Ilkley... ...	bc	bc	33	43	-	-	5·2
10	Berwick-on-T.	bc	bc	43	45	-	-	5·7
11	Dunbar ...	rbc	bc	43	46	0·5	-	1·5
12	Troon... ...	fxbcm	bcf	32	43	-	-	4·5
	Douglas ...	cb	cb	39	46	-	-	3·2

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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. 26th Nov., 1933.

Districts.	Forecasts
1. S.E. England 2. E. England... 3. E. Midlands	Light or moderate northeast wind; mainly cloudy but some bright intervals; local wintry showers near coast, rather cold, frost locally inland at night.
4. W. Midlands 5. S.W. England 6. South Wales	Light northeast wind; fair, cold; local 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	Light variable wind; fair; local fog; cold, local frost at night
13. A. W Scotld. B. N.W. Scotland 14. Mid-Scotland 15. N.E. Scotland 16 Orkneys and Shetlands. 17. N.W. Ireland	Light or moderate southerly wind; freshening; cloudy; cold at first, becoming milder, perhaps local drizzle later.
18. N.E. Ireland 19. S.E. Ireland	As 7 - 12.
20. S.W. Ireland	As 13 - 15.

GENERAL INFERENCE.

A wedge of high pressure extends over the British Isles from an anticyclone over Southern Scandinavia, while a low pressure system is approaching Western Ireland. In West Ireland and West and North Scotland weather will become milder and rain will occur later. Over the remainder of the country mainly fair and rather cold conditions will continue although wintry showers are to be expected on the east coast of England.

FURTHER OUTLOOK.

Milder and unsettled in the West and North. Little change elsewhere.

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

Sunday, 26th November 1933.

No. 26.302

OBSERVATIONS at 1 hr. G.M.T. 26th November

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	1012.5	-4	NE	2	c	37	85	6	5	7	–	4-6	9	2500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1011.0	-2	ENE	5	c	38	75	8	5	–	–	10	10	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1013.6	0	NE'E	4	c	39	85	7	9	–	–	9	9	1500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1011.2	-4	NNE	4	c	37	85	7	4	–	–	10	10	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1012.2	-6	N'E	3	bc	37	75	8	2	–	–	4-6	4-6	2500
	Scilly (St. Mary's)	163	1012.7	-14	E'N	4	b	41	65	8	2	–	–	1	1	2500
	Guernsey	175	1009.9	-10	NE	6	pr	43	75	6	8	–	–	10	10	1500
6	Pembroke	142	1014.1	-4	ENE	2	b	37	75	7	–	–	–	0	0	—
7	Holyhead	26	1016.3	-14	E	3	b	38	85	6	5	–	–	Tr	Tr	4000
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	473	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1014.0	-2	E'S	5	c/pr	42	95	8	6	2	–	4-6	7-8	4000
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	100	1016.4	-12	E	3	bc	42	75	8	9	–	–	4-6	4-6	1500
11	Inchkeith	190	1018.1	-12	SW	1	3o	37	85	5	5	3	–	4-6	7-8	1500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts'l)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1013.4	-16	SSW	5	c	43	75	7	8	7	–	4-6	7-8	1500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	87	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1014.9	-12	SSW	4	b	41	75	8	1	–	–	1	1	4000
16	Lerwick	54	1014.8	-8	SSW	4	c	44	75	8	5	–	–	9	9	1500
17	Blacksod Point	18	1011.7	-20	SE	4	9/	42	85	7	9	–	–	9	9	800
18	Malin Head	52	1014.8	-20	E	1	b	35	95	7	5	8	–	Tr	Tr	1500
	Aldergrove	236	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1013.0	-20	S	3	b	39	95	8	–	–	–	0	0	—
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 26th November

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)	1011.0	-2	NNE	3	c	39	65	7	5	–	–	9+	9+	4000	1	*
Croydon	1011.6	-4	NNE	3	c	38	75	6	5	7	–	7-8	9+	2500	1	*
S. Farnborough	1010.9	-8	NNE	3	c	37	75	7	5	–	–	10	10	2500	1	*
Boscombe Down	1011.4	-6	NNE	3	c	34	85	7	5	–	–	10	10	2500	1	*
Calshot, (S'thmtn)	1010.7	0	N	3	c	38	75	7	5	–	–	9+	9+	1500	1	2
Dungeness	*	*	NE	4	cq	*	*	7	4	–	*	9+	9+	1500	*	3
Lympne	1009.7	-8	NE	3	c	39	65	8	5	–	–	10	10	2500	1	*
Shoeburyness	1010.1	-6	NNE	3	c/pr	38	85	7	9	7	–	9	10	2500	1	*
Felixstowe	1010.9	-4	N	3	c	40	75	7	5	–	–	9+	9+	2500	0	1
Gorleston	1011.8	-6	ENE	4	c	42	75	7	9	–	–	9+	9+	1500	0	4
Cranwell	1013.2	-6	NNW	1	m	34	95	4	5	–	–	10	10	1500	1	*
Birmingham	1013.5	-8	N	2	o	34	95	6	5	–	–	10	10	1500	1	*
Upper Heyford	1013.0	-4	NNE	3	3o	29	95	5	5	3	8	2-3	4-6	4000	4	*
Ross-on-Wye	1013.2	-10	NE	2	3o	35	85	5	5	–	–	9+	9+	1500	1	*
Portland Bill	1009.6	-10	NE	4	bc	38	85	7	4	–	–	4-6	4-6	2500	0	4
Plymouth	1011.0	-4	NE'E	3	b	35	85	8	5	–	–	1	1	5700	1	1
The Lizard	1011.1	-4	N'E	3	bc	33	85	8	4	–	–	2-3	2-3	2500	4	2
Scilly (St. Mary's)	1011.1	-6	E	2	bc	38	85	8	2	–	–	2-3	2-3	2500	0	2
Guernsey	1008.7	-4	E	2	c	42	85	7	8	–	–	7-8	7-8	2500	2	3
Pembroke	1012.5	-6	ENE	2	bc	34	85	7	5	–	–	2-3	2-3	4000	0	1
Holyhead	1014.2	-14	SE'S	3	b	38	95	6	1	–	–	Tr	Tr	4000	1	1
Chester (Sealand)	1014.4	-8	NW	1	m	27	95	4	5	–	–	2-3	2-3	5700	4	*
L'pool (Bidston)	1014.1	-8	NNE	2	b	33	95	6	5	–	–	1	1	2500	5	*
Manchester	1014.2	-4	NE'E	1	m	27	95	4	5	4	–	2-3	2-3	4000	4	*
Harrogate	1014.4	-6	N	1	c	34	95	7	5	3	–	4-6	9	4000	1	*
Spurn Head	1012.9	-2	NE	2	c/pr	40	95	6	3	7	–	4-6	7-8	2500	1	2
Catterick	1014.5	-4	NW'W	2	c	34	95	7	5	–	–	9+	9+	2500	1	*
Tynemouth	1014.4	-8	WNW	2	c/pr	40	85	7	6	–	–	9	9	1500	1	2
Inchkeith	1015.8	-8	SSE	1	bc	37	65	8	5	–	–	2-3	2-3	2500	0	0
Leuchars	1016.3	-10	WNW	1	bc	33	85	6	5	–	–	2-3	2-3	4000	1	*
Renfrew (Abbotts'l)	1015.7	-10	–	0	Fo	23	95	1	5	–	–	10	10	<150	4	*
Eskdalemuir	1015.5	-8	NNE	1	c	31	85	8	5	–	–	9	9	1500	4	
Tiree	1011.9	-14	S	4	c	42	75	7	5	–	–	9	9	2500	0	3
Stornoway	1011.1	-12	SSW	5	c	42	75	7	8	7	–	7-8	9+	1500	1	3
Dalwhinnie	1014.9	-4	SE	3	b	28	95	8	4	–	–	Tr	Tr	4000	5	*
Aberdeen	1015.3	-8	SW	2	c	37	75	7	5	–	–	9+	9+	4000	1	1
Wick	1013.7	-4	SSW	3	bc	39	85	8	1	8	–	2-3	2-3	4000	1	2
Lerwick	1014.6	-4	SSW	4	c	43	75	8	5	2	–	4-6	7-8	1500	0	*
Blacksod Point	1008.7	-18	SE	3	b	41	75	7	–	–	–	0	0	–	0	3
Malin Head	1011.5	-14	E	1	b	33	95	7	5	–	–	1	1	1500	4	0
Aldergrove	1013.3	-10	SE'E	2	c	37	75	7	5	–	–	10	10	4000	1	*
Donaghadee	1013.1	-12	SE	2	c	43	75	7	5	–	–	7-8	7-8	1500	0	1
Birr Castle	1011.6	-12	NE	1	bc	27	95	8	5	–	–	2-3	2-3	2500	4	*
Valentia Obsy.†	1009.4	-16	SE	4	b	42	65	8	5	–	–	1	1	4000	0	?
Roches Point	1011.8	-8	NE	3	c	44	75	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 25th Hrs. (36)
London (Kew)	43	36	31	Tr	–	4.7
Croydon	43	36	33	0.1	Tr	2.3
S. Farnborough	43	33	29	2	–	3.5
Boscombe Down	42	34	31	Tr	–	4.7
Calshot, (S'thmtn)	44	35	30	0.1	–	5.0
Dungeness	45		*	17	0.6	*
Lympne	39	34	33	6	0.3	1.4
Shoeburyness	42	35	34	3	1	1.7
Felixstowe	43	35	34	1	0.1	1.0
Gorleston	44	39	37	3	–	2.1
Cranwell	42	32	30	1	0.6	2.3
Birmingham	42	33	30	Tr	–	3.4
Upper Heyford	41	28	25	0.1	–	*
Ross-on-Wye	42	35	32	0.4	Tr	3.0
Portland Bill	44	36	*	–	–	*
Plymouth	46	35	31	–	–	5.1
The Lizard	46	33	*	–	–	*
Scilly (St. Mary's)	47	38	*	–	–	1.4
Guernsey	45	38	37	–	6	1.7
Pembroke	47	33	*	–	–	5.0
Holyhead	47	36	26	–	–	3.9
Chester (Sealand)	45	25	18	–	–	1.9
L'pool (Bidston)	43	32	28	–	–	3.9
Manchester	44	27	17	–	Tr	*
Harrogate	41	31	23	–	–	2.6
Spurn Head	45	39	*	1	3	2.1
Catterick	42	30	24	–	–	2.5
Tynemouth	46	37	34	–	0.6	*
Inchkeith	42	36	21	–	–	0.2
Leuchars	41	28	21	0.1	–	0.3
Renfrew (Abbotts'l)	41	22	19	–	–	2.4
Eskdalemuir	42	25	17	Tr	–	2.3
Tiree	45	41	38	–	–	0.1
Stornoway	46	42	*	–	–	4.8
Dalwhinnie	37	28	18	–	–	5.6
Aberdeen	43	36	31	–	–	0.2
Wick	45	35	*	–	–	*
Lerwick	45	43	*	–	–	0.1
Blacksod Point	45	39	*	–	–	*
Malin Head	45	32	*	–	–	6.0
Aldergrove	45	35	26	–	–	4.3
Donaghadee	46	39	*	–	–	*
Birr Castle	45	27	14	–	–	3.8
Valentia Obsy.†	48	34	29	Tr	–	5.7
Roches Point	49	38	*	–	–	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations, except Greenwich & Hampstead 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	bc3o	cp0b	bbcc	43	36	31	Tr	–	4.7	*	*	6
Croydon	217	bcmjm	bccprmm	prhcm	43	36	33	0.1	Tr	2.3	*	*	5
Greenwich (Royal Observatory)	149	bc	cr5b	bcrscm	43	35	29	3	Tr	3.9	89	75	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	3.6	*	*	*
Westminster (St. James' Park)	27	*	*	*	44	36	32	Tr		3.5	79	69	*
‡Regent's Pk. (Botanic Gardens)	168	*	*	*	44	35	31	Tr		3.2	82	73	*
Camden Square	110	bbc	ccpc	*	44	35	31	0.3	–	*	*	76	*
Kensington	80	bcp	bc	*	43	36	29	0.2	Tr	2.7	At 18h. 85	68	*
Hampstead Observatory	450	bc	bcp	bm	40	32	27	0.2	–	3.7		81	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 26th

South Kensington Max.	Time.	Min.	Time.	Kew Observatory Max.	Time.	Min.	Time.
0.3	17-21h	<0.3	11-16h 25th, 21/25th-7h 26th	0.2	9h 26th	<0.1	6h. 26th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 25th November Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 26th November 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	1006.7	NNE	4	3o	34	1005.1	N	4	c	36	37	34	0.3	0.4
Brussels	1008.8	NE'N	5	o	34	1007.6	NE'N	4	c	32	36	30	Tr	–
Berlin	1011.0	E	2	c	36	1010.5	ENE	3	3o	34	39	32	–	Tr.
Zurich	1001.6	NNW	2	5o5o	34	1003.1	NE	1	o	32	36	30	5	Tr
Rome	1001.3	S	3	c/pr	50						57		0.2	

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.

† Hr observations are from Valentia W/T station ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 27th November 1933.

No. 26303

OBSERVATIONS at 13h. G.M.T. 26th 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)...	1009.6	-12	N'E	3	c	41	75	6	5	-	-	9	9	2500
	Croydon ...	1010.1	-10	N'E	3	cf	40	75	3	5	3	-	7-8	9+	1500
	S. Farnborough	1009.6	-14	NNE	3	c/r	39	75	6	5	-	-	10	10	2500
	Boscombe Down	1009.9	-18	NNE	3	bc	40	65	8	5	-	-	2·3	2·3	4000
	Calshot, S'thmtn	1009·2	-14	N	4	bc	42	65	7	8	-	-	2·3	2·3	4000
	Dungeness ...	*	*	ENE	4	q	*	*	7	8	-	*	9	9	1500
	Lympne ...	1008.7	-12	ENE	3	ir$_0$	39	65	7	5	-	-	9+	9+	2500
2	Shoeburyness	1009.1	-10	NE'N	3	c/pr	39	95	8	9	2	-	7-8	9+	1500
	Felixstowe ...	1009.5	-12	NE	5	c/ph(r)	42	85	7	8	3	-	7-8	7-8	2500
	Gorleston ...	1010.0	-14	E'N	4	c/ph(r)	43	75	7	9	-	-	9	9	1500
	Cranwell ...	1011·6	-14	N	2	c	40	95	6	8	-	-	9+	9+	1500
3	Birmingham ...	1011·8	-14	N	2	pr	37	85	5	6	-	-	9+	9+	1500
	Upper Heyford	1010·8	-18	NNE	3	c	39	85	6	5	3	-	1	9+	4000
4	Ross-on-Wye ...	1011·3	-10	N'W	2	3$_0$	39	85	5	2	8	-	4-6	4·6	4000
5	Portland Bill...	1009.1	-6	NNE	3	c	43	65	8	4	4	-	4-6	7-8	2500
	Plymouth ...	1009.7	-14	ENE	4	b	42	75	8	7	-	-	Tr.	Tr.	4000
	The Lizard ...	1009.0	-12	NE'N	3	c	42	85	8	4	6	-	7-8	9+	2500
	Scilly (St. Mary's)	1009.1	-14	E	1	bc	47	55	8	1	-	-	2·3	2·3	4000
	Guernsey ...	1008·5	-2	ENE	5	c	45	65	8	8	-	-	9+	9+	2500
6	Pembroke ...	1011·0	-10	E	2	bc	40	75	7	7	8	-	4-6	4-6	4000
7	Holyhead ...	1013.0	-10	E'S	2	c	41	75	7	5	-	-	9	9	5700
	Chester (Sealand)	1012·9	-14	NWW	1	3$_0$	38	85	5	5	-	-	9+	9+	4000
8	L'pool (Bidston)	1012·8	-6	-	0	cf	37	95	3	5	-	-	9+	9+	800
	Manchester	1012.4	-18	ENE	3	of	39	85	3	5	-	-	10	10	4000
9	Harrogate ...	1012·7	-10	N	1	e	38	85	7	6	2	-	9+	10	4000
10	Spurn Head ...	1011.0	-6	ENE	3	c	43	75	7	3	7	-	2·3	7-8	2500
	Catterick ...	1012·8	-14	N	2	c	39	85	7	5	-	-	9+	9+	2500
	Tynemouth ...	1013·2	-14	W	2	o/r	40	85	6	6	-	-	10	10	1500
11	Inchkeith ...	1014.6	-8	SSW	1	c	38	75	6	5	7	-	7-8	9+	1500
	Leuchars ...	1014.9	-14	WNW	1	e	36	85	6	5	-	-	9+	9+	2500
12	Renfrew (Abbotts I.)	1013·9	-18	-	0	bf-	26	95	3	-	-	-	0	0	-
	Eskdalemuir ...	1013.6	-18	-	0	c	35	85	8	5	-	-	9+	9+	2500
13A	Tiree ...	1009.9	-12	S	5	c	44	65	7	8	-	-	9	9	2500
13B	Stornoway ...	1009.7	-10	SSW	6	c	43	75	8	5	6	-	7-8	9	2500
15	Dalwhinnie ...	1013.8	-6	SE	4	b	33	95	8	4	-	-	1	1	4000
	Aberdeen ...	1014.0	-10	S'W	2	bc	41	75	7	8	4	-	4-6	4-6	2500
	Wick ...	1012.6	-6	S	5	bc	40	85	8	1	-	-	2·3	2·3	4000
16	Lerwick ...	1013.4	0	SSW	4	c	43	65	8	5	2	-	7-8	9	1500
17	Blacksod Point	1006·6	-16	SE	5	b	45	65	8	-	-	-	0	0	-
18	Malin Head ...	1009·3	-14	SE	3	b	42	73	7	5	-	-	Tr.	Tr.	2500
	Aldergrove ...	1011·6	-10	ESE	2	c	43	65	8	5	-	-	7-8	7-8	4000
	Donaghadee ...	1012·0	-6	S	1	ir$_0$	42	85	8	9	-	-	9	9	1500
19	Birr Castle ...	(1011.0) [1010.0 in red above]	-16	NE	1	b	43	65	8	-	4	-	0	1	-
20	Valentia Obsy.	1007.0	-18	SSE	4	bc	47	65	8	8	-	5 [red]	4-6	4-6	2500
	Roches Point...	1009.3	-12	SE	4	bc	47	65	8	3	-	-	4-6	4·6	2500

OBSERVATIONS at 18h. G.M.T. 26th November.

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)	1008.6	0	N	1	c/r	39	85	5	5	3	-	7-8	9+	2500	1	*
Croydon	1009.4	-2	NNE	2	pr	37	95	4	5	-	-	9+	9+	1500	1	*
S. Farnborough	1008.7	-2	N	2	c	37	85	6	5	-	-	10	10	2500	1	*
Boscombe Down	1009.3	-4	NNE	2	b	33	95	7	-	3	-	0	Tr.	-	1	*
Calshot, S'thmtn	1008·5	-4	N	3	c	39	75	7	5	3	-	4-6	9+	5700	0	2
Dungeness	*	*	E'N	2	PRS	*	*	6	9	-	*	10	10	1500	*	0
Lympne	1007.7	-2	NNE	3	ph(r)	35	95	6	9	-	-	9+	9+	800	1	*
Shoeburyness	1008·0	-6	NNE	3	pr	37	95	7	9	2 3 [red]	-	7-8	10	1500	1	*
Felixstowe	1008.4	-4	NE'E	4	c/pr	41	75	7	8	-	-	9+	9+	2500	1	3
Gorleston	1009·3	-4	NE'E	5	c	43	75	7	9	-	-	7-8	7-8	2500	0	4
Cranwell	1010·9	-2	NE	1	c	37	95	6	5	-	-	10	10	1500	1	*
Birmingham	1010·2	-2	NNE	2	m	38	95	4	5	-	-	9+	9+	1500	1	*
Upper Heyford	1009.9	-6	N	2	3$_0$	36	95	5	-	3	-	0	9+	-	1	*
Ross-on-Wye	1010.0	-6	N'E	2	m	37	95	4	5	-	-	10	10	800	1	*
Portland Bill	1008·3	-2	NNE	3	b	39	85	8	-	-	-	0	0	-	0	3
Plymouth	1009·2	+2	ENE	3	b	38	75	6	-	3	-	0	1	-	1	1
The Lizard	1007.8	-4	NE	4	bc	43	75	8	2	-	-	4-6	4-6	2500	0	3
Scilly (St. Mary's)	1008·2	-6	E'N	2	c	43	85	7	8	-	-	7-8	7-8	2500	0	1
Guernsey	1007.5	0	NE	3	c	44	65	6	8	-	-	7-8	7-8	2500	1	3
Pembroke	1008·9	-4	ENE	2	bc	39	75	7	5	6	-	4-6	4-6	4000	0	1
Holyhead	1011·6	-2	E	4	c	40	85	5	5	-	-	7-8	7-8	5700	1	1
Chester (Sealand)	1011·1	-4	NNW	1	m	36	85	4	5	-	-	9+	9+	4000	1	*
L'pool (Bidston)	1011·3	-4	-	0	of	37	85	3	5	-	-	10	10	250	0	
Manchester	1010·9	-6	NE'N	2	of	39	85	3	5	-	-	10	10	1500	1	*
Harrogate	1011·6	-6	N	1	c	37	95	5	5	-	-	10	10	4000	1	*
Spurn Head	1010.2	-2	NE	3	c	40	85	8	3	7	-	4-6	7-8	2500	1	2
Catterick	1011·9	0	NNW	1	c	37	95	5	5	-	-	10	10	2500	1	*
Tynemouth	1011·6	-8	SW	2	o	42	75	6	6	-	-	10	10	1500	1	2
Inchkeith	1013·2	-6	E	1	c	39	85	8	5	-	-	9+	9+	1500	0	1
Leuchars	1013.7	-6	NNW	1	c/r	34	95	5	5	-	-	9+	9+	2500	1	*
Renfrew (Abbotts I.)	1012.4	-6	-	0	cf	24	95	2	-	7	-	0	9	-	4	*
Eskdalemuir	1012·2	-6	N'E	1	c	34	95	8	5	-	-	9+	9+	1500	1	*
Tiree	1008.8	-6	S'E [SE'S in red]	6	c	42	85	7	8	1	-	9	9+	2500	0	3
Stornoway	1009.0	+2	S	5	c	43	75	8	8	6	-	7-8	9	2500	1	2
Dalwhinnie	1012·0	-2	SE	5	bc	32	95	8	4	-	-	4-6	4-6	2500	5	*
Aberdeen	1013.0	-6	SW	1	c	35	95	6	5	-	-	7-8	7-8	2500	1	1
Wick	1011.1	0	SSE	5	bc	42	85	8	5	6	-	4-6	4-6	2500	1	3
Lerwick	1013·2	+2	SSW	5	c	43	75	8	5	-	-	9+	9+	1500	0	*
Blacksod Point	1005·2	-6	SE	4	bc	42	75	7	1	6	-	Tr.	4-6	4000	0	3
Malin Head	1008.4	-10	E	2	b	36	95	7	5	-	-	Tr.	Tr.	2500	0	0
Aldergrove	1010·2	-4	ESE	2	c	40	75	8	5	-	-	9+	9+	4000	1	*
Donaghadee	1009.8	-6	S	3	c	44	75	8	5	?	?	7-8	9	1500	0	2
Birr Castle	1007.8	-4	NE	1	bc	37	85	8	3	-	-	2·3	2·3	2500	1	*
Valentia Obsy.	1004·7	-8	SE	4	bc	44	75	8	5	-	-	4-6	4-6	2500	0	3
Roches Point	1007.4	-8	SE	4	c	45	65	8	3	-	-	7-8	7-8	1500	0	3

PAST 24 HOURS.

Stations	Weather 7h.–13h. 26th (37)	Weather 13h.–18h. 26th (38)	Weather 18h. 26th to 1h. 27th (39)	Weather 1h.–7h. 27th (40)
London (Kew)	cm$_0$	cr$_0$cm$_0$	cm$_0$	cm$_0$
Croydon	cmm$_0$prf	cfprcm	cprcm$_0$	com$_0$d$_0$d$_0$
S. Farnborough	c, cr$_0$m	cbccm$_0$	cm$_0$	cm$_0$cr$_0$
Boscombe Down	cbc	bcc bc	bccpr$_0$	bcx
Calshot, S'thmtn	cbc	bccm$_0$c	ccm$_0$	cm$_0$
Dungeness	p	p	*	c
Lympne	cprcr	cprhm$_0$	cphr$_0$d$_0$	od$_0$d$_0$m$_0$
Shoeburyness	cphrq	cpr rr	cpr$_0$	cpr$_0$c
Felixstowe	bcprq	cprh q	cp$_0$q,c	cbc
Gorleston	cpr$_0$q	cq,phr	cphr$_0$	cq
Cranwell	cmcm$_0$	m$_0$cpr	cpr r$_0$	r$_0$b,c
Birmingham	oc	c	cm	cmof
Upper Heyford	cm$_0$x	bccm$_0$	cm$_0$	cxm$_0$
Ross-on-Wye	cm$_0$bc3$_0$	bc3cm	omcof	om
Portland Bill	bcc	cbcb	c	c
Plymouth	b	b b3$_0$	b3$_0$c	cbw
The Lizard	bcc	cbc	bcc	c
Scilly (St. Mary's)	bcbbc	bcc	cp$_0$	cpir$_0$
Guernsey	coirq	cbcc	cpr$_0$	c
Pembroke	bc	bccm bc	c	cbcm$_0$
Holyhead	bbcm$_0$	cbc	bccbcmw	bwxm$_0$
Chester (Sealand)	xcmm$_0$	cm$_0$m	cmf	bcffx
L'pool (Bidston)	xbcmcf	cfomf	if-f	cf
Manchester	bcmcf	cr$_0$of	ocff	cffx
Harrogate	c	c	cod$_0$	cbcd$_0$
Spurn Head	prc	pr$_0$ c	cpr	c
Catterick	c	cm$_0$	cm$_0$w	cm$_0$cr
Tynemouth	coir	oiro	oir	oir
Inchkeith	bcc	c	c	cobc
Leuchars	bcbxcm	cmir$_0$cm	cir$_0$rcm$_0$	cpr$_0$bx
Renfrew (Abbotts I.)	fxfx(rime)	bfxcfx(rime)	ffm$_0$x	cbm$_0$x
Eskdalemuir	cxc	c	c	cx
Tiree	c	c	cir$_0$	c
Stornoway	c	c	bc	bc
Dalwhinnie	b	bc	*	bc
Aberdeen	cpr bc	bccd$_0$	bccir$_0$	circ
Wick	bc	bc	c	cpr
Lerwick	c	c	c	c
Blacksod Point	b	bc		
Malin Head	bc	bc	bcc	cbx
Aldergrove	cbc	c	c	cb
Donaghadee	cir$_0$	cir$_0$c	c	c
Birr Castle	bcb	bbc	bcc	cx
Valentia Obsy.	bbc	bccbc	bcc	c
Roches Point	cbc	bcc	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$_0$, 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. gale.

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 $\frac{1}{20}$ 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.

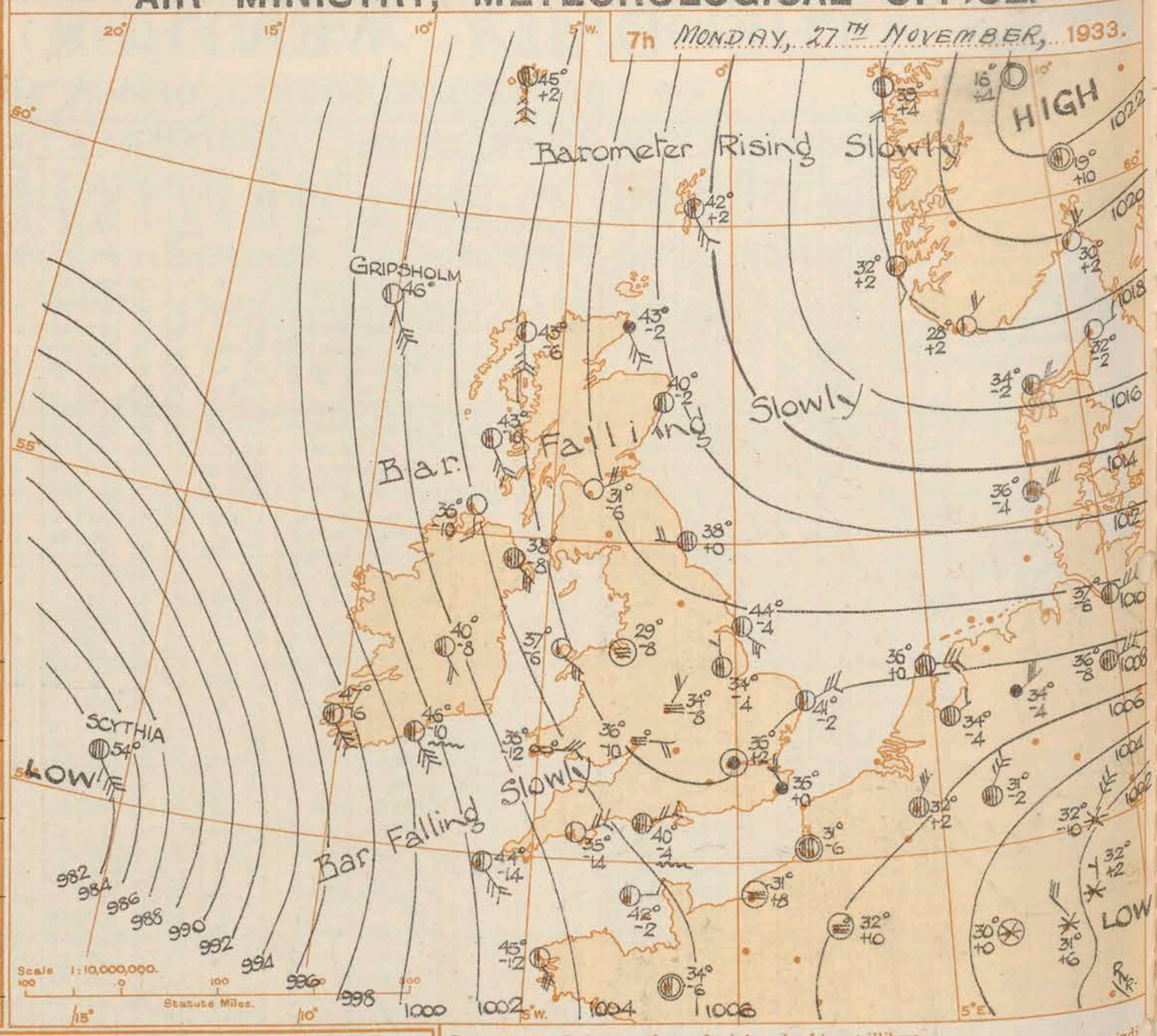
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for Sunday, 26th Nov. 1933.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 25th to 9h. 26th	Temperature. Max. 9h.—17h. 26th	Rainfall. Night. 17h. 25th to 9h. 26th	Rainfall. Day. 9h.—17h. 26th	Sunshine. Sunrise to Sunset. 26th
1	Tunbridge W.	oro	ocor	33	40	3	4	0.5
	Bournemouth	o	obcc	34	43	-	-	2.5
	Ventnor ...	oc	cbco	36	43	-	-	1.4
	Southsea ...	c	bcco	35	43	0.4	-	0.9
	Bognor Regis	cbcc	cbcd	35	42	-	Trace	0.5
	Littlehampton	c	c	34	42	0.2	-	0.3
	Worthing ...	cop	pcbcc	35	40	0.3	0.3	0.6
	Brighton ...	bc	bc	35	41	0.1	-	0.8
	Eastbourne†	cor	oc	35	42	0.3	0.5	1.3
	Hastings† ...	orco	o	35	41	1	0.4	1.2
	Folkestone ...	cbc	bccr	35	42	1	1	1.6
	Dover... ...	cbcc	cphrbc	37	43	0.3	1	2.7
	Deal	cbcc	cor	37	43	1	0.3	2.2
	Ramsgate ...	cbcc	crsc	35	43	0.6	1	1.3
	Margate ...	c	rh	36	42	0.3	3	1.1
2	Southend ...	chpm	cprsm	36	39	2	3	0.1
	Maldon ...	cir	cir	37	40	2	2	0.7
	Clacton-on-Sea	cphc	cphc	35	42	3	1	0.6
	Dovercourt ...	rbc	rbcc	36	43	1	2	1.0
	Lowestoft ...	chfc	c	37	45	Trace	-	3.0
	Skegness ...	o	oro	39	43	1	1	0.1
	Mablethorpe	cphrm	cphrm	38	44	1	0.5	0.0
	Cleethorpes ...	crc	pc	37	43	2	0.5	0.2
3	Leamington S.	omc	cm	34	40	-	-	0.0
4	Cheltenham†	bmbc	cof	27	39	Trace	-	2.7
5	Bath	cbcc	bbcc	36	42	-	-	3.5
	Weymouth ...	b	b	35	44	-	-	7.5
	Jersey ...	rcbc	bcc	36	47	9	Trace	1.8
	Torquay ...	bm	bcb	32	43	-	-	5.6
	Penzance ...	xb	bbc	35	45	-	-	4.9
	St. Ives ...	b	b	35	44	-	-	3.1
	Bude	xb	b	?	42	-	-	6.5
	Ilfracombe ...	b	b	39	42	-	-	6.4
6	Aberystwyth	x3bbc	bbc3	30	42	-	-	6.5
7	Llandudno ...	c	c	28	40	-	-	0.0
	Colwyn Bay...	obco	oco	28	39	-	-	0.0
	Rhyl	xcm	cm	27	38	-	-	0.0
8	Wallasey ...	f	ff	30	38	-	-	0.0
	Southport‖ ...	bbcco	o	28	38	-	-	0.0
	Blackpool ...	co	o	29	38	-	-	0.0
	Morecambe ...	xc	co	31	38	-	-	0.0
9	Ilkley... ...	o	o	31	40	-	-	0.0
10	Berwick-on-T.	cprc	cpro	32	39	1	0.4	0.8
11	Dunbar ...	bcx	bcr	33	41	-	1	0.2
12	Troon... ...	xbc	bbc	29	41	-	-	5.1
	Douglas ...	cb	cb	38	43	-	-	2.2

† 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :— Clear sky. Sky less than 1/10 clouded. Sky 1/10 to 5/10 clouded. Sky 1/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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. 27th. Nov., 1933.
1. S.E. England 2. E. England... 3. E. Midlands	Wind easterly, light or moderate, freshening; cloudy or dull; occasional local rain or sleet; local mist; rather cold.
4. W. Midlands 5. S.W. England ✝ 6. South Wales ✝ 7. North Wales	Wind east or southeast, moderate to fresh or strong, perhaps gale on coast; cloudy or dull; probably rain or sleet later; less cold.
8. N.W. England	As 12 - 13.
9. N Midlands 10. N.E England 11. S.E. Scotland	Wind east or southeast, light or moderate, freshening; cloudy or dull; occasional local rain or sleet; rather cold.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. ✝ / B. N.W. Scotland. ✝	Wind southeast, light to fresh, stronger locally; bright intervals at first, cloud increasing, perhaps rain or sleet later; becoming less cold.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind southeast, moderate or fresh, perhaps strong locally later; cloudy or dull; local rain or sleet showers; rather cold.
17. N.W. Ireland ✝ 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland ✝	Wind southeast, fresh or strong; gale locally on coast; cloudy or dull; some rain; less cold.

GENERAL INFERENCE.

An anticyclone is situated over Scandinavia. A depression over Central Europe tends to spread north, while a deep depression to west of Ireland is likely to move east or southeast. There will be occasional local rain at first in the East, and more general rain will probably occur in the West and Southwest. Conditions will become less cold.

FURTHER OUTLOOK.

Unsettled conditions.

Times of Issue of Gale Warnings.

✝ South cone at 1435 on 26th in districts 13A, 13B, 17 & 20 and at 2210 on 26th in districts 5 and 6.

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

Forecasts issued at 1020 G.M.T.

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

Monday, 27th November 1933.

No. 26303

OBSERVATIONS at 1 hr. G.M.T. 27th November

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)	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	1005.6	-6	ENE	2	3o	36	95	6	5	-	-	10	10	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1007.9	0	E	2	rc	35	95	6	6	-	-	10	10	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1003.4	-6	E'N	4	c	42	95	7	9	-	-	7-8	7-8	2500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1006.4	-6	NE	4	c	39	85	7	5	-	-	10	10	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1006.6	-6	E'N	4	c	44	75	8	4	-	-	9+	9+	2500
	Scilly (St. Mary's)	163	1006.0	-8	E'S	2	c/pr	42	95	7	8	7	-	7-8	9	2500
	Guernsey	175	1006.7	-10	NE	1	c/pr	44	75	6	8	-	-	7-8	7-8	2500
6	Pembroke	142	1008.2	-6	E	3	c	37	95	7	8	5	-	4-6	7-8	4000
7	Holyhead	26	1010.5	-6	SE	2	bc	38	95	5	5	-	-	2-3	2-3	5700
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1009.0	-4	E'S	4	c/pr	42	85	7	3	2	-	4-6	7-8	2500
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	100	1010.7	-8	W	2	o/r	39	85	6	6	-	-	10	10	1500
11	Inchkeith	190	1011.7	-6	ENE	2	c	39	85	8	5	-	-	9+	9+	2500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts'D)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1009.6	+2	S	5	bc	42	75	8	8	7	-	2-3	4-6	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1011.3	-2	SSE	4	c	43	85	8	8	1	-	7-8	9+	2500
16	Lerwick	54	1014.1	+4	SSW	5	c	42	75	8	5	-	-	9+	9+	1500
17	Blacksod Point	18	1004.0	-6	SE	4	b	39	75	7	-	-	-	0	0	—
18	Malin Head	52	1006.9	-6	S'E	2	c	36	95	7	8	-	-	9+	9+	1500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1000.1	-26	SE	5	c	45	95	8	8	-	-	9	9	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 27th November

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)	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)	1007.8	+2	NE'N	2	c	37	75	6	5	-	-	9+	9+	2500	1	*
	Croydon	1008.4	+2	-	0	d.d.	36	95	4	6	-	-	10	10	450	1	*
	S. Farnborough	1007.5	0	ENE	1	fg	35	95	6	5	-	-	10	10	~~2500~~ 800	1	*
	Boscombe Down	1007.1	-2	NE	2	c	34	95	7	5	-	-	9+	9+	1500	4	*
	Calshot (S'thmtn)	1005.8	0	NE'N	3	c	38	85	6	5	-	-	7-8	7-8	4000	0	1
	Dungeness	*	*	E	1	c	*	*	6	9	-	*	9+	9+	1500	*	0
	Lympne	1007.6	0	NNW	2	d.d.	35	95	6	5	-	-	10	10	1500	1	*
2	Shoeburyness	1007.5	+2	NE	1	c/pr	37	85	7	5	2	-	9	9+	800	1	*
	Felixstowe	1007.8	+2	N'E	2	c	39	75	7	5	-	-	7-8	7-8	2500	0	2
	Gorleston	1007.8	-2	NE'E	4	c	41	85	7	8	-	-	9+	9+	2500	0	3
	Cranwell	1003.7	-4	N	1	c	34	95	5	5	2	-	7-8	9+	2500	1	*
3	Birmingham	1008.8	-8	NE	2	of	34	95	3	5	-	-	10	10	1500	1	*
	Upper Heyford	1008.5	-4	NNE	2	3o	32	95	5	5	2	-	7-8	9+	2500	4	*
4	Ross-on-Wye	1008.1	-10	E	2	m	36	95	4	6	-	-	10	10	800	1	*
5	Portland Bill	1006.1	-4	E'N	4	c	40	85	7	5	-	-	10	10	2500	0	4
	Plymouth	1004.9	-14	ENE	4	b	35	95	8	5	-	-	Tr	Tr	5700	0	0
	The Lizard	1004.7	-8	E	5	c	45	65	8	8	-	-	9+	9+	4000	1	3
	Scilly (St. Mary's)	1002.3	-14	SE	5	c/fg	44	95	7	8	-	-	7-8	7-8	2500	1	3
	Guernsey	1005.5	-7	E	1	c	42	75	8	8	-	-	7-8	7-8	4000	0	2
6	Pembroke	1004.8	-12	E	4	3o	36	95	6	8	-	-	4-6	4-6	2500	0	2
7	Holyhead	1003.1	-6	E'S	3	b	37	85	6	-	3	-	0	1	-	1	0
	Chester (Sealand)	1008.8	-8	-	0	cf	29	95	7	5	-	6	7-8	9	2500	4	*
8	L'pool (Bidston)	1008.4	-6	ENE	2	cf	35	95	2	5	-	-	9+	9+	450	0	*
	Manchester	1008.8	-4	E'N	3	bcf	36	85	3	6	-	2	Tr	2-3	1500	4	*
9	Harrogate	1009.7	-6	NNW	1	bc	33	95	5	5	3	-	1	2-3	2500	1	*
10	Spurn Head	1008.3	-4	E'S	3	c	44	85	8	3	7	-	7-8	9+	4000	0	2
	Catterick	1009.9	-6	NW'N	1	bc	34	95	5	5	-	-	4-6	4-6	4000	1	*
	Tynemouth	1010.4	0	W	2	o/r	38	85	6	6	-	-	10	10	1500	1	2
11	Inchkeith	1010.8	-2	SE	1	c	38	85	8	5	-	-	9	9	2500	0	1
	Leuchars	1011.2	-2	WNW	1	c	34	95	6	7	-	-	7-8	7-8	2500	1	*
12	Renfrew (Abbotts'D)	1009.8	-6	ENE	2	3o	31	95	5	-	-	-	0	0	-	4	*
	Eskdalemuir	1010.4	0	N	2	c	31	95	8	5	-	-	9	9	1500	4	*
13A	Tiree	1006.4	-10	ESE	5	c	43	75	7	5	7	-	4-6	9+	2500	0	3
13B	Stornoway	1008.4	-6	S	5	bc	43	55	8	5	4	-	2-3	4-6	2500	1	2
15	Dalwhinnie	1010.0	-4	SE	1	bc	34	95	8	4	-	-	4-6	4-6	2500	5	*
	Aberdeen	1011.1	-2	S'W	2	c	40	85	7	5	-	-	9	9	2500	1	1
	Wick	1010.8	-2	SSE	5	pr	43	95	8	8	1	-	7-8	9	2500	1	3
16	Lerwick	1013.8	+2	S'E	4	c	42	75	8	5	2	-	4-6	9	1500	0	*
17	Blacksod Point	1001.5	-14	SE	4	bc	38	85	7	4	-	-	2-3	2-3	800	0	3
18	Malin Head	1005.4	-10	S	1	b	36	85	7	5	-	-	1	1	1500	4	0
	Aldergrove	1006.7	-8	ESE	3	c	38	75	8	5	-	-	10	10	2500	1	*
	Donaghadee	1006.6	-20	SSE	4	c	44	65	7	5	-	-	9	9	1500	0	3
19	Birr Castle	1002.9	-8	SE	2	c	40	75	8	5	-	-	9+	9+	2500	1	*
20	Valentia Obsy.†	997.2	-16	SE	6	c	47	65	8	5	-	-	9+	9+	2500	0	-
	Roches Point	1001.8	-10	SE	6	c	46	65	8	3	-	-	7-8	7-8	1500	0	5

PAST 24 HOURS.

Division	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 26th Hrs. (36)
1	London (Kew)	41	36	32	0.2	-	0.1
	Croydon	40	35	33	1	0.5	0.3
	S. Farnborough	42	34	29	Tr	Tr	0.5
	Boscombe Down	41	30	28	-	Tr	2.2
	Calshot (S'thmtn)	43	36	31	-	-	1.2
	Dungeness	44	36	*	3	1	*
	Lympne	40	33	32	3	0.4	0.9
2	Shoeburyness	41	35	31	3	0.5	0.2
	Felixstowe	43	37	36	2	0.3	0.6
	Gorleston	44	39	38	1	0.5	0.9
	Cranwell	41	33	31	Tr	0.4	0.0
3	Birmingham	38	33	30	Tr	-	0.0
	Upper Heyford	39	32	26	-	-	*
4	Ross-on-Wye	40	35	33	-	-	3.1
5	Portland Bill	43	36	*	-	-	*
	Plymouth	43	35	31	-	-	7.1
	The Lizard	45	42	*	-	-	*
	Scilly (St. Mary's)	48	41	*	-	3	7.1
	Guernsey	45	41	36	3	Tr	0.4
6	Pembroke	46	35	*	-	-	6.1
7	Holyhead	41	35	26	-	-	4.9
	Chester (Sealand)	38	26	23	-	-	0.0
8	L'pool (Bidston)	37	34	31	-	-	0.0
	Manchester	40	32	25	Tr	-	*
9	Harrogate	38	32	25	-	0.2	0.1
10	Spurn Head	44	40	*	0.6	Tr	0.2
	Catterick	39	34	30	-	0.5	0.0
	Tynemouth	42	37	32	4	6	*
11	Inchkeith	40	35	28	-	-	0.0
	Leuchars	37	32	28	Tr	0.5	1.0
12	Renfrew (Abbotts'D)	26	22	20	-	-	0.0
	Eskdalemuir	36	30	26	-	-	0.0
13A	Tiree	44	40	38	-	Tr	2.1
13B	Stornoway	44	41	*	-	-	0.0
15	Dalwhinnie	34	30	24	-	-	3.7
	Aberdeen	42	34	33	0.1	1	2.3
	Wick	42	40	*	-	2	*
16	Lerwick	45	41	*	-	-	0.1
17	Blacksod Point	45	37	*	-	—	*
18	Malin Head	42	32	*	-	-	6.6
	Aldergrove	44	35	31	-	-	2.2
	Donaghadee	45	40	*	0.3	-	*
19	Birr Castle	43	33	25	-	-	6.0
20	Valentia Obsy.†	48	43	40	-	-	4.9
	Roches Point	47	44	*	-	-	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich & Hampstead 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	cm	cr.cm	cm	41	36	32	0.2	-	0.1	*	*	3
Croydon	217	cm.mpcf	cf.pr.cm	cpr.cm.d.d.	40	35	33	1	0.5	0.3	*	*	2
Greenwich (Royal Observatory)	149	cpm	cd.rm	cd.d.m	40	35	29	0.5	Tr	0.0	86	89	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park)	27	*	*	*	41	37	31	0.4		0.0	76	88	*
‡Regents Pk. (Botanic Gardens)	168	*	*	*	41	35	28	Tr		0.1	77	91	*
Camden Square	110	c	ccp	*	41	35	28	Tr	-	*	*	90	*
Kensington	80	bc	bcm	*	40	35	29	Tr	0.1	0.0	At 18h. 87	85	*
Hampstead Observatory	450	bc	or	bp	39	32	26	0.1	0.1	0.3	*	94	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 27th

South Kensington. Max.	Time.	Min.	Time.	Kew Observatory. Max.	Time.	Min.	Time.
0.3	10-13h + 20-21h 26th	<0.3	14-17h 26th + 22h 26th & 6h 27th	0.4	21h 26th	0.1	3h 27th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 26th November Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 27th November 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	1005.1	N	3	o	34	1005.8	-	0	m	32	36	30	0.1	-
Brussels						1006.6	NNE	3	o	32		32	-	-
Berlin	1011.1	SE	4	d.d.	36	1008.2	ESE	4	d.d.	36	36	34	Tr	Tr
Zürich						1002.7	WNW	2	c	30		30		5
Rome	995.5	S	3	id.	52						57		20	

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 ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 28th November 1933.

No. 26·304

OBSERVATIONS at 13h. G.M.T. 27th 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)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)	Sunshine 26th Hrs. (36)
1	London (Kew)	1008·5	-4	-	0	f	40	95	2	5	-	-	10	10	<150	0·1
	Croydon	1008·6	-2	-	0	3	40	85	4	5	-	-	9+	9+	4000	0·3
	S. Farnborough	1008·1	-4	E	3	3	41	75	4	5	-	-	Tr.	Tr.	2500	0·5
	Boscombe Down	1007·4	-6	E	2	bc	40	75	6	1	-	-	2-3	2-3	2500	2·2
	Calshot, S'thmtn	1007·5	-2	ENE	4	3o	42	75	6	7	-	-	4-6	4-6	4000	1·2
	Dungeness	*	*	N'W	1	c	*	*	6	8	-	*	9+	9+	1500	*
	Lympne	1008·3	0	E'N	1	c	39	75	7	5	-	-	10	10	2500	0·9
2	Shoeburyness	1008·0	-2	ENE	1	c	42	75	7	5	-	-	10	10	4000	0·2
	Felixstowe	1008·2	-4	N'E	2	c	42	75	7	5	-	-	10	10	2500	0·6
	Gorleston	1009·0	-2	NE	4	c	42	75	6	4	-	-	9+	9+	2500	0·9
	Cranwell	1009·4	-2	SSE	1	c	42	75	6	5	3	-	9	9	4000	0·0
3	Birmingham	1008·7	0	SE	2	c	38	85	5	-	3	-	0	9+	-	0·0
	Upper Heyford	1008·8	-6	ESE	1	3o	40	85	6	5	3	-	1	2-3	4000	*
4	Ross-on-Wye	1008·0	-4	E	3	3o	40	75	6	1	-	-	Tr.	Tr.	4000	3·1
5	Portland Bill	1006·0	-2	E	4	rr	42	95	7	5	-	-	10	10	1500	*
	Plymouth	1005·3	-2	NE	4	c	41	85	7	7	-	-	9	9	4000	7·1
	The Lizard	1003·3	-10	E	5	c	48	65	8	8	7	1	4-6	7-8	2500	*
	Scilly (St. Mary's)	1001·3	-6	SE'S	5	c	48	65	7	8	7	2	2-3	7-8	2500	7·1
	Guernsey	1006·2	-2	S	3	bc	44	65	8	8	8	-	4-6	4-6	2500	0·4
6	Pembroke	1004·3	-4	ESE	3	q	44	65	6	5	-	-	4-6	4-6	2500	6·1
7	Holyhead	1008·2	-6	SE'E	4	bzo	44	65	6	2	-	-	Tr.	Tr.	4000	4·9
	Chester (Sealand)	1009·3	-4	ESE	1	m	35	95	4	5	-	-	9	9	4000	0·0
8	L'pool (Bidston)	1009·2	0	E'S	1	m	38	95	4	5	3	-	2-3	9	800	0·0
	Manchester	1008·8	-2	SE'E	3	m/f	42	75	4	6	-	-	4-6	4-6	4000	*
9	Harrogate	1009·6	0	NW	1	c	38	95	5	5	3	-	4-6	9+	2500	0·1
10	Spurn Head	1008·8	0	ESE	4	c/pr	44	75	7	3	7	-	4-6	7-8	2500	0·2
	Catterick	1009·8	-6	NW	1	m	40	95	4	8	-	-	9	9	2500	0·0
	Tynemouth	1009·8	-6	SE	3	bc/r	45	85	8	9	-	-	4-6	4-6	1500	*
11	Inchkeith	1011·2	0	E	1	c	44	75	8	5	4	-	4-6	7-8	2500	0·0
	Leuchars	1011·9	+2	ESE	3	bc	45	85	8	8	3	-	4-6	4-6	2500	1·0
12	Renfrew (Abbotts I.)	1010·3	+2	E'N	1	cf	36	95	3	-	3	-	0	3+	-	0·0
	Eskdalemuir	1010·2	-4	NE'E	2	c	36	95	7	5	-	-	9+	9+	1500	0·0
13A	Tiree	1007·4	0	SE'S	5	bc	44	75	6	8	4	-	4-6	4-6	2500	2·1
13B	Stornoway	1009·1	+2	SSE	4	bc	45	65	9	8	6	1	1	4-6	4000	0·0
15	Dalwhinnie	1011·3	0	SE	2	bc	38	75	8	4	2	-	4-6	4-6	1500	3·7
	Aberdeen	1012·3	+4	SE	2	cjp	43	75	7	9	3	-	7-8	7-8	1500	2·3
	Wick	1011·7	+2	S	4	c	44	85	8	8	7	-	7-8	7-8	1500	*
16	Lerwick	1014·6	+4	S'E	4	c/r	41	85	9	5	2	-	4-6	7-8	1500	0·1
17	Blacksod Point	1000·3	-14	SE	5	bc	43	75	7	2	-	-	4-6	4-6	800	*
18	Malin Head	1005·6	0	E'S	4	3o	43	85	6	2	-	-	1	1	1500	6·6
	Aldergrove	1006·8	-2	ESE	4	pr	42	75	8	8	-	-	9+	9+	2500	2·2
	Donaghadee	1007·8	-4	SE	4	bc	45	65	8	8	3	-	2-3	4-6	2500	*
19	Birr Castle	1002·9	-10	SE	4	b	43	65	8	-	4	-	0	1	-	6·0
20	Valentia Obsy.	996·6	-6	ESE	5	c	49	85	8	8	7	-	4-6	7-8	2500	4·9
	Roches Point	1001·4	-10	SE	6	c	47	85	7	3	-	-	7-8	7-8	1500	*

OBSERVATIONS at 18h. G.M.T. 27th 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)	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)	1009·8	+12	NNE	2	3	41	75	4	5	-	-	9+	9+	2500	1	*
	Croydon	1009·7	+10	ENE	2	3	39	85	4	5	-	-	10	10	2500	1	*
	S. Farnborough	1009·5	+12	E'S	2	bf	33	95	2	-	-	-	0	0	-	4	*
	Boscombe Down	1008·9	+14	E	3	b	34	85	5	-	-	-	0	0	-	0	*
	Calshot, S'thmtn	1008·6	+8	NE'E	3	3o	40	75	6	5	-	-	9	9	2500	0	3
	Dungeness	*	*	N	1	c	*	*	6	5	-	*	9+	9+	1500	*	0
	Lympne	1009·4	+8	N'W	2	id	38	85	5	5	-	-	10	10	2500	1	*
2	Shoeburyness	1009·2	+6	N	1	ir	39	85	7	5	-	-	9	9	2500	1	*
	Felixstowe	1009·3	+6	N	3	c/r	39	95	6	5	-	-	9+	9+	2500	1	1
	Gorleston	1009·6	+8	ENE	4	o	41	85	7	5	-	-	10	10	2500	0	3
	Cranwell	1011·0	+12	-	0	c	39	85	6	5	-	-	10	10	2500	1	*
3	Birmingham	1010·2	+6	E	2	b	37	75	5	-	-	-	0	0	-	1	*
	Upper Heyford	1010·4	+12	ENE	2	3o	34	95	6	-	-	-	0	0	-	1	*
4	Ross-on-Wye	1009·2	+10	E'N	1	m	33	85	4	-	-	-	0	0	-	1	*
5	Portland Bill	1007·5	+10	SE	4	c	45	75	7	4	-	-	9	9	2500	1	4
	Plymouth	1005·5	+10	ESE	4	c	43	75	7	5	-	-	9+	9+	2500	0	2
	The Lizard	1003·1	+6	E'S	5	c	46	65	8	8	4	-	4-6	7-8	2500	0	3
	Scilly (St. Mary's)	1001·0	0	SE'E	6	c	48	65	7	8	6	2	4-6	9	2500	1	4
	Guernsey	1007·1	+12	SSE	2	bc	42	75	8	8	-	-	4-6	4-6	2500	0	2
6	Pembroke	1005·7	+4	ESE	4	q	44	75	7	8	6	-	4-6	7-8	2500	0	2
7	Holyhead	1009·5	+10	E	3	b	38	85	6	-	-	-	0	0	-	1	1
	Chester (Sealand)	1010·1	+6	SE'E	1	bF	28	95	1	-	-	-	0	0	-	4	*
8	L'pool (Bidston)	1010·1	-4	E'S	3	bf	37	95	3	-	-	-	0	0	-	0	
	Manchester	1010·4	+8	E'S	2	cf	37	85	2	-	3	-	0	9+	-	1	*
9	Harrogate	1011·2	+6	-	0	m	38	95	4	5	-	-	10	10	<150	1	*
10	Spurn Head	1010·5	+6	ENE	2	pr	43	85	8	3	2	-	7-8	10	2500	1	2
	Catterick	1012·0	+14	-	0	m	36	95	4	4	-	-	10	10	4000	1	*
	Tynemouth	1011·4	+6	S	2	c	43	85	6	5	-	-	7-8	7-8	1500	1	2
11	Inchkeith	1011·8	+6	E	1	bc	41	85	8	5	-	-	2-3	2-3	4000	0	1
	Leuchars	1013·1	+6	NE	1	b/r	40	95	6	5	-	-	1	1	1500	1	*
12	Renfrew (Abbotts I.)	1010·8	+12	E'S	1	bf	38	95	3	-	-	-	0	0	-	1	*
	Eskdalemuir	1011·9	+12	NE	2	bc	33	95	7	5	-	-	4-6	4-6	2200	1	*
13A	Tiree	1008·5	+4	SE'E	5	c	43	75	6	5	3	-	4-6	9+	2500	0	4
13B	Stornoway	1010·5	+6	SSE	4	bc	44	65	8	7	-	-	2-3	2-3	4000	1	8
15	Dalwhinnie	1011·6	+8	E'N	1	c	36	95	8	4	-	-	7-8	7-8	800	0	
	Aberdeen	1013·4	+4	SE	3	ir	44	85	7	9	-	-	9+	9+	1500	1	2
	Wick	1013·5	+10	S	4	c	45	85	8	5	1	-	4-6	7-8	2500	1	2
16	Lerwick	1016·4	+10	S'E	4	pr	42	85	7	8	2	-	9	10	800	0	*
17	Blacksod Point	1000·4	+2	ESE	6	c	44	75	7	7	-	-	9	9	800	0	4
18	Malin Head	1006·3	+6	SE	3	b	39	95	7	5	-	-	1	1	1500	0	1
	Aldergrove	1007·7	+6	ESE	4	c	40	65	8	5	-	-	7-8	7-8	4000	1	*
	Donaghadee	1008·3	+4	SE	4	q	45	65	7	8	3	-	4-6	4-6	2500	0	3
19	Birr Castle	1003·6	+6	SE	4	c	41	75	8	5	-	-	9+	9+	2500	0	*
20	Valentia Obsy.	996·9	+10	SE'E	5	c	49	65	8	5	1	-	4-6	9+	2500	0	3
	Roches Point	1001·0	+6	SE	7	c	48	85	7	3	-	-	7-8	7-8	1500	0	6

PAST 24 HOURS.

District	Stations.	Weather. 7h.–13h. 27th (37)	13h.–18h. 27th (38)	18h. 27th to 1h. 28th (39)	1h.–7h. 28th (40)
1	London (Kew)	ofgof	ofcm	cm	mcm
	Croydon	om dfcm	cm m	cm Φ	odmmw
	S. Farnborough	cr idcfbc	bcbfx	bfxcfbf	cfx
	Boscombe Down	cbcm	bm	bx	ofx
	Calshot, S'thmtn	cbcm bm	bcm cm	cm bcb	bbcmcm
	Dungeness	c	c		o
	Lympne	cd m c	cd m	ed m	odd cm
2	Shoeburyness	c	cir	cir	cir c
	Felixstowe	bcc	cr m	cm c	c
	Gorleston	cgc	cor o	oir c	co
	Cranwell	cm	cm	cm r	cm
3	Birmingham	fmc	cbc	bm	bmcf
	Upper Heyford	cxm	bcbx	bx m	b cm
4	Ross-on-Wye	cmbz	bz	bmcmbmx	bmxbcf
5	Portland Bill	cir	+cc	cc	cc
	Plymouth	bxb-c	bcpr c	c	c b
	The Lizard	c	c	cq	cq
	Scilly (St. Mary's)	cip	c	cp	c
	Guernsey	cbc	bc	bcc	bc
6	Pembroke	bcqm	bccqm	cqm c	com c
7	Holyhead	bxm 3o	bz	bm x	bm x
	Chester (Sealand)	xfcf	bfbcf	bfx cf	bfx cf
8	L'pool (Bidston)	cfcm	cmbff	bfcmx	xc cm
	Manchester	cfbcz	bzcfx	cffx	cff
9	Harrogate	bccir	comir	mcc	coc
10	Spurn Head	prc	cpr	cpr	cpr
	Catterick	bccmpr	cm	cm	cmr
	Tynemouth	cirm	bcc	cir circ	circ
11	Inchkeith	c	cprbc	bcc	circ
	Leuchars	bcxm c	cpr r R	bxm cir	cPR pr
12	Renfrew (Abbotts I.)	bffx	cbff	bfcm	cm
	Eskdalemuir	cxc	cbc	bcc	cir
13A	Tiree	cjp	bcc	c	c
13B	Stornoway	bc	bc	bcc	c
15	Dalwhinnie	bc	bc	*	bc
	Aberdeen	cpr	cprjir	cir R	c
	Wick	cprc	c	cprc	cpr
16	Lerwick	cir	cpr	cbc	bcc
17	Blacksod Point	bz	cbc	cbc	c
18	Malin Head	3	bccjp	bcz3o	3
	Aldergrove	cb3	c	c	cbc
	Donaghadee	cbc	bcq	bcq	bccq
19	Birr Castle	cb	c	c	c
20	Valentia Obsy.	cbccy	cye	cprc	c cir
	Roches Point	cirzc	cirzc	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/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. Φ lunar halo. ⚡ gale

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.

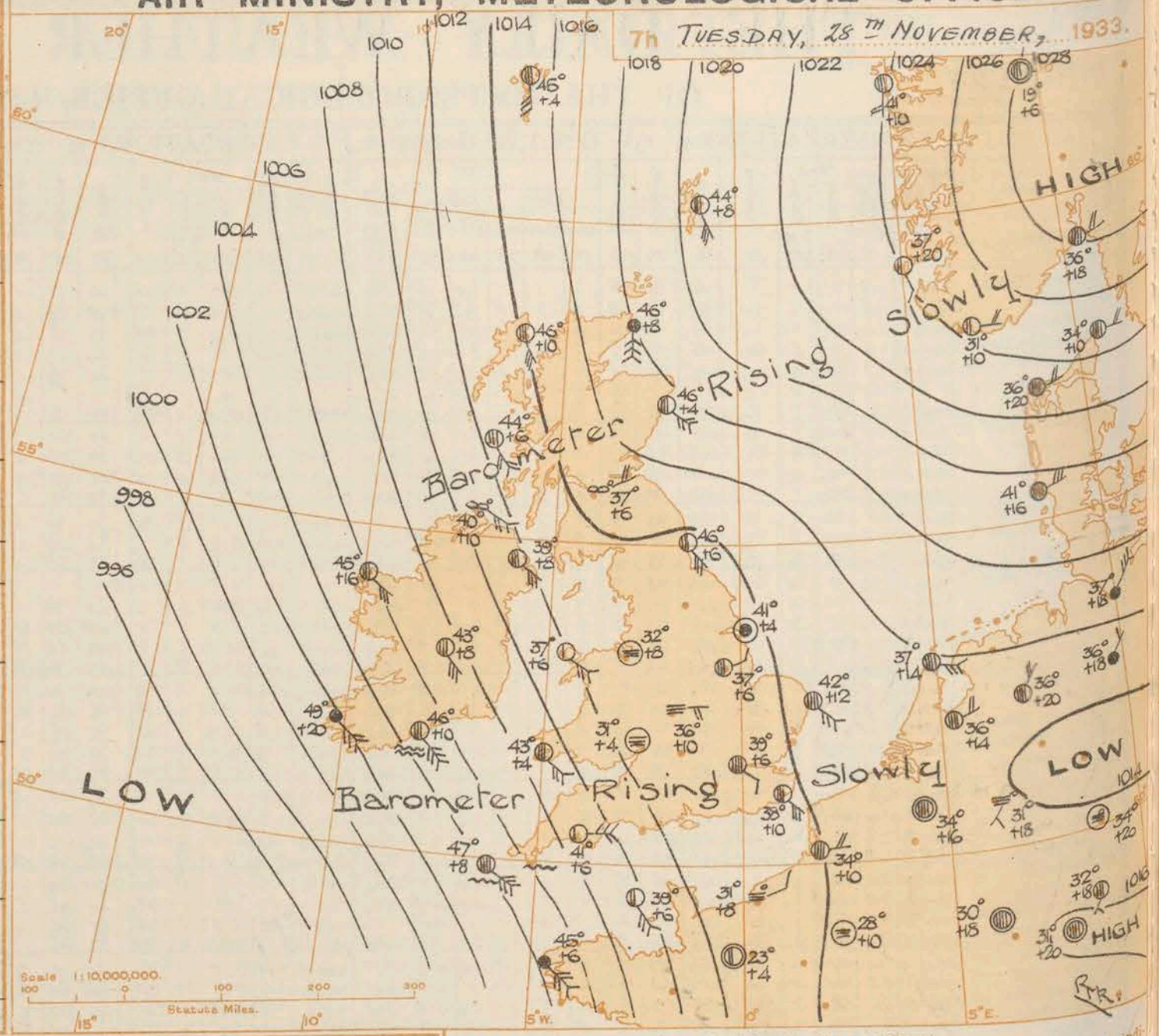
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for 27th November 1933.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	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.	ofm	om	33	40	2	-	0·0
	Bournemouth	bbdm	odm	30	40	-	0·3	1·5
	Ventnor ...	opo	opo	36	42	Trace	Trace	0·0
	Southsea ...	bmb	b'bom	35	44	-	-	3·4
	Bognor Regis	bbcc	cbcc	36	42	-	-	2·6
	Littlehampton	bc	bc	34	41	1	-	0·3
	Worthing ...	co	c	35	41	0·3	-	0·0
	Brighton ...	bc	bc	35	41	Trace	-	0·0
	Eastbourne†	o	oc	35	39	Trace	-	0·0
	Hastings† ...	o	o	35	41	0·3	-	0·0
	Folkestone ...	ors	co	36	40	0·5	Trace	0·1
	Dover... ...	o	oors	37	42	1	Trace	0·0
	Deal	o	o	37	42	1	-	0·0
	Ramsgate ...	c	c	36	42	0·3	-	0·0
	Margate ...	c	c	38	43	Trace	-	0·0
2	Southend ...	ofc	cors f	36	41	2	Trace	0·1
	Maldon ...	c	co	36	41	2	-	0·0
	Clacton-on-Sea	oc	co	37	42	0·4	-	0·0
	Dovercourt ...	dbcc	oc	38	42	0·3	-	0·0
	Lowestoft ...	cpro	cd oc	38	42	0·5	Trace	0·0
	Skegness ...	o	ogo	37	44	7	Trace	0·2
	Mablethorpe	cbcms	cms	37	45	Trace	-	1·1
	Cleethorpes ...	oc	co	39	45	0·5	-	0·8
3	Leamington S.	ocbc	bcb	34	42	-	-	2·6
4	Cheltenham†	bcxms	cbcbm	31	38	-	-	3·6
5	Bath	bcb	b	30	42	-	-	6·2
	Weymouth ...	cbcb	cgrc	33	44	-	1	1·7
	Jersey ...	rcbc	b bc	38	45	1	-	6·3
	Torquay ...	bs,x	bcr kpc	30	47	-	1	0·9
	Penzance ...	c	bc	38	50	-	-	2·2
	St. Ives ...	b	b	39	48	-	-	1·3
	Bude	xbcb	b	29	49	-	-	6·2
	Ilfracombe ...	b	b	34	43	-	-	7·1
6	Aberystwyth	xs bc	bcs	31	41	-	-	5·3
7	Llandudno ...	b	b	33	43	-	-	5·2
	Colwyn Bay...	xobcb	b	31	42	-	-	5·0
	Rhyl	xfbbc	bcbms	31	43	-	-	3·1
8	Wallasey ...	ff	f	34	40	-	-	0·0
	Southport‖ ...	cbm	bcbcs	32	38	-	-	0·0
	Blackpool ...	o	c	33	41	-	-	0·0
	Morecambe ...	cbcc	bccbc	32	43	-	-	1·4
9	Ilkley... ...	o	o	31	40	-	-	0·0
10	Berwick-on-T.	bcprs	oPRb	33	44	3	3	2·3
11	Dunbar ...	bcfyx	bcrbcp	36	44	Trace	1	2·5
12	Troon... ...	bcxb	bccm	32	43	-	-	1·4
	Douglas ...	xcbc	cbcq	38	43	-	-	1·5

† Max. Temp. for per' 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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :— Clear sky. Sky less than 1/10 clouded. Sky 1/10 to 5/10 clouded. Sky 5/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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. 28th. Nov., 1933.

Districts.	Forecasts
1. S.E. England 2. E. England...	Wind east or southeast, light or moderate; dull or cloudy; local showers near East Coast; local mist inland; rather cold.
3. E. Midlands 4. W. Midlands	Wind easterly, light; dull or cloudy, local mist or fog; rather cold.
5. S.W. England ↓ 6. South Wales ↓	Wind southeast, fresh or strong locally; mainly cloudy; perhaps drizzle or rain in Cornwall; rather cold in most places.
7. North Wales 8. N.W. England	Wind southeast, light or moderate; cloudy, perhaps bright intervals locally; local fog or mist; rather cold.
9. N Midlands	As 3 - 4.
10. N.E England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Wind southeast, light or moderate; cloudy, local showers; local mist inland; rather cold.
13. { A. W Scotld. B. N W. Scotland.	Wind southeast, moderate or fresh; cloudy, perhaps bright intervals locally; rather low temperature.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind southeast or south, moderate or fresh; cloudy, local showers; rather low or moderate temperature.
17. N.W. Ireland 18. N.E. Ireland	Wind southeast, moderate or fresh; mainly cloudy; rather cold.
19. S.E. Ireland 20. S.W. Ireland ↓	Wind southeast, fresh or strong; cloudy, local drizzle or rain; rather low or moderate temperature.

GENERAL INFERENCE.

An anticyclone centred over the Baltic Area is spreading west and a depression to southwest of the British Isles is filling up. Wind will be between east and south, and weather mainly dull or cloudy, with local showers near the East Coast, and perhaps occasional rain or drizzle in the extreme Southwest.

FURTHER OUTLOOK.

Similar in the Southeast; a depression south of Greenland may effect the Northwest.

Times of issue of Gale Warnings.

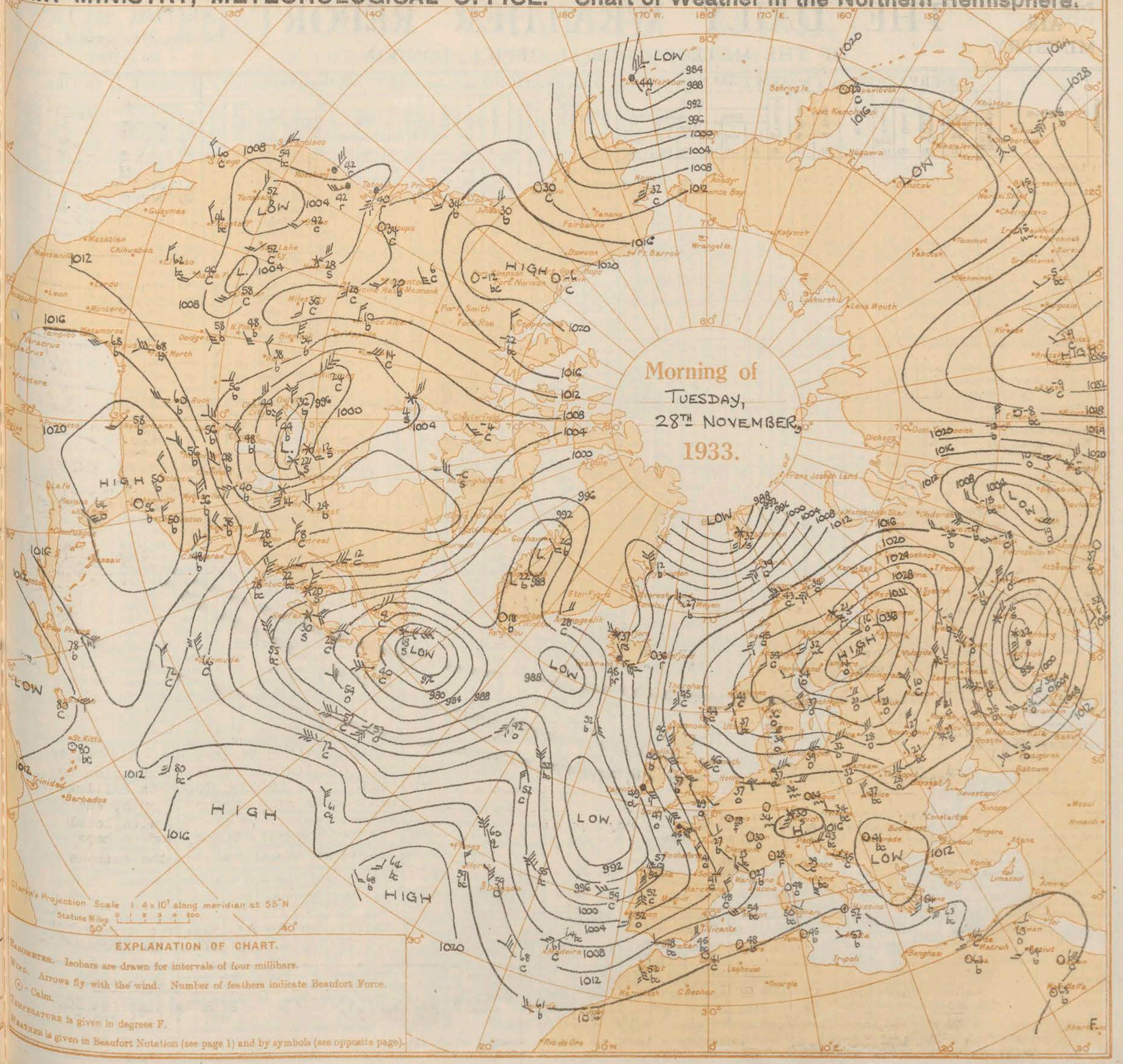
↓ South cone at 1435 on 26th in district 20 and at 2210 on 26th in districts 5 and 6.

Forecasts issued at 1010 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, 28th November 1933.

No. 26.304

OBSERVATIONS at 1 hr. G.M.T. 28th November

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	1011.2	+6	-	0	3o	37	95	5	5	-	-	10	10	800
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1011.3	+10	E	2	id.	39	95	5	5	-	-	10	10	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1012.1	+10	E'N	3	c	41	95	7	5	-	-	10	10	1500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1008.9	+2	SE SW	4	c	45	75	7	4	-	-	10	10	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1004.3	+4	ESE	7	q	45	75	7	4	-	-	9+	9+	4000
	Scilly (St. Mary's)	163	1002.3	+2	SE'E	6	c	47	75	7	8	-	-	9	9	2500
	Guernsey	175	1009.0	+10	SE	4	bc	40	75	7	8	1	-	4-6	4-6	2500
6	Pembroke	142	1007.6	+6	ESE	4	q	44	75	6	5	6	-	7-8	7-8	1500
7	Holyhead	26	1011.2	+10	SE'S	2	b	35	85	6	-	-	1	0	Tr	-
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1011.7	+4	SE'S	1	pr	44	95	7	3	7	-	4-6	9	4000
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	100	1012.8	0	SE	3	c	45	75	8	6	-	-	7-8	7-8	1500
11	Inchkeith	190	1014.0	+8	E	3	c	42	85	8	5	3	-	4-6	9+	2500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts L)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1012.7	+8	SSE	3	c	45	65	8	8	6	-	4-6	9	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1015.6	+2	S	5	c	46	85	8	8	2	-	7-8	9+	1500
16	Lerwick	54	1016.3	+4	S'E	3	bc	43	75	8	5	-	-	2-3	2-3	1500
17	Blacksod Point	18	1004.3	+6	ESE	5	c	44	75	7	-	7	-	0	10	-
18	Malin Head	52	1008.8	+10	E'S	4	3o	42	85	6	8	-	-	7-8	7-8	1500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	998.3	+14	SE	5	c	(45)	95	8	8	-	-	10	10	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 28th 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)	1013.3	+8	E'N	2	c	40	85	5	5	-	-	10	10	2500	1	*
	Croydon	1013.2	+6	E'S	1	3o	39	95	5	5	-	-	10	10	1500	1	*
	S. Farnborough	1012.8	+8	ENE	1	of	36	95	3	5	-	-	10	10	4000	1	*
	Boscombe Down	1012.2	+10	E'S	3	f	33	95	2	5	-	-	10	10	<150	4	*
	Calshot (S'thmtn)	1011.9	+8	ENE	2	3o	39	85	6	5	-	-	10	10	1500	0	3
	Dungeness	*	*	E'S	2	c	*	*	7	5	-	*	9+	9+	1500	*	1
	Lympne	1013.5	+10	E'S	3	c	38	85	6	8	-	-	10	10	1500	1	*
2	Shoeburyness	1013.6	+12	SSW	1	pr	40	95	7	5	3	-	9	10	800	1	*
	Felixstowe	1014.0	+10	E	2	c	42	75	7	5	-	-	10	10	2500	0	1
	Gorleston	1014.0	+12	ESE	4	o	42	75	7	5	-	-	10	10	1500	0	2
	Cranwell	1014.0	+6	ENE	1	c	37	95	6	5	7	-	4-6	9+	5700	1	*
3	Birmingham	1013.6	+10	E	2	of	36	95	3	5	-	-	10	10	1500	1	*
	Upper Heyford	1013.4	+10	NE	3	3o	35	95	5	5	2	-	7-8	10	800	1	*
4	Ross-on-Wye	1012.6	+4	-	0	bcf	31	95	3	5	-	-	4-6	4-6	4000	4	*
5	Portland Bill	1010.1	+10	SE	4	c	45	75	7	4	-	-	7-8	7-8	2500	1	4
	Plymouth	1008.7	+6	E	5	b	41	75	7	5	-	-	1	1	2500	0	3
	The Lizard	1006.0	+6	E'S	7	q	46	75	8	5	1	-	7-8	9+	2500	0	4
	Scilly (St. Mary's)	1004.1	+8	SE'E	6	c	47	75	7	5	-	-	10	10	2500	1	4
	Guernsey	1009.6	+6	SSE	4	bc	39	75	7	5	-	-	4-6	4-6	4000	0	3
6	Pembroke	1008.1	+4	ESE	4	q	43	85	7	5	-	-	9+	9+	2500	0	3
7	Holyhead	1012.1	+6	E'S	4	b	37	75	6	-	3	-	0	1	-	4	1
	Chester (Sealand)	1013.7	+8	-	0	of	32	95	3	5	-	-	10	10	2500	4	*
8	L'pool (Bidston)	1013.6	+8	ESE	2	m	37	95	4	5	-	-	10	10	1500	0	*
	Manchester	1013.3	+6	E'S	2	of	39	95	3	5	-	-	10	10	1500	1	*
9	Harrogate	1013.4	+6	-	0	o	37	95	5	5	-	-	10	10	2500	1	*
10	Spurn Head	1013.6	+4	-	0	pr	41	95	7	3	7	-	4-6	9+	2500	1	1
	Catterick	1014.3	+6	-	0	m	38	95	4	5	-	-	10	10	4000	1	*
	Tynemouth	1013.6	+6	SE	3	c	46	75	8	6	-	-	7-8	7-8	1500	1	2
11	Inchkeith	1015.2	+2	E	2	c	42	85	8	8	7	-	7-8	10	2500	1	1
	Leuchars	1015.9	+4	E	3	pr	44	75	8	9	7	-	9	9+	1500	1	*
12	Renfrew (Abbotts L)	1014.9	+6	E'N	2	3o	37	95	5	5	7	-	9+	10	4000	1	*
	Eskdalemuir	1014.6	+4	ENE	3	c/r	37	95	6	5	-	-	10	10	450	1	*
13A	Tiree	1012.2	+6	SE'S	5	c	44	75	6	5	7	-	9	9+	2500	0	3
13B	Stornoway	1013.7	+10	SSE	3	c	46	75	8	4	6	-	4-6	7-8	2500	1	1
15	Dalwhinnie	1015.4	+6	SW	1	bc	39	95	7	4	-	-	4-6	4-6	1500	1	*
	Aberdeen	1016.7	+4	SE'E	5	c	46	75	7	8	-	-	9	9	2500	1	3
	Wick	1018.1	+8	S	6	pr	46	85	8	9	2	-	7-8	9	1500	1	3
16	Lerwick	1020.1	+8	S'E	3	c	44	75	8	8	1	-	4-6	7-8	1500	0	*
17	Blacksod Point	1006.8	+16	ESE	3	c	45	75	7	-	7	-	0	10	-	0	3
18	Malin Head	1010.7	+10	E'S	4	3o	40	85	6	5	-	-	1	1	1500	0	1
	Aldergrove	1011.5	+8	E'S	3	c	39	75	7	5	-	-	7-8	7-8	4000	1	*
	Donaghadee	1012.0	+8	S	4	q	45	65	7	9	-	-	7-8	7-8	1500	0	3
19	Birr Castle	1007.8	+8	SE	3	c	43	85	8	5	-	-	9+	9+	2500	0	*
20	Valentia Obsy.†	1001.6	+20	ESE	5	id.	49	85	6	5	-	-	10	10	1500	1	-
	Roches Point	1005.1	+10	SE	6	c	46	85	7	3	-	-	7-8	7-8	1500	0	6

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 27.4 Hrs. (36)
1	London (Kew)	42	38	32	-	-	0.0
	Croydon	41	36	32	0.1	-	0.0
	S. Farnborough	42	27	20	Tr.	Tr.	2.5
	Boscombe Down	42	31	28	-	Tr.	3.3
	Calshot (S'thmtn)	43	36	31	-	-	2.9
	Dungeness	41	36	*	Tr.	0.1	*
	Lympne	39	37	36	Tr.	0.2	0.0
2	Shoeburyness	43	39	37	Tr.	0.2	0.0
	Felixstowe	42	38	37	0.1	-	0.0
	Gorleston	43	41	39	0.2	0.2	0.0
	Cranwell	42	36	32	-	0.1	0.6
3	Birmingham	41	34	21	-	-	1.8
	Upper Heyford	42	32	23	-	-	*
4	Ross-on-Wye	41	29	18	-	-	5.1
5	Portland Bill	45	42	*	3.0	—	*
	Plymouth	44	39	37	Tr.	-	5.0
	The Lizard	49	45	*	-	-	*
	Scilly (St. Mary's)	49	45	*	1	Tr.	2.6
	Guernsey	44	39	33	-	-	2.7
6	Pembroke	45	42	*	-	-	4.8
7	Holyhead	44	35	27	-	-	7.0
	Chester (Sealand)	37	24	17	-	-	0.2
8	L'pool (Bidston)	38	32	30	-	-	0.0
	Manchester	43	34	24	Tr.	-	*
9	Harrogate	39	34	28	1	-	0.0
10	Spurn Head	44	41	*	0.3	1	1.0
	Catterick	40	32	30	0.6	Tr.	0.1
	Tynemouth	45	42	36	2	3	*
11	Inchkeith	45	40	32	Tr.	0.1	3.1
	Leuchars	45	33	26	1	3	1.5
12	Renfrew (Abbotts L)	39	33	27	0.1	-	0.0
	Eskdalemuir	37	32	29	-	0.4	0.7
13A	Tiree	44	41	38	-	-	2.2
13B	Stornoway	45	43	*	-	-	4.1
15	Dalwhinnie	38	36	30	-	-	0.5
	Aberdeen	44	42	41	5	6	0.2
	Wick	45	43	*	1	3	*
16	Lerwick	44	40	*	0.2	-	0.8
17	Blacksod Point	44	41	*	-	-	*
18	Malin Head	43	38	*	-	-	3.3
	Aldergrove	44	36	31	Tr.	-	2.2
	Donaghadee	46	43	*	-	-	*
19	Birr Castle	43	40	35	-	-	2.2
20	Valentia Obsy.†	49	47	45	-	Tr.	1.6
	Roches Point	49	44	*	1	-	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich & Hampstead 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	ofgof	ofcm	cmcm	42	38	32	-	-	0.0	*	*	4
Croydon	217	omdfcm	cmm	cmtwdm	41	36	32	0.1	-	0.0	*	*	6
Greenwich (Royal Observatory)	149	cm	cm.	crom	41	38	34	-	0.3	0.0	81	93	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park)	27	*	*	*	42	38	36	-		0.0	69	87	*
Regents Pk. (Botanic Gardens)	168	*	*	*	41	37	35	-		0.0	73	83	*
Camden Square	110	c	c	*	41	38	34	-	0.3	*	*	94	*
Kensington	80	cog	com	*	41	39	33	Tr.	Tr.	0.0	At 18h. 69	89	*
Hampstead Observatory	450	c	c	bcp	39	35	30	-	0.2	0.0	*	99	*

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 27th November Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 28th November 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	1009.5	-	0	c	36	1014.1	-	0	bf	28	37	28	-	-
Brussels	1007.2	N	2	o	34	1014.4	-	0	o	34	32	34	Tr.	0.5
Berlin	1008.4	ENE	5	sh	36	1015.9	E'S	3	m	34	37	32	Tr.	3
Zürich	1009.0	WNW	3	sf	30	1015.4	NNE	1	o	30	36	30	1	0.2
Rome						-	S	3	bc	-		36		0.2

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 28th

South Kensington Max.	Time	Min.	Time	Kew Observatory Max.	Time	Min.	Time
1.0	9-10h. 27th	<0.3	22h. 27th to 7h. 28th	1.9	14h. 27th	0.3	2h. 28th

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. ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday 29th November 1933.

No. 26,305

OBSERVATIONS at 13h. G.M.T. 28th 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)...	1016·0	+4	E'S	2	o	41	75	5	5	-	-	10	10	450
	Croydon ...	1015·7	+6	ESE	3	3o	40	75	6	5	-	-	10	10	2500
	S. Farnborough	1015·4	+6	E'S	3	m	40	85	4	5	-	-	10	10	2500
	Boscombe Down	1014·1	-2	E	3	o	38	95	6	5	-	-	10	10	800
	Calshot, S'thmtn	1014·3	+6	NE'E	4	3o	43	75	6	5	-	-	10	10	2500
	Dungeness ...	*	*	E	3	c	*	*	7	5	-	*	9+	9+	1500
	Lympne ...	1016·6	+10	ESE	3	c	37	75	6	5	-	-	10	10	1500
2	Shoeburyness	1016·5	+10	SE	2	c	40	85	7	5	-	-	10	10	1500
	Felixstowe ...	1016·8	+6	E'S	3	c	42	75	7	5	2	-	9	10	2500
	Gorleston ...	1017·2	+8	E'S	4	o	42	85	7	5	-	-	10	10	1500
	Cranwell ...	1016·9	+6	ESE	2	c	39	85	6	5	-	-	10	10	2500
3	Birmingham ...	1015·6	+10	ESE	3	m	39	85	4	5	-	-	10	10	1500
	Upper Heyford	1015·9	+8	E	2	3o	39	95	5	5	-	-	10	10	2500
4	Ross-on-Wye ...	1014·4	+6	E	2	m	40	85	4	5	-	-	10	10	2500
5	Portland Bill...	1011·1	-2	E	5	c	46	65	7	4	-	-	7-8	7-8	2500
	Plymouth ...	1010·6	+2	E	6	bc	44	65	7	7	-	9	2-3	2-3	2500
	The Lizard ...	1007·8	0	E	7	q	47	75	8	4	6	1	2-3	4-6	4000
	Scilly (St. Mary's)	1005·5	+6	SE'E	6	c	48	75	6	5	-	-	7-8	7-8	2500
	Guernsey ...	1011·4	0	SE	3	bc	41	75	7	7	1	-	2-3	2-3	4000
6	Pembroke ...	1010·8	+4	ESE	4	q	44	75	6	5	7	-	4-6	9+	4000
7	Holyhead ...	1014·3	+2	E'S	3	3o	44	75	6	-	-	8	0	1	-
	Chester (Sealand)	1016·0	+8	-	0	m	37	95	4	5	-	-	9+	9+	4000
8	L'pool (Bidston)	1015·9	0	E	3	of	41	75	3	5	-	-	10	10	800
	Manchester	1016·2	+10	SE	2	m	42	75	4	5	-	-	10	10	2500
9	Harrogate ...	1017·1	+10	SE	1	iro	39	95	5	6	7	-	7-8	9+	2500
10	Spurn Head ...	1016·7	+6	SE'S	3	c/pr	42	95	7	5	7	-	4-6	9+	2500
	Catterick ...	1017·2	+10	SE'E	1	c	40	95	6	5	-	-	9+	9+	1500
	Tynemouth ...	1016·9	+10	SSE	3	c	43	75	7	9	-	-	7-8	7-8	1500
11	Inchkeith ...	1017·2	+8	E	1	c	46	75	8	8	6	-	4-6	7-8	2500
	Leuchars ...	1017·8	+4	E	2	c/pr	46	85	8	9	-	-	7-8	7-8	1500
12	Renfrew (Abbotsl)	1016·3	+6	E'S	3	m/f	45	75	4	5	-	-	9	9	4000
	Eskdalemuir ...	1016·4	+6	ESE	3	c	41	85	7	5	-	-	10	10	800
13A	Tiree ...	1014·7	+4	SE'S	4	c	45	75	8	8	7	-	9	9	2500
13B	Stornoway ...	1016·3	+8	SSE	4	c	47	75	8	8	6	-	4-6	7-8	1500
15	Dalwhinnie ...	1017·7	+8	SE	2	iro	40	95	8	4	2	-	7-8	10	800
	Aberdeen ...	1018·4	+6	SE'E	5	cjp	47	75	7	9	9	-	4-6	7-8	1500
	Wick ...	1019·0	0	SE	6	pr	47	85	8	8	2	-	7-8	9	1500
16	Lerwick ...	1022·1	+8	S'E	4	c/pr	45	75	7	8	7	-	4-6	7-8	1500
17	Blacksod Point	1009·1	+6	ESE	3	c	45	85	7	-	4	-	0	7-8	-
18	Malin Head ...	1012·4	0	E'S	4	3o	44	85	6	7	-	-	9	9	1500
	Aldergrove ...	1013·6	-2	ESE	3	3o	43	65	6	5	-	-	9+	9+	4000
	Donaghadee ...	1014·3	+8	S	3	c	45	65	8	5	-	-	9	9	1500
19	Birr Castle ...	1010·3	+14	SE	4	c	45	75	7	1	-	7	1	10	2500
20	Valentia Obsy.	1005·4	~~+8~~ +10	ESE	5	c	50	75	8	6	2	-	7-8	9	1500
	Roches Point...	1008·6	+8	SE	6	c	49	75	7	3	-	-	9	9	1500

OBSERVATIONS at 18h. G.M.T. 28th 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)...	1018·0	+14	E'S	4	o	39	75	6	5	-	-	10	10	1500	1	•
	Croydon ...	1017·9	+12	E'S	4	c	38	75	6	5	-	-	10	10	1500	1	•
	S. Farnborough	1017·6	+18	E'S	3	o	37	75	6	5	-	-	10	10	1500	1	•
	Boscombe Down	1016·5	+18	E	3	o	37	75	6	5	-	-	10	10	1500	1	•
	Calshot, S'thmtn	1016·1	+18	NE	4	c	40	75	6	5	-	-	10	10	2500	0	2
	Dungeness ...	*	*	E	3	c	*	*	5	8	-	*	10	10	1500	*	2
	Lympne ...	1018·7	+18	ESE	3	3o	37	75	6	5	-	-	10	10	1500	1	*
2	Shoeburyness	1018·1	+10	ESE	3	c	40	75	7	5	-	-	10	10	1500	1	*
	Felixstowe ...	1018·7	+12	E	4	c	42	75	7	5	-	-	10	10	2500	0	3
	Gorleston ...	1019·6	+10	ESE	4	o	43	85	7	5	-	-	10	10	1500	0	3
	Cranwell ...	1019·1	+14	ESE	2	c	39	85	6	5	-	-	10	10	2500	1	*
3	Birmingham ...	1017·7	+14	E	2	c	39	85	5	5	-	-	10	10	2500	1	*
	Upper Heyford	1017·8	+18	E	3	3o	38	85	6	5	-	-	10	10	1500	1	*
4	Ross-on-Wye ...	1017·0	+16	E	2	m	40	85	4	5	-	-	10	10	800	1	•
5	Portland Bill...	1013·5	+10	E'S	5	c	45	75	7	5	-	-	10	10	2500	0	4
	Plymouth ...	1011·6	+10	E	5	bc	44	75	8	5	-	-	2-3	2-3	1500	0	3
	The Lizard ...	1010·0	+20	E	7	q	47	75	7	4	2	-	7-8	10	2500	0	4
	Scilly (St. Mary's)	1007·5	+24	ESE	6	c	48	85	5	5	-	-	9+	9+	2500	0	4
	Guernsey ...	1012·3	+10	SE	5	bc	42	75	7	-	1	1	0	2-3	-	0	3
6	Pembroke ...	1013·8	+12	ESE	4	q	44	85	6	5	-	-	9	9	2500	0	3
7	Holyhead ...	1015·6	+14	SE'E	3	b	40	85	5	-	-	1	0	Tr.	-	1	1
	Chester (Sealand)	1017·6	+18	SE'E	3	m	40	85	4	5	-	-	9+	9+	2500	1	*
8	L'pool (Bidston)	1017·3	+14	E	4	3o	40	85	5	5	-	-	10	10	1500	0	
	Manchester	1018·4	+18	SE	4	m	41	85	4	5	-	-	10	10	1500	1	•
9	Harrogate ...	1019·1	+14	SE	2	o	39	95	5	5	-	-	10	10	2500	1	*
10	Spurn Head ...	1018·7	+8	E'S	4	c	43	85	8	-	2	-	0	10	-	0	3
	Catterick ...	1019·5	+16	ESE	1	c	39	95	6	5	-	-	10	10	2500	1	•
	Tynemouth ...	1018·5	+16	SSE	3	o	45	65	8	6	-	-	10	10	1500	1	2
11	Inchkeith ...	1018·6	+18	E	1	c	43	85	7	5	3	-	4-6	7-8	2500	0	2
	Leuchars ...	1019·2	+14	E	2	c/pr	43	85	7	8	-	-	7-8	7-8	2500	1	*
12	Renfrew (Abbotsl)	1017·6	+12	ESE	2	of	42	85	3	5	-	-	10	10	4000	1	*
	Eskdalemuir ...	1018·7	+16	ESE	4	c	39	75	7	5	-	-	10	10	1500	1	*
13A	Tiree ...	1015·6	+12	SSE	4	c	46	85	7	8	2	-	9	10	1500	0	3
13B	Stornoway ...	1017·0	+4	SSE	3	c	47	75	8	8	6	-	4-6	7-8	1500	1	1
15	Dalwhinnie ...	1019·2	+10	SE	1	c	40	85	8	4	-	-	7-8	7-8	800	1	
	Aberdeen ...	1020·2	+12	SSE	4	bc	45	85	7	8	-	-	4-6	4-6	2500	1	3
	Wick ...	1019·6	+6	SE	5	c/pr	46	95	8	9	1	-	7-8	9+	1500	1	3
16	Lerwick ...	1023·3	+4	S'E	5	pr	44	85	7	8	1	-	7-8	9	1500	1	*
17	Blacksod Point	1010·7	+12	E	3	bc	43	85	7	-	4	-	0	4-6	-	0	3
18	Malin Head ...	1014·5	+14	E'S	3	3o	42	75	6	5	-	-	9+	9+	1500	0	1
	Aldergrove ...	1015·4	+14	ESE	3	3o	42	65	6	5	-	-	9+	9+	2500	1	*
	Donaghadee ...	1015·7	+6	SE	3	c	45	55	7	5	-	-	7-8	7-8	1500	0	2
19	Birr Castle ...	~~1013·6~~ 1010·8	~~+6~~ +10	SE	4 [2]	c	41 [5]	75	8	5	-	-	9+	9+	2500	0	*
20	Valentia Obsy.	1006·6	+12	ENE	5	c	49	75	8	6	-	-	7-8	7-8	1500	0	5
	Roches Point...	1009·8	+10	SE	6	c	48	75	7	3	-	-	9	9	1500	0	6

PAST 24 HOURS. WEATHER.

District	Stations	7h.-13h. 28th (37)	13h.-18h. 28th (38)	18h 28th to 1h. 29th (39)	1h.-7h. 29th (40)
1	London (Kew)...	om3o	o3o	cmo	bcmo
	Croydon ...	cmo	cmo	cmo	cm bm
	S. Farnborough	cofidoom	om omo	omo cm	cmo
	Boscombe Down	ofxomo	omo	omo	omo
	Calshot, S'thmtn	idomcmo	bmo	c	c
	Dungeness ...	c	c	*	bc
	Lympne ...	cdoomo	cmo	cbcomo	cbecmo
2	Shoeburyness	ciroc	c	c	c
	Felixstowe ...	c	c	c	c
	Gorleston ...	o	oq	oq	oq
	Cranwell ...	cmo	cmo	cdomo	cmo
3	Birmingham ...	fmc	mc	c	c
	Upper Heyford	cmo	cmo	cmo	cmo
4	Ross-on-Wye ...	cmbccm	om	omcmo	cmo
5	Portland Bill...	c	c	c	c
	Plymouth ...	bbc	bc	bcb	b, c
	The Lizard ...	cqbcq	bcqc	coq	oq prc
	Scilly (St. Mary's)	c	c	cro ro	iro po
	Guernsey ...	bc	bc	bcc	cbc
6	Pembroke ...	cqmo	cqmoc	bcqmo	cqmoc
7	Holyhead ...	bx3o	b3omo	bmx	bmxbcxmo
	Chester (Sealand)	offcm	cm	cmmo	co3o
8	L'pool (Bidston)	mfo	ofo	o	oq
	Manchester	cff3	co3	omcmo	cmo
9	Harrogate ...	ociro	coiro	oc	oc
10	Spurn Head ...	cpr	co	opro	oc
	Catterick ...	cmidocmo	cmo	cmo	omo
	Tynemouth ...	ciroc	ciro	o	o
11	Inchkeith ...	c	c	c pro	c
	Leuchars ...	cpro prbc	pro prpro	bcprc	c cro
12	Renfrew (Abbotsl)	cff	cmiroff	cf mo	cmo
	Eskdalemuir ...	cidoc	cpdoc	c	c
13A	Tiree ...	c	c	c	c
13B	Stornoway ...	c	c	c	c
15	Dalwhinnie ...	ir	ir	*	c
	Aberdeen ...	cpr	cprhbc	bccrr	crido
	Wick ...	cpr	cpr	cprc	c
16	Lerwick ...	cpr	cpr	cpr	cq
17	Blacksod Point	cbc	cbc	prc	cq
18	Malin Head ...	3	3	3 ♉	3
	Aldergrove ...	c3o	c3o	c	c
	Donaghadee ...	c	c	cq	cq
19	Birr Castle ...	c	c	cbc	bcc
20	Valentia Obsy.	cidoc	cbcc	c cido	c, roro
	Roches Point...	c	c	ciro	oR orr

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. gale.

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.

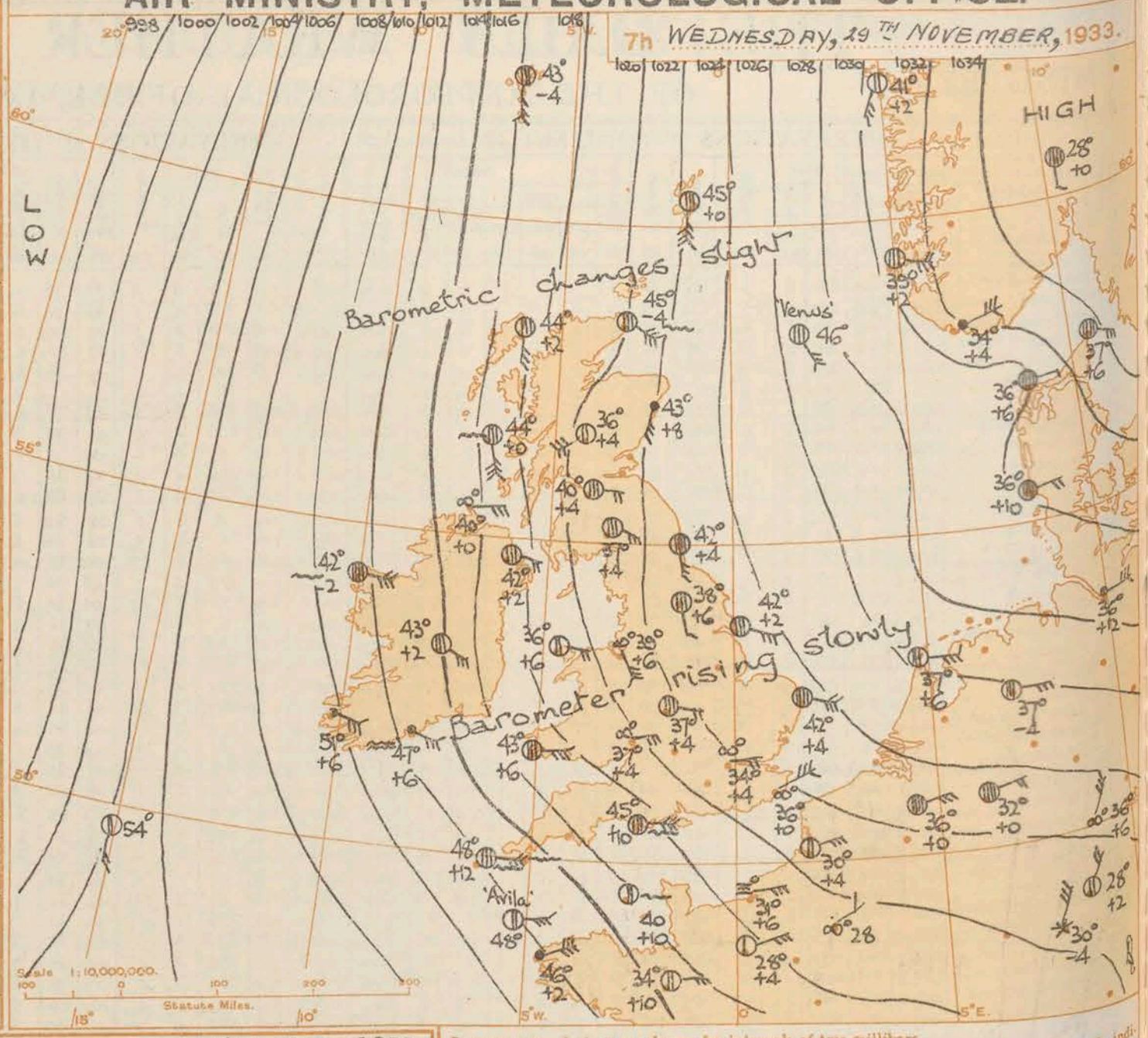
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for 28th NOVEMBER 1933.

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.	omo	o	36	39	-	-	0·0
	Bournemouth	mocom	om	32	43	-	-	0·2
	Ventnor ...	ou	ou	40	44	-	-	0·0
	Southsea ...	omo	oom	35	40	-	-	0·0
	Bognor Regis	o	o	35	43	-	-	0·0
	Littlehampton	c	c	32	41	Trace	-	0·0
	Worthing ...	o	o	35	42	-	-	0·0
	Brighton ...	bc bc	bc	35	42	Trace	-	0·0
	Eastbourne†	o	o	37	43	0·1	-	0·0
	Hastings† ...	o	o	38	41	0·1	-	0·0
	Folkestone ...	o	o	38	40	Trace	-	0·0
	Dover... ...	o	o	39	41	Trace	-	0·0
	Deal	o	o	39	42	-	-	0·0
	Ramsgate ...	o	o	39	41	-	-	0·0
	Margate ...	c	c	40	41	Trace	-	0·0
2	Southend ...	om	o	38	40	1	-	0·0
	Maldon ...	o	o	39	41	0·3	-	0·0
	Clacton-on-Sea	oq	oq	39	42	Trace	-	0·0
	Dovercourt ...	ot	ot	39	43	-	-	0·0
	Lowestoft ...	c	c	40	42	Trace	-	0·0
	Skegness ...	o	o	38	43	4	Trace	0·0
	Mablethorpe	om.	om.	38	43	1	-	0·0
	Cleethorpes ...	mogr.	oge	38	43	1	Trace	0·0
3	Leamington S.	o	o	28	41	-	-	0·0
4	Cheltenham†	bcxmc	coe	32	40	-	Trace	0·9
5	Bath	mc	c	30	42	-	-	0·0
	Weymouth ...	c	b	37	47	-	-	2·2
	Jersey ...	bcb	bc	37	42	-	-	6·6
	Torquay ...	bqbc	cq	40	46	-	-	2·2
	Penzance ...	ccb	bcbc	40	49	-	-	3·2
	St. Ives ...	c	bc	42	47	-	-	2·4
	Bude	xbb	bb	33	48	-	-	7·1
	Ilfracombe ...	b	bbc	36	47	-	-	5·1
6	Aberystwyth	xzbc	bbcz	33	42	-	-	6·5
7	Llandudno ...	cbc	bm.	33	43	-	-	2·7
	Colwyn Bay...	ccobc	bcbbc	28	42	-	-	5·0
	Rhyl	omsc	bcbz.	30	42	-	-	0·2
8	Wallasey ...	f	f	34	43	-	-	0·0
	Southport‖ ...	fo	o	32	41	-	-	0·0
	Blackpool ...	o	o	34	41	0·2	-	0·0
	Morecambe ...	c	cco	36	43	-	-	0·0
9	Ilkley... ...	fdoc	o	33	41	Trace	Trace	0·0
10	Berwick-on-T.	cpro	pro	38	47	1	0·2	0·8
11	Dunbar ...	bcro	bcro	37	47	4	1	2·6
12	Troon... ...	bcxbx	cocom	35	45	-	-	0·2
	Douglas ...	cq	cq	41	44	-	-	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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— 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. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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 Nov., 1933.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Wind east or southeast, moderate; fair; rather cold, local frost at night.
5. S.W. England 6. South Wales	Wind east or southeast, moderate or fresh, strong locally; cloudy, bright intervals locally; occasional rain in Cornwall; rather cold, local frost at night.
7. North Wales 8. N.W. England 9. N. Midlands	Wind southeast, moderate; cloudy, bright periods; rather cold, frost locally at night.
10. N.E England 11. S.E. Scotland	Wind southeast or south, moderate or fresh; cloudy, some bright intervals; rather cold, local frost inland at night.
12. S.W. Scotland & Isle of Man	As 6 - 9.
13. A. W Scotld. B. N.W. Scotland	Wind southerly, fresh or strong, perhaps gale locally on coast later; cloudy, bright periods; perhaps occasional rain later; rather cold.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind southeast or south, fresh or strong, perhaps gale locally later; cloudy, local showers; moderate or rather low temperature.
17. N.W. Ireland 18. N.E. Ireland	Wind southeast or south, moderate or fresh, perhaps increasing; cloudy, bright periods: perhaps occasional rain tomorrow; rather cold.
18. S.E. Ireland 20. S.W. Ireland	Wind southeast, fresh; cloudy, occasional rain; moderate temperature.

GENERAL INFERENCE.

A large anticyclone centred east of the Baltic is moving south, while a large deep depression south of Greenland is moving northeast. Weather will be rather cold and mainly cloudy, with occasional local rain or showers in the extreme Southwest and Northeast. Winds will be between east and south, strong locally in the North and Southwest.

FURTHER OUTLOOK.

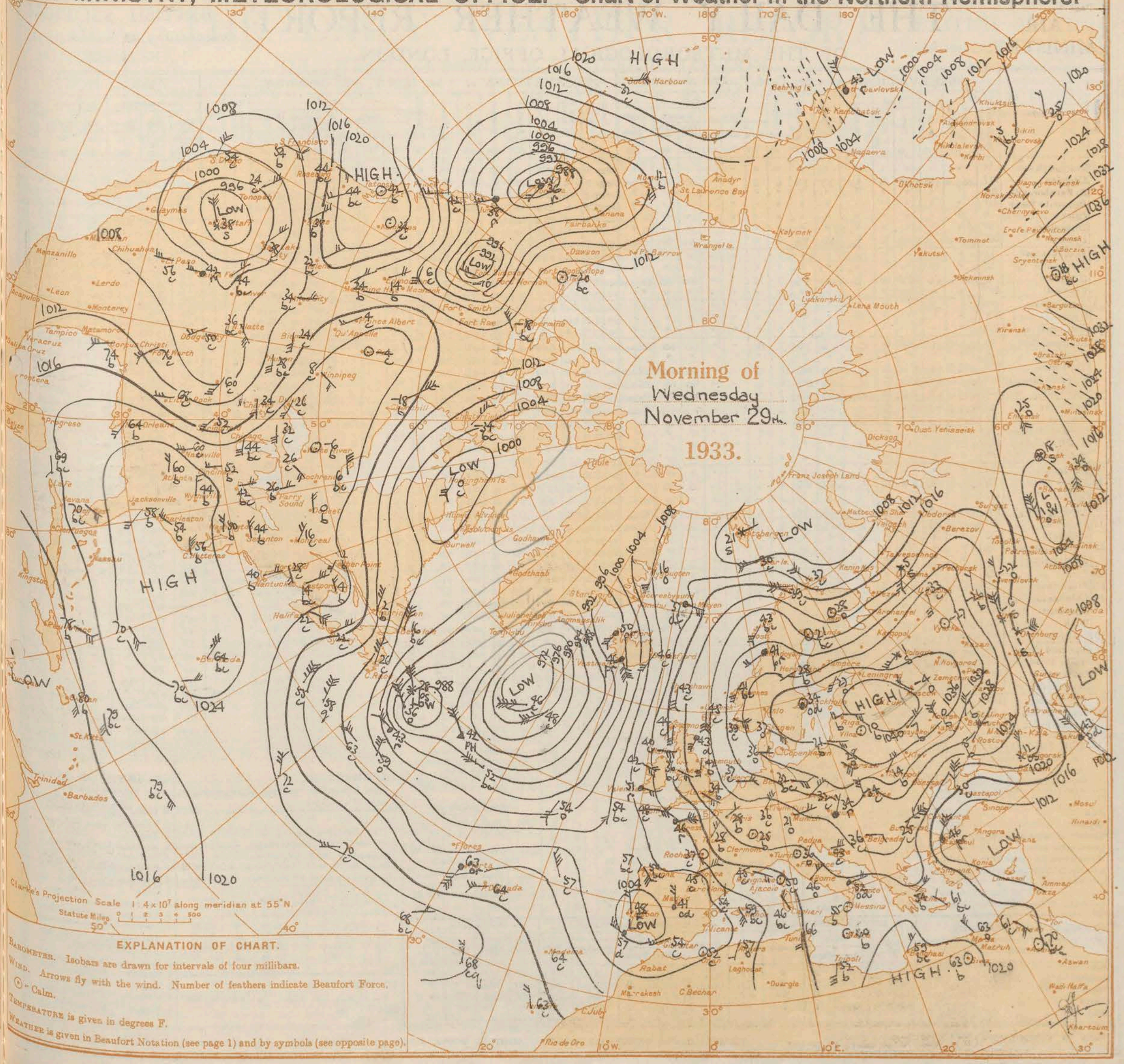
Probably less settled in the extreme West and Northwest; little change elsewhere.

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.

⊙ = 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, 29th November, 1933.

No. 26.305

OBSERVATIONS at 1 hr. G.M.T. 29th November

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	1020.4	+12	ESE	3	3o	37	7S	6	S	-	-	10	10	1S00
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1021.0	+14	ESE	4	3o	36	7S	6	S	-	-	9+	9+	1S00
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1021.6	+6	SE'E	S	o	41	8S	7	S	-	-	10	10	1S00
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1016.3	+10	ESE	6	c	46	7S	7	S	-	-	10	10	2S00
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1012.3	+8	E'N	S	q	47	7S	7	S	-	-	10	10	2S00
	Scilly (St. Mary's)	163	1010.6	+8	ESE	S	r6	48	9S	6	6	-	-	10	10	2S00
	Guernsey	175	1014.6	+2	SE	4	c	40	8S	7	8	1	8	4.6	7.8	4000
6	Pembroke	142	1014.5	+4	ESE	S	q	41	8S	6	S	7	-	4.6	4.6	4000
7	Holyhead	26	1017.3	+8	SE'E	2	m	36	9S	4	-	-	-	0	0	-
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1021.1	+6	SE'E	4	c	43	8S	8	-	2	-	0	10	-
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	100	1022.3	+8	S	3	o	43	8S	7	6	-	-	10	10	1S00
11	Inchkeith	190	1021.4	+8	E	2	c	42	7S	8	S	-	-	10	10	1S00
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts I.)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1016.6	-4	SSW	3	c	47	6S	8	8	6	-	4.6	10	2S00
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1020.4	+2	SE	S	c	45	8S	8	8	1	-	4.6	7.8	1S00
16	Lerwick	54	1023.3	+4	S'E	6	c	45	7S	7	8	-	-	10	10	800
17	Blacksod Point	18	1011.9	+4	ESE	4	q	44	7S	7	9	-	-	10	10	220
18	Malin Head	52	1015.2	+6	E'S	3	c	41	7S	6	-	-	7	0	10	-
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1007.9	+10	SE'S	4	r.c.	48	9S	8	9	-	-	10	10	2S00
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 29th November

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	+4	E'S	2	c	36	85	5	8	-	-	9	9	2500	1	*
Croydon	1021.7	+4	E'S	2	3o	34	85	6	5	-	-	1	1	2500	1	*
S. Farnborough	1021.2	+6	E'S	2	c	36	85	6	5	-	-	10	10	1500	1	*
Boscombe Down	1019.8	+6	E'S	4	c	36	85	6	5	-	-	10	10	800	0	*
Calshot, (S'thmtn)	1019.0	+4	NE'E	5	c	40	85	7	5	-	-	10	10	1500	0	3
Dungeness	*	*	SE	4	c	*	*	6	8S	-	*	9	9	1500	*	2
Lympne	1021.7	0	E'N	4	3o	36	85	6	5	-	-	10	10	1500	1	*
Shoeburyness	1022.0	+4	ESE	3	c	40	7S	7	5	-	-	10	10	800	0	*
Felixstowe	1022.6	+4	E	4	c	41	7S	7	5	-	-	10	10	2500	0	3
Gorleston	1023.3	+4	SE'E	5	o	42	8S	7	5	-	-	10	10	1500	0	3
Cranwell	1022.7	+2	E'S	4	c	39	8S	6	5	-	-	10	10	2500	1	*
Birmingham	1021.6	+4	ESE	2	c	37	7S	6	5	-	-	10	10	1500	1	*
Upper Heyford	1022.0	+6	E	3	3o	36	8S	6	5	-	-	10	10	1500	1	*
Ross-on-Wye	1020.3	+4	E	3	3o	37	7S	5	5	-	-	10	10	1500	1	*
Portland Bill	1017.5	+10	ESE	6	c	45	9S	7	8	-	-	10	10	1500	0	4
Plymouth	1016.0	+6	ESE	4	c	45	7S	7	5	-	-	9+	9+	2500	0	3
The Lizard	1013.5	+4	E'N	5	pr	46	8S	6	8	-	-	10	10	2500	1	4
Scilly (St. Mary's)	1011.6	+12	ESE	5	c	48	9S	6	6	-	-	9+	9+	2500	1	4
Guernsey	1015.9	+10	(E'S)	(5)	bc	40	7S	7	5	-	-	4.6	4.6	5700	0	4
Pembroke	1016.4	+6	ESE	4	q	43	8S	6	5	2	-	4.6	9	2500	0	3
Holyhead	1018.2	+6	SE'E	2	bc	36	8S	6	-	-	6	0	4.6	-	4	0
Chester (Sealand)	1020.8	+6	SSE	4	3o	39	7S	6	5	-	-	10	10	2500	1	*
L'pool (Bidston)	1021.0	+4	ESE	4	o	38	7S	7	5	-	-	10	10	1500	0	*
Manchester	1021.3	+8	SSE	5	c	40	7S	6	5	-	-	10	10	1500	1	*
Harrogate	1022.3	+6	SSE	1	c	38	9S	7	6	2	-	9	10	4000	1	*
Spurn Head	1023.0	+2	SE'E	4	c	42	9S	7	5	2	-	7.8	10	2500	0	3
Catterick	1022.7	+4	SE	2	o	39	8S	5	5	-	-	10	10	1500	1	*
Tynemouth	1022.3	+4	S	3	o	42	8S	7	5	-	-	10	10	1500	1	2
Inchkeith	1021.6	+4	SE	3	c	41	7S	8	5	-	-	10	10	2500	0	2
Leuchars	1021.9	+8	SE	3	r.r.	41	8S	7	5	-	-	10	10	2500	1	*
Renfrew (Abbotts I.)	1020.9	+4	ESE	2	c	40	7S	6	5	-	-	10	10	2500	1	*
Eskdalemuir	1021.4	+4	SE'S	3	c	37	8S	7	5	-	-	10	10	1500	1	*
Tiree	1016.6	0	SSE	6	c	44	7S	6	8	2	-	9	9+	1500	0	4
Stornoway	1017.4	+2	S	3	c	44	6S	6	8	7	-	4.6	7.8	2500	1	1
Dalwhinnie	1020.6	+4	SW	5	bc	36	7S	7	4	1	-	4.6	4.6	1500	0	*
Aberdeen	1022.0	+8	S'W	3	id.	43	9S	6	6	-	-	9+	9+	1500	1	2
Wick	1019.4	-4	SE	6	c	46	8S	8	8	1	-	7.8	9	1500	1	4
Lerwick	1023.2	0	S	6	c	45	8S	7	8	1	-	7.8	9+	1500	0	*
Blacksod Point	1011.8	-2	ESE	5	q	42	8S	7	8	-	-	10	10	800	1	4
Malin Head	1015.4	0	E'S	3	3o	40	8S	6	5	9	-	2.3	7.8	1500	0	1
Aldergrove	1017.4	+2	SE'E	2	c	42	7S	7	5	-	-	10	10	1500	1	*
Donaghadee	1017.5	+4	SSE	5	q	45	7S	7	5	-	-	9	9	1500	0	3
Birr Castle	1013.7	+2	SE	3	c	43	8S	8	5	-	-	9+	9+	2500	0	*
Valentia Obsy.†	1009.8	+6	SE'E	4	r.r.	51	9S	6	5	-	-	10	10	1500	1	-
Roches Point	1012.7	+6	SE	4	rr	47	9S	6	6	-	-	10	10	1500	1	6

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 28th Hrs. (36)
London (Kew)	41	35	31	-	-	0.0
Croydon	40	34	30	-	-	0.0
S. Farnborough	40	35	34	Tr.	-	0.0
Boscombe Down	39	36	34	-	-	0.0
Calshot, (S'thmtn)	45	39	36	Tr.	-	0.0
Dungeness	41	35	*	-	-	*
Lympne	38	34	30	Tr.	-	0.0
Shoeburyness	41	39	37	Tr.	-	0.0
Felixstowe	43	41	40	-	-	0.0
Gorleston	43	41	40	-	-	0.0
Cranwell	40	38	37	-	Tr.	0.0
Birmingham	40	36	35	-	-	0.0
Upper Heyford	39	35	34	-	-	*
Ross-on-Wye	40	37	35	-	-	1.0
Portland Bill	47	44	*	-	-	*
Plymouth	46	43	40	-	-	6.4 ~~3.4~~
The Lizard	47	45	*	-	2	*
Scilly (St. Mary's)	48	47	*	-	3	0.0
Guernsey	42	39	35	-	-	6.9
Pembroke	45	40	*	-	-	0.0
Holyhead	45	33	24	-	-	6.8
Chester (Sealand)	41	39	37	-	-	0.0
L'pool (Bidston)	41	38	37	-	-	0.0
Manchester	42	39	38	-	-	*
Harrogate	39	38	37	0.4	-	0.0
Spurn Head	44	41	*	Tr.	Tr.	0.0
Catterick	40	39	38	0.2	-	0.0
Tynemouth	46	41	39	-	-	*
Inchkeith	47	40	39	-	-	2.5
Leuchars	46	41	37	1	0.1	0.7
Renfrew (Abbotts I.)	45	39	37	Tr.	-	0.8
Eskdalemuir	43	36	36	0.1	-	0.9
Tiree	46	44	42	-	-	0.4
Stornoway	48	43	*	-	-	0.1
Dalwhinnie	40	36	32	3	-	0.0
Aberdeen	47	42	41	3	1	0.0
Wick	47	45	*	5	1	*
Lerwick	45	43	*	1	1	0.4
Blacksod Point	45	42	*	-	Tr.	*
Malin Head	45	39	*	-	-	2.6
Aldergrove	43	41	39	-	-	0.0
Donaghadee	46	43	*	-	-	*
Birr Castle	(45)	40	34	-	-	3.1
Valentia Obsy.†	50	48	46	Tr.	1	0.0
Roches Point	49	45	*	-	11	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations except Greenwich & Hampstead 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	om3o	o3o	cmbcm	41	35	31	-	-	0.0	*	*	5
Croydon	217	cm.	cm.	cm bm	40	34	30	-	-	0.0	*	*	6
Greenwich (Royal Observatory)	149	om.	o	obc	40	33	27	-	-	0.0	78	78	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park)	27	*	*	*	42	36	32	-		0.0	71	74	*
‡Regents Pk. (Botanic Gardens)	168	*	*	*	42	36	32	-		0.0	73	82	*
Camden Square	110	c	c	*	41	35	30	-	-	*	*	81	*
Kensington	80	co	co	*	41	36	29	-	-	0.0	At 18h. 66	77	*
Hampstead Observatory	450	of	b	o	39	33	26	-	Tr.	0.0	*	95	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 29th

South Kensington. Max.	Time.	Min.	Time.
1.3	9h. 28th	<0.3	21h. 28th to 6h. 29th

Kew Observatory. Max.	Time.	Min.	Time.
1.0	9h. 28th	0.1	5h. 29th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 28th November Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 29th November 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	1017.3	ENE	2	b	34	1019.3	NE	1	3o	28	41	28	-	-
Brussels	1019.6	SE	2	o	36	1022.3	ENE	3	o	36	37	32	-	-
Berlin	1024.4	E'S	4	3o	36	1029.4	ESE	4	bc	32	37	28	Tr.	0.2
Zürich	1017.9	NNE	1	b	31	1018.3	ENE	2	o	30	39	28	-	-
Rome						1016.8	ENE	3	c	46		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.

† 1hr observations are from Valentia W/T station ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 30th November 1933.

No. 26,306

OBSERVATIONS at 13h. G.M.T. 29th 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) ...	1021·7	-8	E	4	c	41	75	6	5	-	-	9+	9+	1500
	Croydon ...	1021·7	-6	E	3	z_0	39	75	6	5	-	-	9+	9+	1500
	S. Farnborough	1021·4	-8	E	3	c	38	75	6	5	-	-	9+	9+	1500
	Boscombe Down	1020·8	-10	E'N	3	c	37	85	6	5	-	-	9+	9+	1500
	Calshot, S'thmtn	1020·3	-6	NE	4	z_0	41	75	6	5	-	-	10	10	2500
	Dungeness ...	*	*	NE'E	4	c	*	*	6	4	-	*	9	9	1500
	Lympne ...	1021·6	-8	E'N	4	c	38	75	6	5	-	-	9+	9+	1500
2	Shoeburyness	1022·3	-6	ESE	4	c	41	65	7	5	-	-	10	10	2500
	Felixstowe ...	1022·7	-8	E	4	c	42	65	7	5	-	-	10	10	1500
	Gorleston ...	1023·9	-4	E'S	4	o	41	85	6	5	-	-	10	10	1500
	Cranwell ...	1023·9	-4	ESE	3	c	40	85	6	5	-	-	10	10	4000
3	Birmingham ...	1022·0	-4	ESE	3	c	40	75	5	5	-	-	7-8	7-8	1500
	Upper Heyford	1022·2	-2	E'S	3	z_0	40	75	6	5	-	-	10	10	1500
4	Ross-on-Wye ...	1021·4	+4	E	3	z_0	37	85	6	5	-	-	10	10	1500
5	Portland Bill...	1017·8	+4	ESE	6	c	45	75	7	5	-	-	10	10	2500
	Plymouth ...	1016·7	-2	E'S	5	c	48	65	8	5	-	1	7-8	7-8	2500
	The Lizard ...	1015·6	+4	E	5	bc	48	75	7	7	4	-	4-6	4-6	2500
	Scilly (St. Mary's)	1013·4	0	SE'E	5	c	48	85	6	8	-	-	9+	9+	2500
	Guernsey ...	1017·3	-6	ESE	5	bc	44	75	7	-	3	1	0	2-3	-
6	Pembroke ...	1017·2	+2	ESE	4	q	44	85	6	5	2	-	7-8	9+	2500
7	Holyhead ...	1019·3	+2	SE'E	1	z_0	44	75	6	-	-	6	0	7-8	-
	Chester (Sealand)	1022·1	-2	SSE	4	z_0	39	75	6	5	-	-	10	10	1500
8	L'pool (Bidston)	1021·7	0	SE'E	4	z_0	39	85	6	5	-	-	10	10	1500
	Manchester	1022·5	0	SE'S	4	z_0	42	75	6	5	-	-	9+	9+	2500
9	Harrogate ...	1023·4	0	SE	2	c	39	85	5	6	2	-	7-8	10	2500
10	Spurn Head ...	1023·4	0	E'S	5	c	43	85	7	5	2	-	7-8	10	2500
	Catterick ...	1023·9	0	SE	2	c	40	85	7	5	-	-	10	10	2500
	Tynemouth ...	1023·5	0	S	3	c	43	75	6	5	-	-	9+	9+	1500
11	Inchkeith ...	1022·5	-6	SE	3	c	42	75	7	5	-	-	10	10	1500
	Leuchars ...	1022·2	-4	SSE	4	c	42	75	7	5	-	-	10	10	2500
12	Renfrew (Abbotts I.)	1020·8	-6	ESE	2	z_0	41	75	5	5	-	-	10	10	2500
	Eskdalemuir ...	1021·9	-4	SSE	4	c	39	75	7	5	-	-	9+	9+	1500
13A	Tiree ...	1016·4	-4	SSE	6	c	45	85	6	8	2	-	9+	9+	1500
13B	Stornoway ...	1017·0	-10	S	5	c	45	65	7	8	2	-	4-6	10	1500
15	Dalwhinnie ...	1019·1	-6	S	4	c	37	85	7	4	2	-	7-8	10	800
	Aberdeen ...	1022·2	-8	S'E	3	ir_0	44	85	5	6	-	-	10	10	1500
	Wick ...	1018·7	-8	S	7	c	45	75	8	8	2	-	7-8	10	1500
16	Lerwick ...	1021·8	-10	S	6	cjp	47	85	7	8	7	-	7-8	9+	800
17	Blacksod Point	1011·7	0	E	3	c	46	85	7	-	7	-	0	7-8	-
18	Malin Head ...	1015·1	-10	E'S	4	z_0	44	75	6	8	9	-	4-6	9+	1500
	Aldergrove ...	1018·0	-2	SE'E	3	z_0	44	75	6	5	-	-	9+	9+	2500
	Donaghadee ...	1018·8	+4	SSE	5	q	44	75	7	5	-	-	9+	9+	1500
19	Birr Castle ...	1014·8	0	SE	4	bc	46	85	8	-	4	-	0	4-6	-
20	Valentia Obsy.	1011·2	-2	SE'S	5	c	52	85	7	5	-	-	9+	9+	1500
	Roches Point...	1013·8	+6	SE	5	c	49	85	7	3	-	-	10	10	1500

OBSERVATIONS at 18h. G.M.T. 29th November

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	-2	E'N	4	c	41	65	5	5	-	-	9+	9+	1500	1	*
Croydon	1021·4	0	E'N	2	z_0	39	75	6	5	-	-	9+	9+	2500	1	*
S. Farnborough	1021·2	0	E	3	c	38	75	6	5	-	-	9+	9+	1500	1	*
Boscombe Down	1021·2	+4	E'N	2	o	36	75	6	5	-	-	10	10	800	0	*
Calshot, S'thmtn	1020·6	+2	NNE	3	c	38	75	6	5	3	-	4-6	9	2500	0	2
Dungeness	*	*	E'N	4	c	*	*	6	8	-	*	7-8	7-8	1500	*	3
Lympne	1021·6	+2	ENE	3	z_0	38	75	6	5	-	-	9	9	2500	1	*
Shoeburyness	1021·8	-4	E	4	c	41	75	7	5	-	-	10	10	1500	0	*
Felixstowe	1022·5	-2	ENE	4	z_0	42	75	6	5	-	-	10	10	1500	0	3
Gorleston	1023·0	-4	E'S	4	o	42	75	7	5	-	-	10	10	1500	0	3
Cranwell	1023·9	0	E'S	3	c	38	85	6	5	-	-	10	10	2500	1	*
Birmingham	1022·2	0	ESE	3	c	38	75	5	5	-	-	10	10	1500	1	*
Upper Heyford	1022·3	0	E	3	z_0	38	75	6	5	-	-	10	10	1500	1	*
Ross-on-Wye	1021·3	0	ENE	2	z_0	38	85	5	5	-	-	10	10	1500	1	*
Portland Bill	1018·5	+10	E'S	6	u	43	85	6	5	-	-	10	10	1500	0	4
Plymouth	1017·6	+6	E'S	3	bc	43	75	7	5	-	-	4-6	4-6	1500	0	3
The Lizard	1016·0	0	E	4	bc	46	85	8	7	-	-	2-3	2-3	4000	0	3
Scilly (St. Mary's)	1014·4	+8	ESE	5	c	48	75	7	5	-	-	9	9	2500	1	4
Guernsey	1017·0	+6	ESE	5	bc	42	75	7	-	3	1	0	2-3	-	0	4
Pembroke	1018·7	+2	ESE	4	q	44	85	6	5	7	-	4-6	7-8	2500	0	3
Holyhead	1019·8	+10	SE	2	bc	35	95	5	-	-	8	0	2-3	-	1	0
Chester (Sealand)	1022·4	+8	SSE	4	z_0	40	65	6	5	-	-	9+	9+	1500	1	*
L'pool (Bidston)	1022·5	+4	ESE	4	c	39	75	6	5	-	-	9	9	1500	0	*
Manchester	1022·8	+6	SE	2	z_0	37	85	5	5	-	-	4-6	4-6	2500	1	*
Harrogate	1023·6	0	SE	2	c	38	75	5	6	2	-	9	10	4000	1	*
Spurn Head	1023·2	-2	E	5	c	43	75	7	5	2	-	4-6	10	4000	0	4
Catterick	1024·0	+4	SE	1	c	39	85	7	5	-	-	10	10	1500	1	*
Tynemouth	1023·4	0	S	3	o	43	75	6	6	-	-	10	10	1500	1	2
Inchkeith	1022·7	+6	SE	3	c	40	75	7	5	-	7	2-3	10	2500	0	2
Leuchars	1022·9	+14	S	2	bc	39	75	7	5	-	1	4-6	4-6	2500	1	*
Renfrew (Abbotts I.)	1021·8	+10	E'S	2	z_0	41	75	5	5	-	-	10	10	2500	1	*
Eskdalemuir	1022·9	+12	E'S	1	c	35	85	6	5	-	-	9+	9+	2500	1	*
Tiree	1016·8	+2	SSE	7	c	45	75	6	8	2	-	9	9+	1500	0	4
Stornoway	1016·7	-2	S	5	bc	45	75	7	4	8	-	4-6	4-6	2500	1	3
Dalwhinnie	1021·1	+4	ESE	5	c	36	85	7	4	4	-	4-6 (corrected from 7-8)	7-8	1500	0	
Aberdeen	1022·9	+10	S/W	4	c	43	85	6	6	1	-	9	9+	1500	1	2
Wick	1018·6	-2	S	7	c	44	95	8	8	1	-	7-8	9	1500	1	4
Lerwick	1021·8	+2	SSE	6	c/r	47	85	7	5	2	-	4-6	9	1500	1	*
Blacksod Point	1011·5	0	E	3	c	47	85	7	-	7	-	0	9	-	0	3
Malin Head	1015·9	+6	E'S	4	z_0	42	75	6	8	-	-	9	9	1500	0	1
Aldergrove	1018·8	+6	SE'E	3	c	43	75	6	5	-	-	10	10	1500	1	*
Donaghadee	1018·9	+2	SSE	4	q	45	75	7	5	-	-	9	9	1500	0	3
Birr Castle	1015·2	+2	SSE	3	c	45	85	8	5	-	-	9+	9+	2500	0	*
Valentia Obsy.	1010·9	+2	SE	5	c	51	85	8	5	-	-	7-8	7-8	1500	1	4
Roches Point	1013·8	+6	SE	5	c	49	85	7	3	-	-	9	9	1500	0	6

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)	cz_0	cz_0	cz_0	cz_0
Croydon	cm_0	cm_0	cm_0	cm_0
S. Farnborough	$cbcocm_0$	$cbccm_0$	cm_0	cm_0
Boscombe Down	om_0cm_0	cz_0	cm_0	cz_0
Calshot, S'thmtn	ccm_0	cm_0bcc	cbcxbc	c
Dungeness	bc	bc	*	bc
Lympne	om_0c	cm_0	cm_0	com_0
Shoeburyness	c	c	c	c
Felixstowe	c	ccz_0	cz_0	cz_0
Gorleston	oq	oq	ocq	oq
Cranwell	cm_0	cm_0	cm_0	cm_0
Birmingham	c	c	c	c
Upper Heyford	c	cm_0	cm_0	cr_0m_0
Ross-on-Wye	cm_0	cm_0	cm_0om_0	om_0
Portland Bill	c	coz_0	c	c
Plymouth	cbc	cbc	bc	bc
The Lizard	prcbc	bc	bcc	c
Scilly (St. Mary's)	cp_0c	c	bcbbc	bc
Guernsey	bc	bc	bc	bcb
Pembroke	cqm_0c	cqm_0c	cqm_0c	cq
Holyhead	$bcxm_0$	$cbcz_0$	bcm_0bm_0x	bm_0x
Chester (Sealand)	coz_0	ocz_0	cz_0	coz_0
L'pool (Bidston)	om_0	m_0ocm_0	c	c
Manchester	cm_0z_0	$cbcz_0$	bm_0c	com_0
Harrogate	c	c	c	c
Spurn Head	bc	bc	co	oc
Catterick	om_0cm_0c	ccz_0c	c	co
Tynemouth	oc	co	o	o
Inchkeith	c	c	cbc	bcc
Leuchars	c	cbc	$bcbbcxm_0$	$bccxm_0$
Renfrew (Abbotts I.)	cm_0m	cm_0	$cbcm_0$	$bccm_0x$
Eskdalemuir	c	cm_0	cbcx	bcxc
Tiree	c	c	c	c
Stornoway	c	c	cm_0	$cbcm_0q$
Dalwhinnie	o	c	*	bc
Aberdeen	$coir_0$	oir_0c	cz_0c	co
Wick	c	c	c ⊕ ◯	c ⸙
Lerwick	cpirq	cir	cq	cir_0
Blacksod Point	cbc	c	c	c
Malin Head	z	z	z	z
Aldergrove	cz_0	cz_0	cz_0	cz_0
Donaghadee	cq	cq	cq	cq
Birr Castle	cbc	bcc	c	c
Valentia Obsy.	cr_0ir_0c	c	c	pr_0c
Roches Point	oir_0	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_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. ⸙ gale.

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.

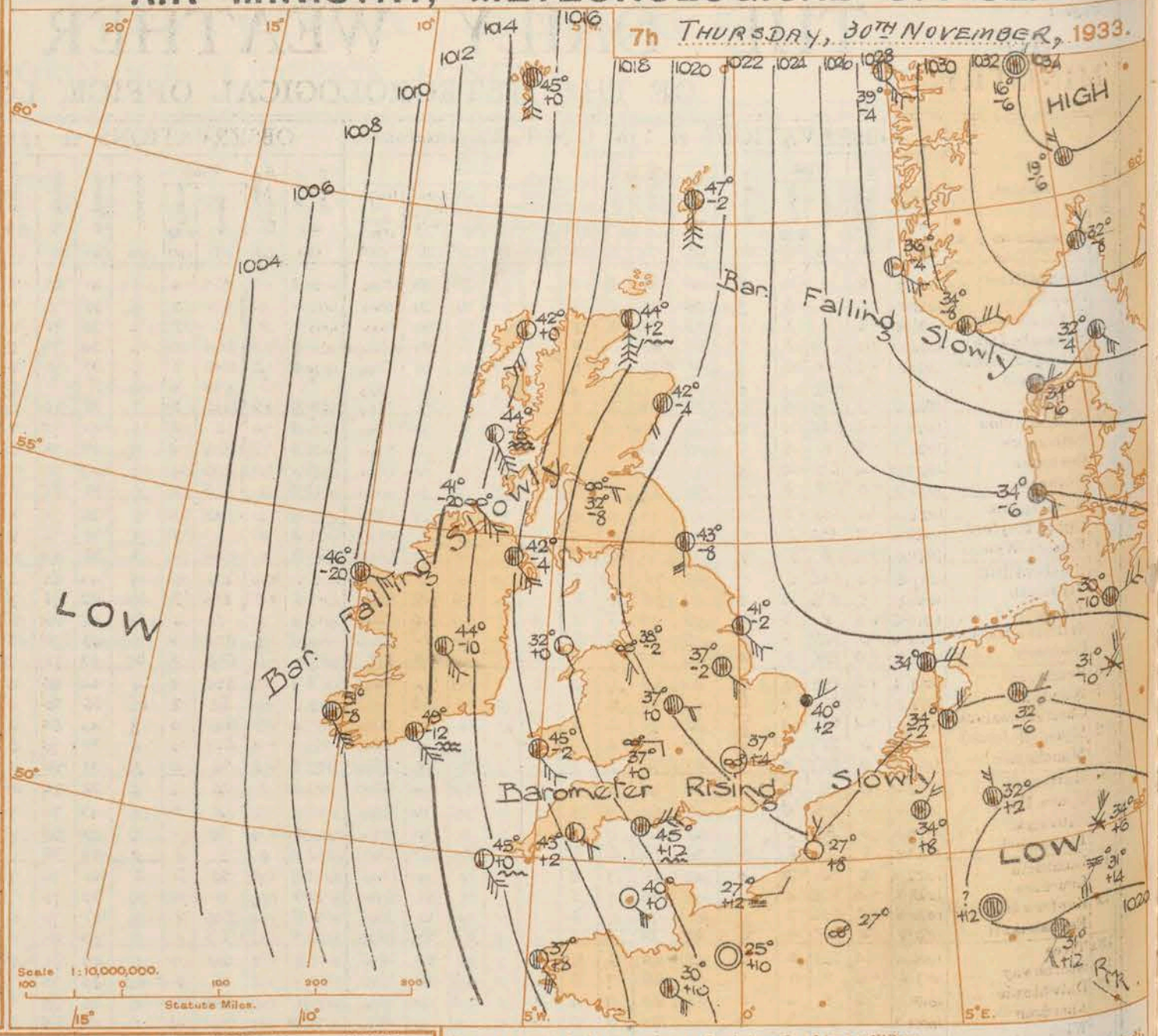
NOTE.—*The accuracy of individual entries in this Report cannot be guaranteed. Corrections and additions can be obtained, if necessary, on application to the Meteorological Office, London, W.C.2.*

REPORTS from HEALTH RESORTS for 29th NOVEMBER 1933.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 28th to 9h. 29th	Temperature. Max. 9h.—17h. 29th	Rainfall. Night. 17h. 28th to 9h. 29th	Rainfall. Day. 9h.—17h. 29th	Sunshine. Sunrise to Sunset. 29th
1	Tunbridge W.	o	o	32	38	-	-	0·0
	Bournemouth	o	o	37	41	-	-	0·0
	Ventnor ...	o	o	41	43	-	-	0·0
	Southsea ...	o	ocbm	38	40	-	-	0·0
	Bognor Regis	o	o	38	40	-	-	0·0
	Littlehampton	c	cbc	38	39	-	-	0·0
	Worthing ...	o	oc	38	39	-	-	0·0
	Brighton ...	bcc	bc	38	41	-	-	0·0
	Eastbourne†	co	oc	39	42	-	-	0·0
	Hastings† ...	o	occ	37	40	-	-	0·1
	Folkestone ...	o	ocbc	36	41	-	-	1·8
	Dover... ...	oc	cbcc	38	43	-	-	0·8
	Deal	o	oco	36	42	-	-	0·1
	Ramsgate ...	c	c	38	42	-	-	0·3
	Margate ...	c	c	39	41	-	-	0·2
2	Southend ...	co	o	38	41	-	-	0·0
	Maldon ...	o	o	39	41	-	-	0·0
	Clacton-on-Sea	og	og	39	42	-	-	0·0
	Dovercourt ...	oc	oc	41	42	-	-	0·0
	Lowestoft ...	c	c	41	42	-	-	0·0
	Skegness ...	o	o	41	43	-	-	0·0
	Mablethorpe	om	om	41	43	-	-	0·0
	Cleethorpes ...	o	o	39	42	Tr	-	0·0
3	Leamington S.	o	o	41	38	-	-	0·0
4	Cheltenham†	coc	com	34	39	-	-	0·0
5	Bath	c	c	34	39	-	-	0·0
	Weymouth ...	mc	c	40	45	-	-	0·0
	Jersey ...	bcb	bc	35	43	-	-	6·7
	Torquay ...	cqbc	cq	44	48	-	-	0·6
	Penzance ...	c	bcb	46	49	2	-	2·0
	St. Ives ...	c	b	44	48	.4	-	2·7
	Bude	bcb	b	39	48	-	-	6·6
	Ilfracombe ...	cbcb	bbcc	39	46	-	-	3·0
6	Aberystwyth	zbc	bcz	36	40	-	-	1·8
7	Llandudno ...	bc	bc	33	42	-	-	4·3
	Colwyn Bay...	bcb	bbc	31	41	-	-	4·8
	Rhyl	cbc	bcc	36	40	-	-	2·5
8	Wallasey ...	o	o	39	41	-	-	0·0
	Southport‖ ...	o	o	39	40	-	-	0·0
	Blackpool ...	o	o	40	41	-	-	0·0
	Morecambe ...	c	c	38	42	-	-	0·0
9	Ilkley... ...	o	o	37	40	-	-	0·0
10	Berwick-on-T.	ocbc	bc	40	43	Tr	-	2·1
11	Dunbar ...	rbc	bc	40	42	Tr	-	0·0
12	Troon... ...	cococ	o	38	45	-	-	0·0
	Douglas ...	oq	cq	40	42	-	-	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 wind. Number of feathers indicate Beaufort Force. Calm is indicated by circle outside weather symbol :— TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :— Clear sky. Sky less than 1/10 clouded. Sky 1/10 to 5/10 clouded. Sky 1/10 to 9/10 clouded. Overcast sky. Rain falling. Snow. Sleet. Hail. Fog. Mist. Thunder. Thunderstorm. Slight haze.
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. 30th Nov., 1933.
1. S.E. England 2. E. England... 3. E. Midlands	Wind easterly, light or moderate; dull or cloudy; local mist; rather cold.
4. W. Midlands	As 7 - 8.
5. S.W. England 6. South Wales	Wind southeast or south, fresh, strong locally; cloudy, local bright intervals; perhaps local rain later; rather cold.
7. North Wales 8. N.W. England	Wind east or southeast, light or moderate, freshening; cloudy, bright intervals locally; rather cold.
9. N Midlands 10. N.E England 11. S.E. Scotland	Wind southeast, moderate; dull or cloudy; rather cold.
12. S.W. Scotland & Isle of Man	As 7 - 8.
13. A. W Scotld. B. N.W. Scotland V	Wind southerly, fresh or strong, perhaps gale locally; cloudy, perhaps local rain or showers later; rather low to moderate temperature.
14. Mid-Scotland	As 9 - 11.
15. N.E. Scotland V 16. Orkneys and Shetlands. V	Wind southerly, fresh or strong, perhaps gale locally; cloudy, local showers; rather low to moderate temperature.
17. N.W. Ireland	As 20.
18. N.E. Ireland	As 5 - 6.
19. S.E. Ireland 20. S.W. Ireland	Wind southeast or south, fresh or strong, perhaps gale locally; cloudy; probably occasional rain or showers; moderate temperature.

GENERAL INFERENCE.

Pressure is high from the Black Sea to Scandinavia and low near Southeast Greenland. A shallow depression over Germany will probably move north and a more active disturbance west of Ireland is likely to move east. Weather will be mainly cloudy and rather cold in most districts, with perhaps occasional rain in the extreme West.

FURTHER OUTLOOK.

Rather unsettled.

Time of issue of Gale Warning.

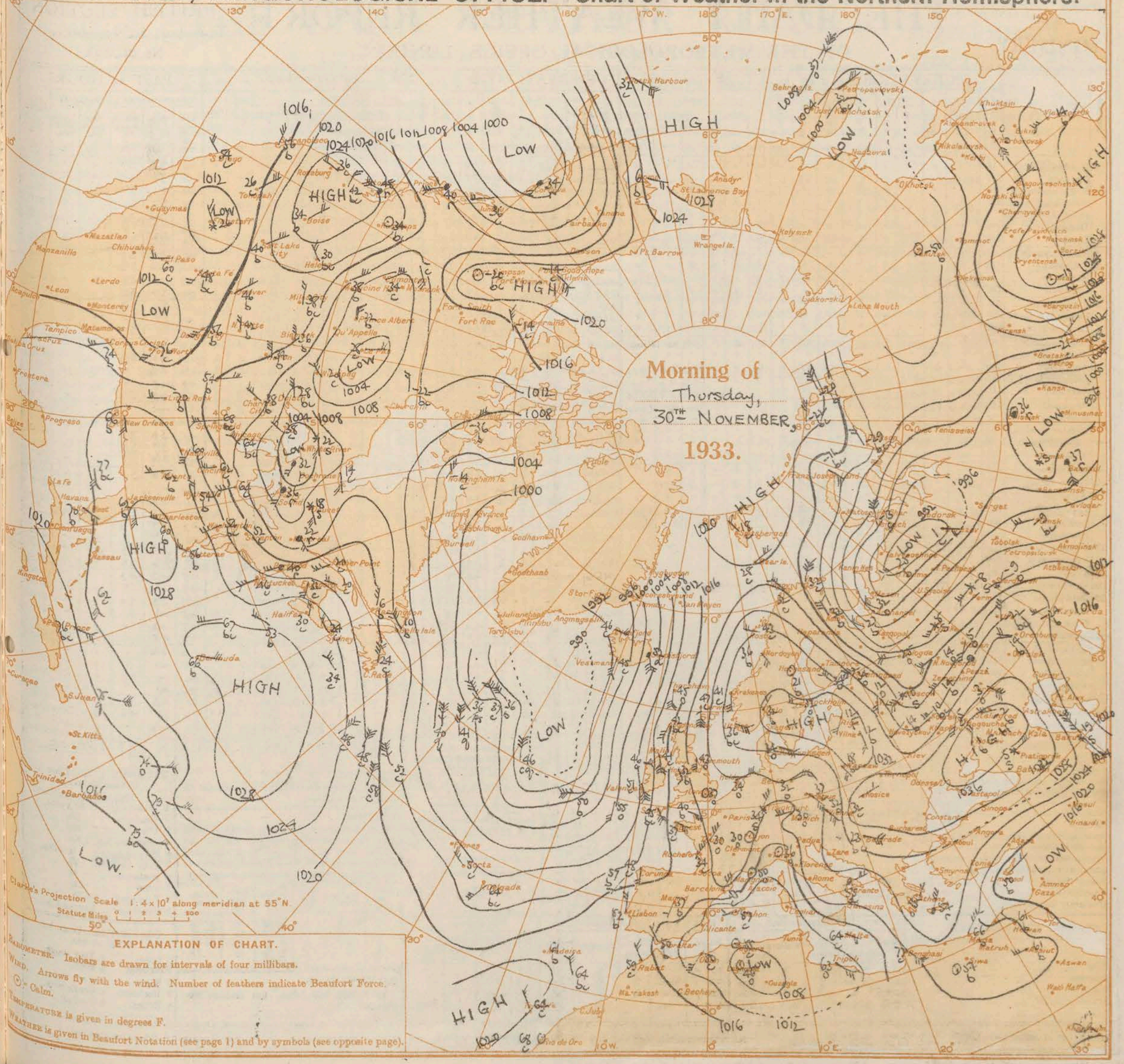
V. South Cone at 0145 on 30th in districts 13B, 15 and 16.

Forecasts issued at 1025 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 30th November 1933.

No. 26,306

OBSERVATIONS at 1 hr. G.M.T. 30th November

Districts	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	1021.8	+2	E	1	3o	39	85	6	S	-	-	10	10	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1021.8	+7	E'S	2	3o	38	75	6	S	-	-	10	10	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	5	1023.0	0	E'S	4	0	40	85	7	S	-	-	10	10	2500
	Cranwell	240	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	?	+2	ENE	5	c	43	85	7	4	4	-	7.8	10	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	The Lizard	240	1016.8	0	E	4	c	45	75	8	8	7	-	4.6	7.8	2500
	Scilly (St. Mary's)	163	1015.6	+6	SE'E	5	bc	45	85	7	2	-	-	4.6	4.6	4000
	Guernsey	175	1018.6	0	ESE	2	bc	39	75	7	1	-	-	2.3	2.3	2500
6	Pembroke	142	1018.6	+2	SE	4	9	41	75	7	5	-	-	9+	9+	2500
7	Holyhead	26	1020.3	0	SE'S	1	6	33	85	6	-	-	-	0	0	-
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Manchester	70	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1023.0	-2	ENE	5	c	42	85	7	-	2	-	0	10	-
	Catterick	175	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Tynemouth	100	1023.3	0	S	3	0	42	75	7	5	-	-	10	10	1500
11	Inchkeith	190	1023.0	0	SE	2	bc	38	75	7	5	-	-	4.6	4.6	2500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew (Abbotts'D)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1016.6	-2	S	7	c	46	75	5	8	7	-	4.6	7.8	2500
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1018.9	-2	S	8	c	44	85	8	5	1	8	4.6	7.8	2500
16	Lerwick	54	1021.4	+6	SSE	7	c	47	75	7	5	2	-	9	10	1500
17	Blacksod Point	18	1011.5	0	E	3	c	48	85	7	-	7	-	0	10	-
18	Malin Head	52	1015.8	0	E'S	5	3o	43	75	6	5	7	-	2.3	9+	1500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1010.2	-10	SE'S	4	c/d6	49	95	8	9	-	-	10	10	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 30th November

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)	1022.0	+6	SSE	2	c	39	75	6	5	-	-	10	10	1500	1	*
Croydon	1022.1	+4	-	0	3o	37	85	6	5	-	-	10	10	1500	1	*
S. Farnborough	1021.7	+2	E	1	c	37	85	5	5	-	-	10	10	1500	1	*
Boscombe Down	1021.5	+2	ENE	3	c	36	75	6	5	-	-	9+	9+	1500	0	*
Calshot (S'thmtn)	1021.2	+6	NE	3	c	40	75	7	5	-	-	10	10	2500	0	3
Dungeness	*	*	E	1	c	*	*	5	5	-	*	9	9	1500	*	1
Lympne	1022.2	+4	E	2	3o	37	75	5	5	-	-	10	10	800	1	*
Shoeburyness	1022.2	+4	-	0	c	39	85	7	5	-	-	10	10	1500	0	*
Felixstowe	1022.2	+4	ENE	1	3o	41	75	6	5	-	-	10	10	2500	0	1
Gorleston	1022.8	+2	ENE	2	5o	40	85	7	6	-	-	10	10	1500	0	2
Cranwell	1023.3	-2	SE'E	2	c	37	85	6	5	-	-	10	10	1500	1	*
Birmingham	1022.1	0	E	2	c	37	95	5	5	-	-	10	10	1500	1	*
Upper Heyford	1022.3	+4	E	3	5o	37	95	6	6	-	-	10	10	800	1	*
Ross-on-Wye	1021.5	0	E	1	3o	37	85	5	5	-	-	10	10	1500	1	*
Portland Bill	1020.3	+12	E'N	5	c	45	85	7	5	-	-	10	10	2500	0	4
Plymouth	1018.7	+2	ESE	2	bc	43	75	7	5	-	-	4-6	4-6	2500	0	2
The Lizard	1017.2	+4	E	4	c	45	85	7	8	6	-	4-6	7-8	2500	0	3
Scilly (St. Mary's)	1015.9	0	SE'S	5	bc	45	85	7	7	-	5	2-3	4-6	4000	1	4
Guernsey	1019.5	0	E'S	3	b	40	75	7	-	-	-	0	0	-	0	3
Pembroke	1017.8	-2	SE	4	q	45	75	7	5	-	-	9	9	2500	0	3
Holyhead	1020.0	0	S'E	1	6	32	85	6	-	-	1	0	1	-	4	0
Chester (Sealand)	1021.7	-2	SSE	2	3o	38	85	6	5	-	-	10	10	1500	1	*
L'pool (Bidston)	1021.4	-2	E'S	4	c	38	85	7	5	-	-	10	10	2500	0	*
Manchester	1022.4	-2	SE'S	4	0	39	85	6	5	-	-	10	10	2500	1	*
Harrogate	1022.6	0	SE	2	c	38	85	7	6	2	-	9	10	4000	1	*
Spurn Head	1022.4	-2	ESE	4	c	41	85	8	-	2	-	0	9+	-	0	3
Catterick	1023.0	-2	SE'E	2	0	39	85	7	5	-	-	10	10	1500	0	*
Tynemouth	1022.6	-8	S	3	0	43	75	7	5	-	-	10	10	1500	1	2
Inchkeith	1021.7	-6	ENE	2	c	39	85	8	5	1	-	4-6	9+	2500	0	2
Leuchars	1021.6	-10	-	0	c	34	95	5	5	-	-	10	10	1500	4	*
Renfrew (Abbotts'D)	1021.4	-8	E	2	3o	32	95	5	5	-	-	10	10	1500	4	*
Eskdalemuir	1021.8	-8	-	0	c	34	85	6	5	-	-	10	10	1500	1	*
Tiree	1015.6	-8	SSE	7	c	44	75	6	5	2	-	9-	10	1500	0	5
Stornoway	1016.5	0	SSW	4	bc	42	75	5	5	-	-	4-6	4-6	1500	1	2
Dalwhinnie	1020.5	-2	E	2	bc	33	85	8	4	1	-	2-3	4-6	4000	5	*
Aberdeen	1021.6	-4	SW'S	2	0	42	85	7	5	-	-	10	10	2500	1	0
Wick	1019.3	+2	S	8	c	44	85	8	5	1	8	4-6	7-8	2500	1	4
Lerwick	1021.2	-2	S	7	c/s	47	85	7	5	2	-	4-6	9+	1500	1	*
Blacksod Point	1009.1	-20	E	4	c	46	85	7	-	7	-	0	10	-	0	3
Malin Head	1013.5	-20	S'E	5	3o	41	75	6	6	-	-	4-6	4-6	1500	0	1
Aldergrove	1017.9	-4	SE	5	c	42	65	6	5	-	-	10	10	1500	1	*
Donaghadee	1018.3	-2	SSE	6	q	43	75	7	5	-	-	9+	9+	1500	0	3
Birr Castle	1012.8	-10	SE	4	c	44	85	8	5	-	-	7-8	7-8	2500	0	*
Valentia Obsy.†	1008.4	-8	SE'S	6	c	51	85	7	5	-	-	10	10	1500	1	*
Roches Point	1013.6	-12	SE	6	c	49	75	7	3	-	-	7-8	7-8	1500	0	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 30th Hrs. (36)
London (Kew)	41	39	37	-	-	1.1
Croydon	39	37	36	-	-	0.0
S. Farnborough	38	37	37	-	-	0.0
Boscombe Down	38	33	30	-	-	0.0
Calshot (S'thmtn)	41	36	23	-	-	0.0
Dungeness	43	35	*	-	-	*
Lympne	39	36	33	-	-	1.0
Shoeburyness	41	39	37	-	-	0.0
Felixstowe	42	40	38	-	-	0.0
Gorleston	43	40	38	-	-	0.0
Cranwell	40	37	36	-	-	0.0
Birmingham	40	36	35	-	-	0.0
Upper Heyford	40	37	35	-	Tr.	*
Ross-on-Wye	38	37	35	-	-	0.0
Portland Bill	48	40	*	-	-	*
Plymouth	43	40	36	-	-	5.5
The Lizard	49	43	*	Tr.	-	*
Scilly (St. Mary's)	48	45	*	Tr.	-	0.0
Guernsey	44	39	32	-	-	7.0
Pembroke	45	40	*	-	-	0.0
Holyhead	44	30	22	-	Tr.	4.1
Chester (Sealand)	40	38	35	-	-	0.0
L'pool (Bidston)	40	37	36	-	-	0.0
Manchester	42	34	27	-	-	*
Harrogate	38	38	36	-	-	0.0
Spurn Head	44	41	*	-	-	0.0
Catterick	40	38	37	-	-	0.0
Tynemouth	44	41	39	-	-	*
Inchkeith	43	37	29	-	-	0.0
Leuchars	43	27	19	Tr.	-	0.0
Renfrew (Abbotts'D)	43	27	19	-	-	0.0
Eskdalemuir	39	26	20	-	-	0.0
Tiree	45	43	43	-	-	0.0
Stornoway	45	41	*	-	-	0.0
Dalwhinnie	37	33	29	-	-	0.0
Aberdeen	45	41	41	1	-	0.0
Wick	45	42	*	-	-	*
Lerwick	47	45	*	1	Tr.	0.0
Blacksod Point	48	32	*	-	-	*
Malin Head	45	41	*	-	-	2.1
Aldergrove	44	41	37	-	-	0.0
Donaghadee	46	41	*	-	-	*
Birr Castle	48	43	37	-	-	1.9
Valentia Obsy.†	52	50	48	Tr.	Tr.	0.0
Roches Point	50	48	*	1	-	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon.
9h—18h, Kensington.
9h—21h, other stations, except Greenwich & Hampstead 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	c3o	c3o	c3o	41	39	37	-	-	1.1	*	*	6
CROYDON	217	cm3	cm3	cm3	39	37	36	-	-	0.0	*	*	5
GREENWICH (Royal Observatory)	149	c	cm3	00m3	41	37	35	-	-	0.3	73	84	4
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
WESTMINSTER (St. James' Park)	27	*	*	*	42	39	38	-		0.1	77	72	*
‡REGENTS PK. (Botanic Gardens)	168	*	*	*	40	39	38	-		0.0	69	73	*
CAMDEN SQUARE	110	c	c	*	40	40	38	-	-	*	*	80	*
KENSINGTON	80	coc6c	6cc0	*	41	39	37	-	-	0.0	At 18h. 62	79	*
HAMPSTEAD OBSERVATORY	450	0	0	0f	39	34	34			0.0	*	84	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 30th

SOUTH KENSINGTON.

Max.	Time.	Min.	Time.
0.8	8h. 29th	<0.3	22h. 29th to 7h. 30th

KEW OBSERVATORY.

Max.	Time.	Min.	Time.
0.3	21h. 29th	0.1	21h. 30th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 29th November Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 30th November 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	1019.0	-	0	6	32	1021.4	-	0	3o	27	37	27	-	-
BRUSSELS	1021.1	ENE	3	c	36	1021.5	NNE	2	3o	34	39	32	-	-
BERLIN	1029.5	E	3	0	32	1023.7	E'N	4	0	32	34	30	Tr.	-
ZÜRICH	1017.6	WSW	1	c/s	30	1019.1	NNW	1	m	30	32	25	1	0.5

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.

TERMS OF SUBSCRIPTION. Single Copies, 1d. each; by post 1½d. 2/6 per month; 8/6 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 ‡ Maximum and Minimum Temperatures and Rainfall are for the 24 hours ending 9h.