M.O. Form 2373

THE DAILY WEATHER REPORT

BRITISH SECTION

1st January to 31st March

1931.

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

INTRODUCTION

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

NOTES REGARDING THE BRITISH SECTION.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The International and Upper Air Sections.

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

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

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

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

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

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

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

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

THE BEAUFORT SCALE OF WIND FORCE.

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

GALE WARNINGS.

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

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

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

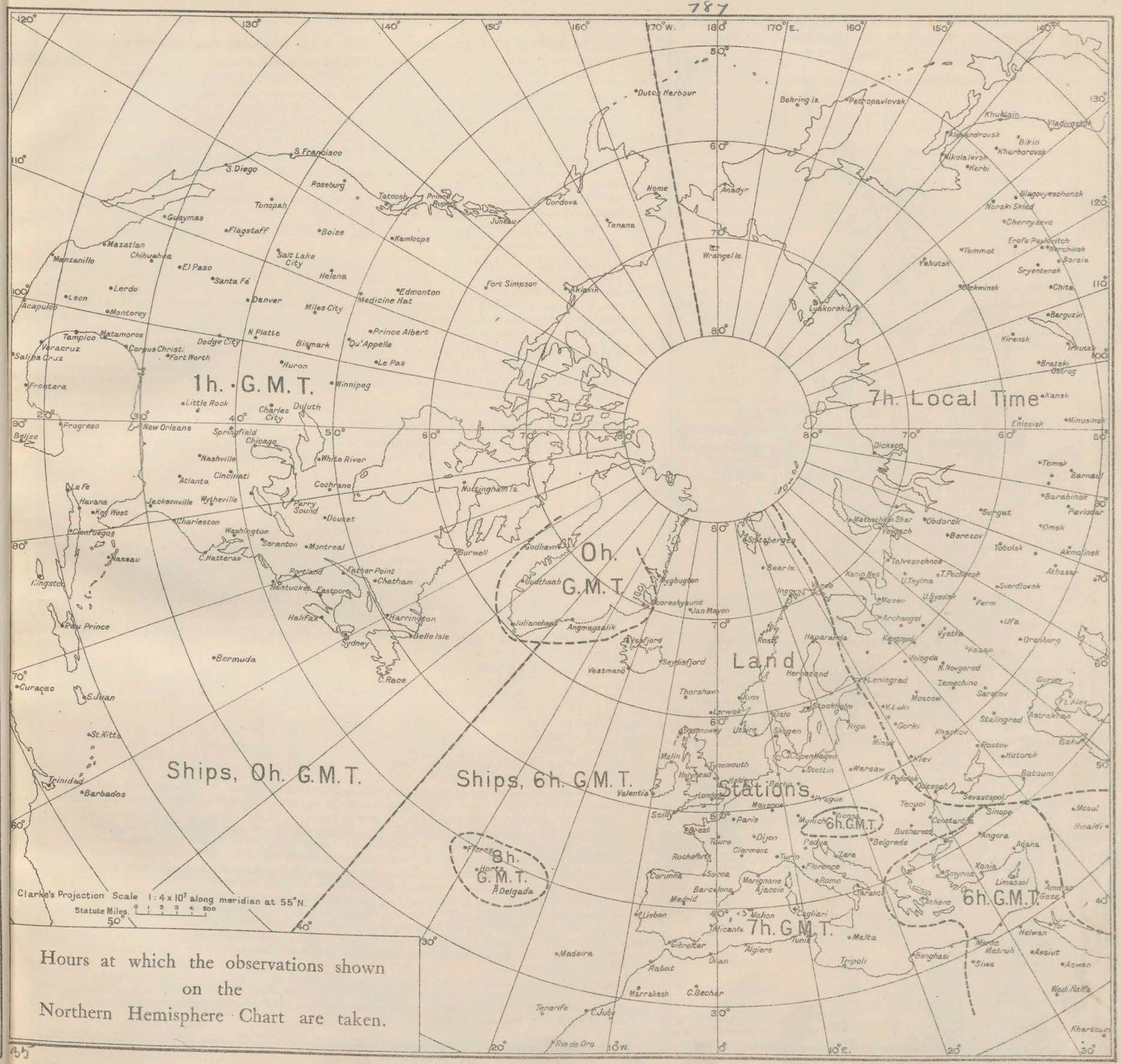
The *South Cone* (point downwards) is hoisted for gales commencing from a Southerly point. Such gales often veer, sometimes as far as Northwest.

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

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

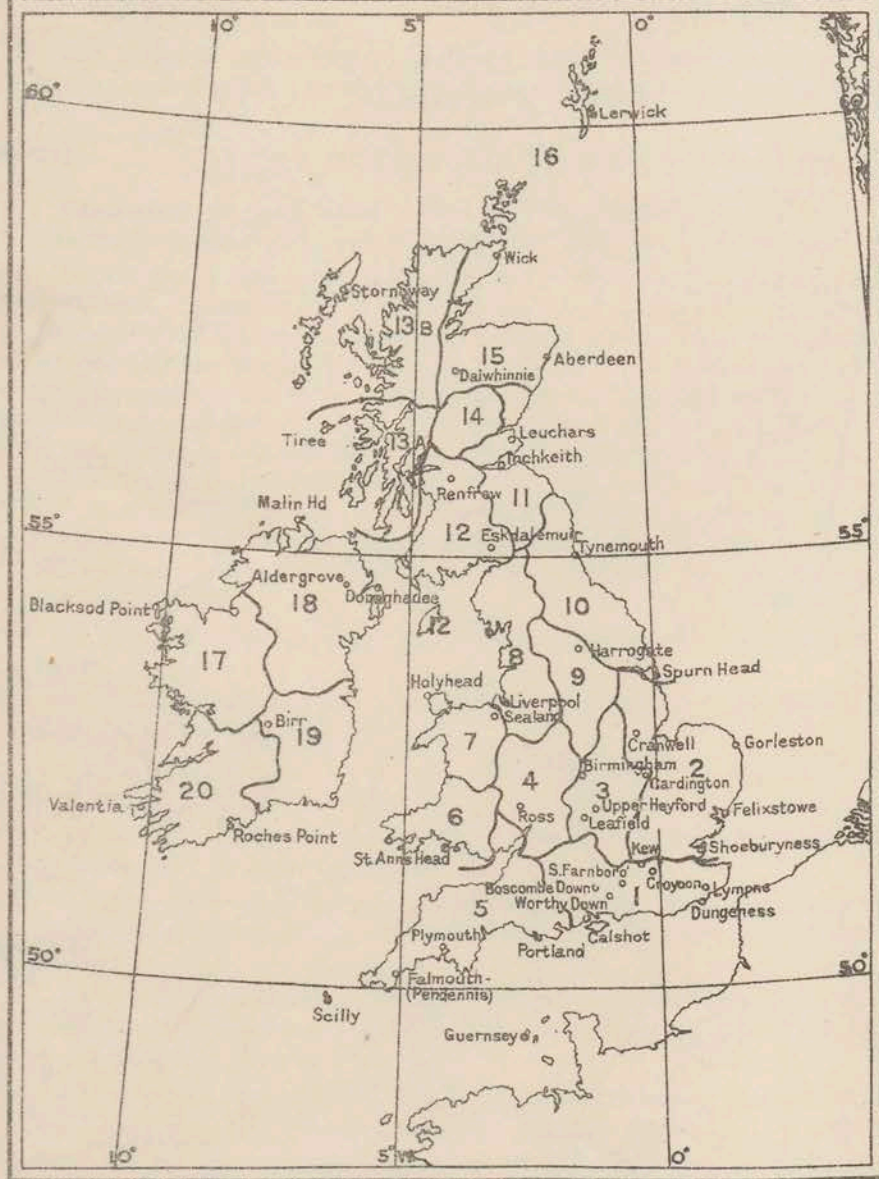
▲ North Cone hoisted : ▼ South Cone hoisted :

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



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

FORECAST DISTRICTS AND BRITISH STATIONS



FORECAST DISTRICTS

and the Counties comprised within them.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

14. *Mid. Scotland.*
    Perth.

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

16. *Orkneys and Shetlands.*

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

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

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

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

NOTES ON THE INFORMATION CONTAINED IN THE DAILY WEATHER REPORT.

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

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

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

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

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

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

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

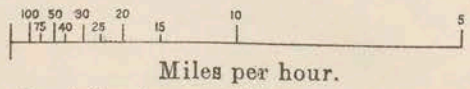
The wind at a height of 1,500-2,000 feet above ground usually blows *along* the isobars and, for the same temperature, pressure and latitude, the speed of the wind is inversely proportional to the distance between the isobars, *e.g.*, for isobars 1 inch apart for the chart on Page 2 the speed of the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

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

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

GEOSTROPHIC WIND SCALE FOR

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



Miles per hour.

This scale applies under the following conditions:—

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

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

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

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

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

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

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

where x is the vapour pressure in mb.;

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

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

t the dry bulb temperature; and

t' the wet bulb temperature.

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

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

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

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

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

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

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AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

MONTHLY SUPPLEMENT, JANUARY, 1931. No 163.

Notes on the Weather of the Month.

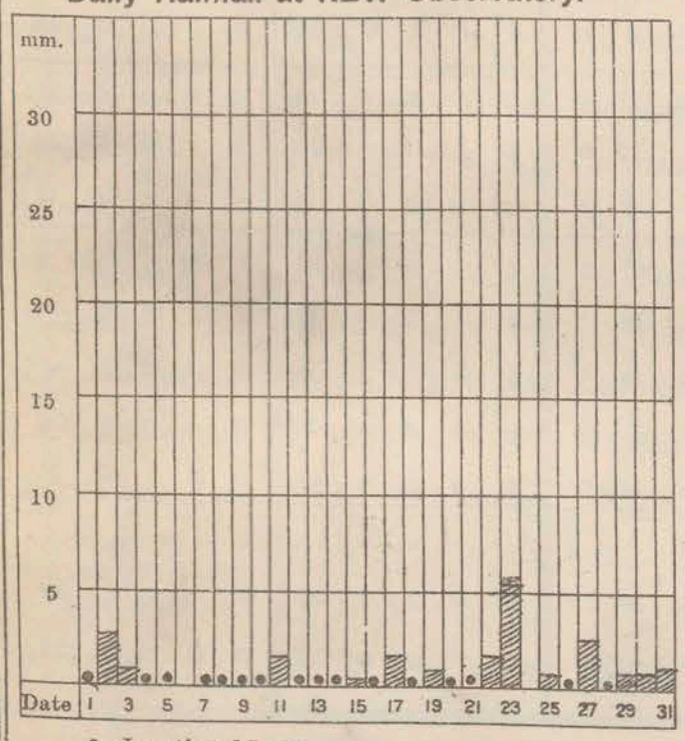
January 1931 was a sunny month particularly in coastal districts and those places in the West and North least affected by the fog which was so prevalent during the first eight days of the month.

A complex low pressure system with various centres passing eastward across the British Isles dominated conditions during the first few days. Fog was thick locally and precipitation occurred at times; hail, sleet and snow in the North on the 1st. and snow at Birmingham and in Cheshire on the 3rd. Rainfall was heavy locally in the South on the 2nd. and 3rd. Subsequently a belt of high pressure developed from Norway to the Azores. Cold anticyclonic weather prevailed in this country with much fog particularly in the Midlands and the Mersey, and, later in Southern England. Sunshine was good during this period at places unaffected by the fog. Day temperature remained below 32°F locally on the 6th, 7th. and 8th.

On the 8th. there began a general southerly drift of the anticyclone, while depressions passed eastward from Iceland and a considerable rise of temperature ensued with unsettled weather. A notable stormy period occurred from the 15th. to 17th. A depression near Iceland moved east-south-east and southwesterly gales veering to west or northwest prevailed over the whole country, with local gusts of 70 m.p.h. or more. Snow occurred in Scotland and locally in Yorkshire. Subsequently depressions passing eastward across the British Isles gave mainly mild, unsettled weather with fairly heavy rain on 22nd. and 23rd. Another very stormy period occurred from the 23rd. to 25th. when westerly to northwesterly gales were general. Sunshine was very good from the 24th. - 27th. particularly in Eastern and Southern England, each day providing some stations with 7 hours or more.

The month closed with further gales, while snow, deep in drifts, occurred in the North and West. Dalwhinnie (Inverness-shire) reported a depth of 4 ft. in drifts.

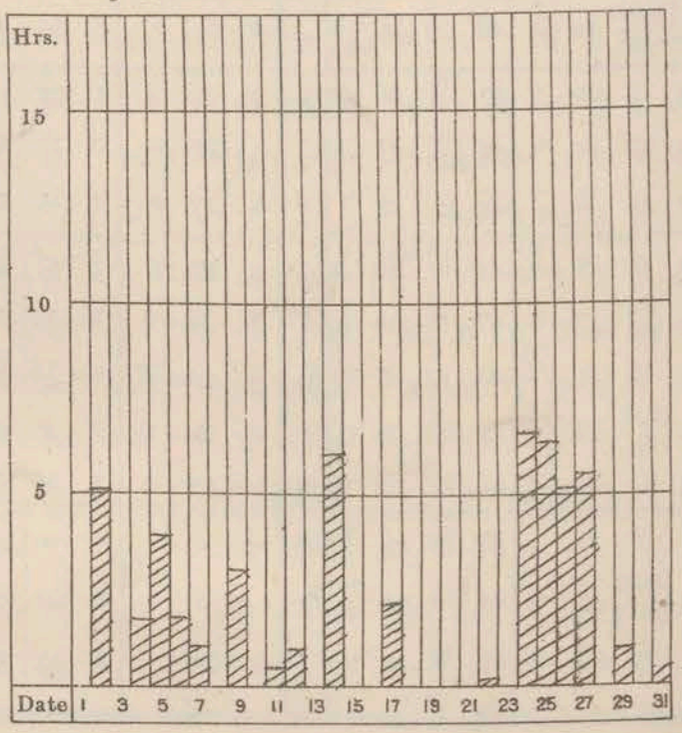
Daily Rainfall at KEW Observatory.



•=Less than 0·5 mm.

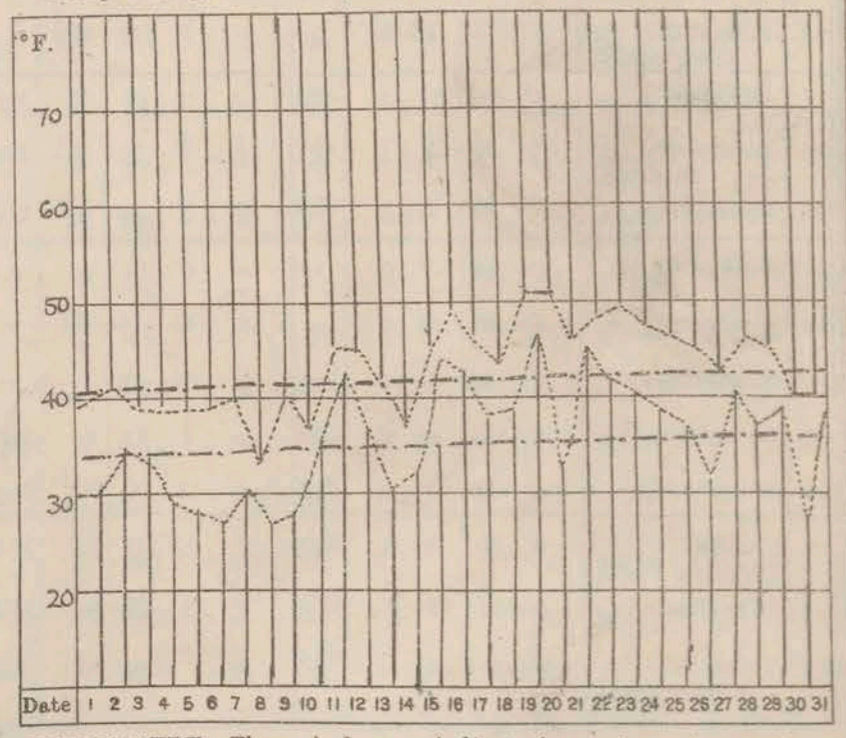
RAINFALL. Total for Month. 27 mm.

Daily Sunshine at KEW Observatory.



SUNSHINE. Total for Month. 54 hrs.

Daily Range of Temperature at KEW Observatory.



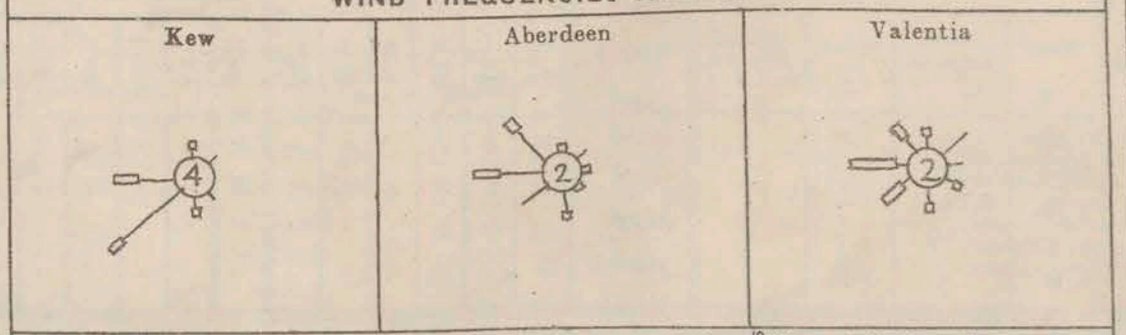
TEMPERATURE. The pecked curves indicate the maximum temperature recorded each day, and the minimum temperature each night throughout the month. The chain lines show normal values.

MEAN VALUES FOR THE MONTH.*

Stations.	Pressure: Mean	Pressure: Difference from average	Temperature: Mean	Temperature: Difference from average
	mb.	mb.	°F.	°F.
Kew	1013·0	−4·6	39·3	+0·3
Aberdeen	1006·5	−4·7	37·7	−0·4
Valentia	1015·6	+0·6	45·1	+0·7

* Pressure — mean for the 24 hours.
Temperature — mean of Max. and Min.

WIND FREQUENCIES AT 7 hr.



Forces 1-3 ——; forces 4-7 ═══; force 8 or above ▬▬. Scale: 10mm. to 10 observations.
The figure in the centre of the circle gives the number of calms.

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

	miles.
Kew ...	6,455
Aberdeen ...	6,241
Lerwick ...	13,619
Valentia ..	10,456

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°	Normal Max.	Minimum. 23° or below	24°–32°	33°–41°	42°–50°	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 ... (Kew Obsy.)	0	13	16	2	43·1	0	12	13	6	34·6	51	19, 20	34	8	46	20	27	7, 9, 31	15	2	24	0	2	23	0	7	23	0	0	4	2	3	8	1	1	3	3	2
	Croydon ...	1	12	17	1	*	0	10	15	6	*	53	19	32	6	46	20	25	9	14	11	13	0	13	12	0	13	12	0	0	1	4	2	3	0	4	5	4	0
	Calshot ... (Southampton)	1	10	18	2	*	0	13	11	7	*	52	19	32	8	44	12, 20, 22	25	9	15	2	23	1	4	20	0	3	21	0	0	0	3	2	17	0	0	1	1	13
	Lympne ...	1	12	18	0	*	0	14	15	2	*	50	19	32	10	44	20	25	9	17	11	13	0	11	15	1	7	13	0	0	0	6	2	7	0	0	2	1	10
2	Shoeburyness	0	12	18	1	42·9	0	17	11	3	33·7	52	19	35	5	44	20	26	21	15	6	17	0	1	26	0	2	22	0	0	1	1	4	20	0	0	1	2	15
	Gorleston ...	0	11	20	0	41·8	0	9	20	2	33·7	50	16, 19, 20	35	8	43	12	30	2, 9, 10	10	6	18	0	1	26	0	1	25	0	0	0	0	0	14	0	0	1	2	7
	Cranwell ...	1	15	15	0	40·8	1	15	14	1	32·8	50	16, 19, 20	32	5	45	16	23	31	14	2	17	3	5	17	2	3	18	4	0	1	7	1	8	0	1	4	4	3
3	Leafield ...	1	14	15	1	*	1	13	15	2	*	51	20	30	7	44	20	21	7	17	4	21	1	5	21	0	4	20	1	0	2	3	3	18	0	0	0	3	18
4	Ross-on-Wye ...	2	9	16	4	43·8	1	11	14	5	33·2	53	19	30	7	46	20, 22	22	7	16	5	20	1	3	23	0	4	20	0	0	2	1	4	16	1	0	1	3	22
5	Falmouth ... (Pendennis)	0	2	25	4	*	0	0	13	18	*	51	20, 23, 27, 28	40	8, 14	48	20	34	8, 9, 14	*	0	31	0	0	30	1	0	31	0	0	0	0	0	28	0	0	0	0	25
7	Holyhead ...	0	2	28	1	45·2	0	0	14	17	38·4	51	16	40	7	47	16, 19	34	27	8	2	27	0	4	25	1	5	25	0	0	0	0	0	22	0	0	0	0	21
8	Liverpool ... (Bidston)	2	10	18	1	43·3	1	5	22	3	35·3	51	16	30	6	45	16, 20	23	7	7	2	25	0	0	27	1	1	28	0	0	3	1	1	25	0	1	4	1	20
10	Tynemouth ...	0	14	15	2	43·5	0	9	20	2	33·6	52	16	36	7	48	16	28	7	18	4	27	0	2	28	0	3	27	0	0	0	0	1	15	0	0	5	0	11
11	Inchkeith ...	0	14	17	0	*	0	8	21	2	*	50	16	35	7, 13	45	16	30	7, 14	7	6	15	1	5	17	2	7	17	3	0	0	0	2	24	0	0	1	2	18
12	Renfrew ...	4	10	17	0	*	4	10	14	3	*	50	15, 16	27	6	47	16	20	1	19	3	26	0	3	25	0	1	24	1	0	1	2	0	17	1	0	4	0	14
	Eskdalemuir ...	4	20	7	0	*	7	14	9	1	*	49	16	31	7	44	16	15	7	22	9	14	0	11	18	0	13	12	0	0	0	1	3	20	0	0	0	1	21
13B	Stornoway ...	0	10	21	0	43·7	0	4	23	4	34·9	49	11, 15, 16	36	13, 18	48	16	30	13	*	0	31	0	0	31	0	0	31	0	0	0	0	0	27	0	0	0	0	25
15	Aberdeen ...	0	20	10	1	42·3	0	13	16	2	33·2	52	16	34	13, 18	44	16	25	7	19	1	19	0	2	25	0	1	21	0	0	0	0	0	20	0	0	1	0	21
19	Dublin ... (Phœnix Park)	0	9	18	4	45·7	3	13	13	2	34·6	52	31	37	3	47	19	21	7	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birr Castle ...	0	10	18	3	45·2	0	9	16	6	34·3	52	16, 27, 31	35	6	48	19	24	7, 14	16	1	15	0	0	20	0	0	24	0	0	0	2	0	28	0	0	0	0	24
20	Valentia ... (Cahirciveen)	0	0	25	6	48·5	0	1	12	18	40·2	53	27	42	2	48	19	28	14	3	6	23	0	6	22	2	7	22	1	0	0	0	0	25	0	0	0	0	28

UPPER AIR TEMPERATURE.

Pressure. mb.	Normal Height. Feet.	Normal Temperature. °F.	Duxford. Mean. °F.	No. of Reports.	S. Farnborough. Mean. °F.	No. of Reports.	Aldergrove. Mean. °F.	No. of Reports.
950	1800	33	39	12	36	10	31	2
850	4,690	26	31	12	25	10	17	2
750	7,910	18	22	12	16	9	7	2
650	11,510	7	10	12	3	7	−1	2
550	15,620	−6	−4	12	−10	5	−16	1

UPPER WINDS.

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

Station.	Lympne Height. Feet.	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		44	4	17	19	4	-	29	6	11	10	2	-	53	7	29	13	4	-	19	2	11	6	-	-	2,000
5,000		12	2	7	3	-	-	8	4	1	2	-	1	26	3	15	6	2	-	6	-	4	1	1	-	5,000
10,000		-	-	-	-	-	-	-	-	-	-	-	-	8	1	4	3	-	-	-	-	-	-	-	-	10,000
15,000		-	-	-	-	-	-	-	-	-	-	-	-	3	1	1	1	-	-	-	-	-	-	-	-	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 JANUARY, 1931.

District.	Stations.	Sunshine: 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.	Difference from average.	Total for Month.	Difference from average.	Highest and Lowest Totals on record for Month: First year of record.	Highest.	Year.	Lowest.	Year.	Days with Thunder.	Days with Snow or Sleet.
							Hours.		Hours.	Hours.	Hours.	Hours.		Hrs.		Hrs.			
1	London ... (Kew Obsy.)	14	9	4	4	0	6·6	24	1410	−65	54	+11	1880	74	'91 '05	16	'85	0	2
	Croydon ...	17	8	5	1	0	6·3	27	1423	*	39	*	1922	67	'27	27	'29	0	3
	Calshot** ... (Southampton)	13	5	9	4	0	8·0	26	1730	*	81	*	1881	93	'91	19	'85	0	2
	Lympne ...	14	8	4	5	0	6·6	24	1735	*	62	*	1921	77	'23	39	'29	0	4
2	Shoeburyness	10	11	7	3	0	6·7	14	1713	*	60	*	1919	77	'23	38	'29	0	3
	Gorleston ...	17	6	5	3	0	6·9	27	1584	−121	56	0	1908	84	'10	27	'15	0	4
	Cranwell ...	13	9	8	1	0	6·9	27	1459	−89	54	+4	1921	64	'24	37	'29	0	6
3	Leafield ...	10	9	8	4	0	7·5	25	1423	*	70	*	1924	71	'28	42	'29	0	5
4	Ross-on-Wye ...	6	15	6	4	0	8·0	26	1403	−83	76	+30	1914	75	'28	34	'21	0	3
5	Falmouth ... (Observatory)	7	10	10	4	0	7·2	14	1703	−56	81	+23	1881	87	'95	22	'84	1	0
7	Holyhead ...	8	12	10	1	0	6·2	30	1545	−61	64	+19	1914	67	'28	29	'14	0	0
8	Liverpool ... (Bidston)	11	7	12	1	0	6·2	30	1263	−193	61	+6	1908	88	'10	21	'17	0	2
10	Tynemouth ...	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	4
11	Inchkeith** ...	9	11	11	0	0	5·9	13	1456	*	71	*	1923	54	'28	38	'25 '26 '29	0	4
12	Renfrew ...	13	10	8	0	0	6·0	13	1135	*	49	*	1921	47	'28	19	'25	0	4
	Eskdalemuir ...	11	11	7	2	0	6·6	30	1161	−54	56	+24	1910	48	'23 '29	12	'13	0	17
13B	Stornoway ...	11	16	4	0	0	5·7	29	1310	+51	32	+4	1881	51	'83	12	'07	1	2
15	Aberdeen ...	7	13	10	1	0	6·4	27	1424	+37	63	+15	1881	85	'81	15	'85	0	12
19	Dublin ... (Phœnix Park)	8	11	12	0	0	6·0	26	1443	−64	73	+16	1881	91	'91	21	'14	0	*
	Birr Castle ...	7	13	11	0	0	5·3	24	1202	−141	59	+10	1881	91	'97	24	'84	0	0
20	Valentia ... (Cahirciveen)	8	16	6	1	0	6·3	13	1361	−84	48	0	1880	128	'81	16	'98	0	0

Stations.	Rainfall: ‡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.	Difference from Average.	Total for Month.‡	Difference from Average.	Highest and Lowest Totals on record for Month: First year of record.	Highest.	Year.	Lowest.	Year.
							mm.		mm.	mm.	mm.	mm.		mm.		mm.	
London (Kew)	12	11	7	1	0	0	6	23	601	−5	27	−18	1871	124	'77	11	'92
Croydon	12	9	8	2	0	0	12	23	652	−27	44	−8	1921	91	'28	29	'29
Calshot** (Southampton)	11	7	10	3	0	0	11	23	708	+62	54	+2	1871	207	'06	14	'98
Lympne	8	11	10	1	1	0	20	23	844	+120	64	+8	1920	110	'28	30	'29
Shoeburyness	12	9	9	1	0	0	6	23	563	+83	31	−2	1920	58	'28	24	'29
Gorleston	10	5	14	2	0	0	11	29	743	+121	55	+11	1871	123	'22	3	'80
Cranwell	12	6	10	3	0	0	11	29	696	+106	58	+14	1917	83	'19	30	'29
Leafield	10	11	8	2	0	0	8	31	690	−4	41	−12	1924	118	'26	29	'29
Ross-on-Wye	14	8	8	1	0	0	5	22 31	720	+2	35	−27	1818	156	'69	7	'55 '98
Falmouth (Observatory)	8	7	8	6	2	0	21	22 31	1176	+69	114	+7	1871	246	'75	25	'80
Holyhead	11	4	11	5	0	0	11	22	970	+82	66	−8	1871	190	'77	19	'80
Liverpool (Bidston)	6	10	10	5	0	0	7	1 21	886	+177	62	+8	1867	116	'28	16	'11
Tynemouth	11	6	10	4	0	0	11	29	726	+105	58	+17	1915	98	'21	20	'16
Inchkeith**	17	4	8	2	0	0	9	18	623	+69	40	+6	1870	114	'77	9	'91
Renfrew	9	6	9	5	2	0	16	22 31	1032	+107	97	+9	1921	241	'28	42	'29
Eskdalemuir	8	5	9	8	1	0	21	22	1585	+156	130	−7	1910	394	'28	56	'29
Stornoway	2	3	11	13	1	1	45	31	1136	−130	193	+62	1870	373	'72	33	'81
Aberdeen	8	10	9	3	0	1	27	31	870	+122	78	+23	1871	108	'03	16	'05
Dublin (Phœnix Park)	12	8	10	1	0	0	9	30	923	+218	43	−15	1877	102	'20	14	'07
Birr Castle	10	9	10	2	0	0	8	19	895	+66	47	−25	1872	148	'90	17	'81
Valentia (Cahirciveen)	7	4	13	7	0	0	13	31	1464	+50	81	−58	1870	269	'13	53	'81

MINIMUM SURFACE HUMIDITY.

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

Stations.	90 to 100 %	80 to 89 %	70 to 79 %	60 to 69 %	50 to 59 %	40 to 49 %	30 to 39 %	20 to 29 %	10 to 19 %
London (Kew)	1	9	9	8	3	1	0	0	0
Ross-on-Wye	2	6	9	12	2	0	0	0	0
Falmouth (Obsy.)	1	7	6	14	3	0	0	0	0
Renfrew ...	5	6	11	7	2	0	0	0	0
Eskdalemuir	3	8	9	11	0	0	0	0	0
Aberdeen ...	1	6	10	13	1	0	0	0	0
Valentia ...	0	3	4	15	8	1	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	25	0	0	5	0	1	0	0	0
Ross-on-Wye	0	25	0	0	5	0	1	0	0	0
Renfrew ...	0	18	6	0	6	1	0	0	0	0
Eskdalemuir	0	16	0	1	6	0	5	0	3	0
Aberdeen ...	0	17	0	1	5	5	0	1	2	0
Valentia ...	0	31	0	0	0	0	0	0	0	0

CODE for State of Ground.

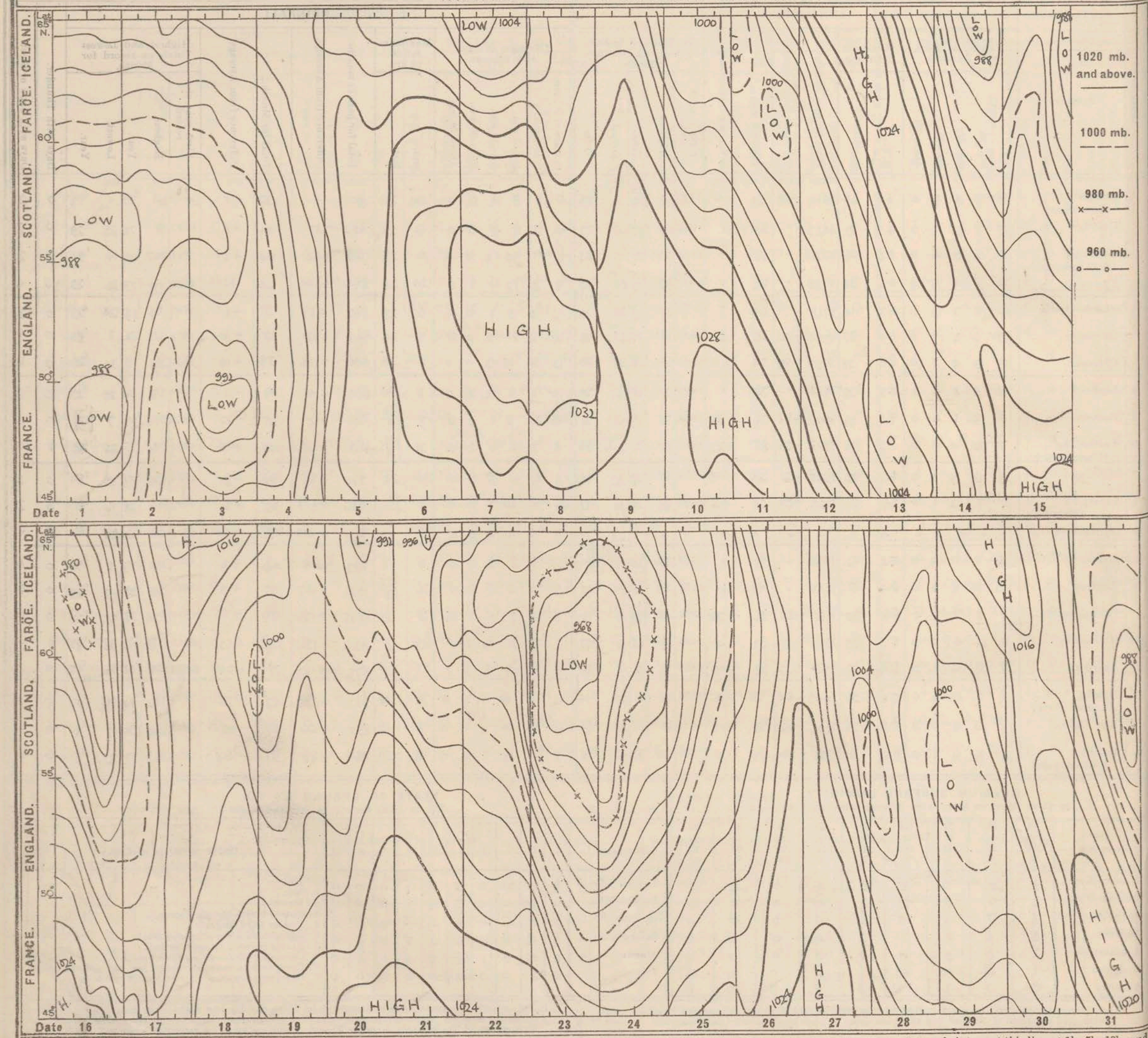
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

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

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

PRESSURE: ICELAND TO GULF OF LIONS ..... JANUARY, ... 1931

ISOPLETHS* BASED ON SIX-HOURLY OBSERVATIONS.



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

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

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Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Thursday 1st January 1931.
No. 25242

OBSERVATIONS at 13h. G.M.T. 31st Dec.

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)...	977.2	0	–	0	o/r	44	95	4	5	–	–	10	10	1500
	Croydon ...	978.1	-2	SW'S	3	dodo	42	95	5	5	–	–	10	10	800
	S. Farnborough	977.0	+2	WNW	2	o mo	45	95	5	5	–	–	10	10	450
	Winchester ...	978.6	+22	NW'W	5	rr	44	95	6	6	2	–	9+	10	450
	Boscombe Down	979.8	+30	NNW	6	o/r	38	95	6	5	–	–	10	10	450
	Calshot, S'thmtn	977.9	+4	NW	6	roro	42	95	5	6	–	–	10	10	800
	Dungeness ...	*	*	SW	4	pr	*	*	7	6	7	–	4-6	7-8	1500
	Lympne ...	978.4	-10	SSW	4	br	44	85	6	9	–	–	9	9	1500
2	Shoeburyness	977.8	-10	SW	2	c	46	85	8	5	8	–	7-8	9	1500
	Felixstowe ...	978.7	-10	S	3	c	46	95	8	5	–	–	9	9	4000
	Gorleston ...	978.6	-4	SSW	2	c	46	95	6	6	2	–	4-6	9+	2500
	Cranwell ...	980.4	+14	N'W	5	ir	41	95	6	6	–	–	10	10	800
3	Cardington ...	978.4	+10	N'E	4	dr	45	95	5	6	–	–	10	10	450
	Birmingham ...	982.9	+40	NNW	5	rr	38	95	4	6	–	–	10	10	800
	Upper Heyford	979.8	+30	NNE	4	roro	42	95	5	6	–	–	10	10	450
	Leafield ...	980.3	+26	NNW	7	RR	39	95	6	6	–	–	10	10	450
4	Ross-on-Wye ...	984.5	+50	NW'N	4	iro	40	85	8	6	–	–	10	10	2500
5	Portland Bill...	981.9	+44	WNW	8	iR	42	85	7	6	–	–	10	10	1500
	Plymouth ...	990.6	+42	NW	8	bc	45	65	8	9	–	1	2-3	2-3	1500
	Falmouth ...	993.4	+20	NW	6	bc	46	65	8	2	–	–	4-6	4-6	4000
	Scilly (St. Mary's)	995.3	+20	NW'N	6	bc	48	75	8	2	–	1	2-3	4-6	4000
	Guernsey ...	988.8	+26	WNW	7	cq	47	65	7	5	–	–	9+	9+	2500
6	Pembroke ...	990.6	+30	NW	5	bcq	48	75	8	8	8	–	2-3	4-6	2500
7	Holyhead ...	990.1	+20	N	5	c	44	75	8	7	3'	8	1	7-8	2500
	Chester (Sealand)	986.4	+34	NW'N	5	c/pr	42	85	8	5	7	–	4-6	9	2500
8	L'pool (Bidston)	986.6	+34	NW	5	c	41	85	7	5	–	–	9+	9+	1500
9	Harrogate ...	983.0	+6	N'W	3	c/r	40	95	7	6	–	–	9+	9+	2500
10	Spurn Head ...	979.5	+4	N	5	c	42	95	6	3	2	8	4-6	10	4000
	Tynemouth ...	984.6	+4	N	4	bc	43	75	8	9	–	–	4-6	4-6	2500
11	Inchkeith ...	988.5	+4	WSW	2	bc	36	85	6	1	8	1	Tr.	2-3	4000
	Leuchars ...	988.5	-2	W	1	b	39	75	8	2	3	1	Tr.	1	4000
12	Renfrew ...	990.2	+4	WSW	1	bzo	37	75	5	–	–	–	0	0	–
	Eskdalemuir ...	987.9	+2	N'E	3	bc	36	85	8	5	–	8	Tr	4-6	1500
13A	Tiree ...	989.9	+6	N'W	4	bc/pr	42	85	9	8	–	4	4-6	4-6	1500
13B	Stornoway ...	987.9	-4	NW	2	bc	43	75	8	3	6	–	2-3	4-6	4000
15	Dalwhinnie ...														
	Aberdeen ...	988.5	-2	NW	2	b	33	85	8	2	5	–	Tr.	1	4000
	Wick ...	987.1	+4	SSW	3	bc	40	95	8	8	7	–	4-6	4-6	2500
16	Lerwick ...	988.5	+6	SE	2	bc	42	85	8	8	6	–	4-6	4-6	2500
17	Blacksod Point	993.0	+4	SSW	3	bc	44	85	8	3	–	–	4-6	4-6	800
18	Malin Head ...	989.8	+4	N'W	4	cjp	44	95	8	3	8	–	7-8	7-8	2500
	Aldergrove ...	990.7	0	SW'S	2	bc	42	75	8	5	4	–	1	2-3	2500
	Donaghadee ...	989.4	+10	NW	2	bc	44	85	8	3	–	8	4-6	4-6	4000
19	Birr Castle ...	993.0	+4	WNW	1	c	41	85	8	5	–	–	9	9	2500
20	Valentia Obsy.	995.1	-12	NW'W	3	bc	46	95	8	8	–	8	4-6	4-6	1500
	Roches Point...	994.4	-10	N	3	bc	45	75	8	5	–	–	2-3	2-3	1500

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0-12 (18)	Weather (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0-10 (26)	Cloud Amount Total 0-10 (27)	Height of Base (feet) (28)	State of Ground 0-9 (29)	Sea 0-9 (30)
1	London (Kew)...	986.9	+60	NW'W	3	o	43	85	6	5	–	–	10	10	1500	1	*
	Croydon ...	986.2	+56	NW'N	4	ido	42	85	5	5	–	–	10	10	800	1	*
	S. Farnborough	986.1	+66	NW	4	o/r	41	85	7	6	–	–	10	10	1500	2	*
	Winchester ...	989.8	+54	WNW	5	c	40	95	7	5	2	–	7-8	9	1500	1	*
	Boscombe Down	990.5	+52	NW	1	c	38	85	7	5	–	–	7-8	7-8	2500	1	*
	Calshot, S'thmtn	990.1	+60	NW'W	5	c	41	75	7	5	–	–	7-8	7-8	1500	1	3
	Dungeness ...	*	*	NW	3	om	*	*	4	5	–	*	10	10	1500	*	2
	Lympne ...	982.8	+40	NW	5	dd	43	95	5	5	–	–	10	10	800	1	*
2	Shoeburyness	984.0	-50	NW'N	6	rr	42	95	7	6	–	–	10	10	800	1	*
	Felixstowe ...	982.6	+26	NW'N	4	rr	44	95	6	6	–	–	9	9	2500	1	3
	Gorleston ...	981.0	+24	NNW	4	roro	45	95	6	6	–	–	10	10	1500	1	2
	Cranwell ...	985.7	+28	NW'N	4	b	38	95	6	5	–	–	Tr.	Tr.	1500	1	*
3	Cardington ...	985.8	+44	NNW	4	c	42	85	6	5	–	–	9+	9+	1500	2	*
	Birmingham ...	989.3	+30	NW	4	b	38	95	5	1	3	–	Tr.	1	2500	1	*
	Upper Heyford	988.2	+42	NNW	5	cmo	40	85	6	5	–	–	9	9	800	1	*
	Leafield ...	988.8	+40	NW'N	6	bc	37	85	7	5	–	–	4-6	4-6	2500	1	*
4	Ross-on-Wye ...	990.8	+16	SW'W	3	b	37	85	8	5	–	–	1	1	4000	1	*
5	Portland Bill...	991.0	+32	NW'W	4	bc	45	75	8	1	–	–	2-3	2-3	2500	2	3/4
	Plymouth ...	993.8	+8	NW	1	b	42	75	8	2	–	1	Tr.	1	2500	2	2
	Falmouth ...	995.6	0	WSW	3	bc	42	85	8	8	3	–	4-6	4-6	4000	0	2
	Scilly (St. Mary's)	994.3	-6	–	0	bc	43	85	8	1	–	–	4-6	4-6	4000	0	3
	Guernsey ...	994.4	+18	WNW	4	bc	46	65	7	5	–	–	4-6	4-6	2500	1	4
6	Pembroke ...	992.2	+16	NW	3	bc	43	85	8	8	8	–	4-6	4-6	2500	1	3
7	Holyhead ...	991.5	+6	NW'N	4	bc	43	75	8	7	–	–	2-3	2-3	2500	1	2
	Chester (Sealand)	989.6	+8	NW	4	b	39	85	6	–	–	–	0	0	–	2	*
8	L'pool (Bidston)	989.0	+4	NW'W	4	b	40	95	8	–	–	–	0	0	–	0	*
9	Harrogate ...	987.2	+14	W	2	b	36	85	7	–	–	1	0	Tr.	–	1	*
10	Spurn Head ...	983.2	+12	N'W	5	c	41	95	7	3	3	–	4-6	7-8	4000	1	5
	Tynemouth ...	986.6	+14	NW	3	bc	37	85	7	2	–	–	2-3	2-3	2500	1	3
11	Inchkeith ...	988.8	+2	SW	2	b	35	95	5	–	1	–	0	1	–	0	0
	Leuchars ...	988.8	+2	WSW	2	b	31	85	8	–	3	–	0	Tr.	–	4	*
12	Renfrew ...	989.8	-6	–	0	b	29	95	6	–	–	–	0	0	–	4	*
	Eskdalemuir ...	989.2	-2	–	0	b	27	85	8	–	–	–	0	0	–	4	*
13A	Tiree ...	989.4	-4	NNW	2	bc	43	75	9	2	–	–	2-3	2-3	2500	0	3
13B	Stornoway ...	987.4	0	WNW	1	c	38	95	8	9	–	–	7-8	7-8	4000	1	!
15	Dalwhinnie ...																
	Aberdeen ...	988.1	-2	NW'W	2	b	31	85	6	2	4	–	1	1	4000	4	2
	Wick ...	987.8	+2	SW	2	c	38	95	8	8	1	–	4-6	7-8	1500	1	2
16	Lerwick ...	989.3	+6	SE	2	cjp	40	85	7	8	–	–	7-8	7-8	1500	0	*
17	Blacksod Point	992.3	-2	–	0	bc	41	95	8	5	–	–	2-3	2-3	2500	0	4
18	Malin Head ...	989.9	-2	N	4	bc	44	95	8	2	–	–	4-6	4-6	2500	0	2
	Aldergrove ...	990.6	-2	–	0	bc	36	95	7	5	4	–	1	2-3	1500	1	*
	Donaghadee ...	989.6	+2	NNW	2	bc	39	85	7	5	2	–	4-6	4-6	2500	0	1
19	Birr Castle ...	991.9	0	NW	1	c	39	95	7	5	–	–	9+	9+	2500	1	*
20	Valentia Obsy.	991.6	-18	E	1	c	41	95	8	5	1	8	2-3	10	2500	1	3
	Roches Point...	993.1	-10	NW	3	bc	43	75	8	3	–	–	4-6	4-6	1500	4 1	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)...	coro m	cmor omo	bmo	bmxbFx
	Croydon ...	cd prod m	odd ff d m	o d b bcm	bcbxcm
	S. Farnborough	crorco	orrcroc	cb, bc	bcx cx
	Winchester ...	oirmo	oRrrmoc	cbc	bcc
	Boscombe Down	odd roro rq m	orrqm cprc	cbcbbc	bcc
	Calshot, S'thmtn	crorrorrmo	oroᵒro ⊕moc	cbc bbx	cxwmo
	Dungeness ...	b	f-3	*	bc
	Lympne ...	orcpr	cpr codd	cbbc mo	cbcmoxo
2	Shoeburyness	cido	cor	orc	bcbfx
	Felixstowe ...	crc	bccrmq	crrqbc	bcbmo
	Gorleston ...	coiroc	cororo	oirobcq	bcxmo
	Cranwell ...	rofrorrirо	romo b	bmom	bmox
3	Cardington ...	croidocdrm	oridrrc	cbcmo	bwbcmo
	Birmingham ...	oFrrm	ormb	b	b
	Upper Heyford	orrcroor	ororrcmo	mobcbx	bbcfx
	Leafield ...	cidiforr	oRrcbc	bcb	bxbc
4	Ross-on-Wye ...	poorrriro	cb bcb	b f x	bmx fx
5	Portland Bill...	orrRRiRzo	oiRcbc	c	c
	Plymouth ...	ororyb	bcq b	b,c	c
	Falmouth ...	cpo bcq	bcq	bcc	coRro
	Scilly (St. Mary's)	cbc	bcc	bccor	orrc
	Guernsey ...	oprcq	cq, bc	bccpr	orr
6	Pembroke ...	orrbcq	bc	bccpo	cpo
7	Holyhead ...	rrcroqc	bcb	bbc, prbc	bcc
	Chester (Sealand)	orrmroc	probcbmo	bmobx	xcx
8	L'pool (Bidston)	roiro	cb	b	bcrbc
9	Harrogate ...	ocrriro	ciro b	b	bx
10	Spurn Head ...	ofrc	cpr	cprbc	bcx
	Tynemouth ...	obcpq	bc	bc	bc
11	Inchkeith ...	bc	bcb	bcff	bbcff
	Leuchars ...	bx	bx	bx	bx
12	Renfrew ...	bxmo	bxmo	bmofx	[illegible]
	Eskdalemuir ...	cidobc	bcbx	bx	bx
13A	Tiree ...	bc pro	b	bcc	bcc
13B	Stornoway ...	bc	bc	bc, cpr csc	cpr co
15	Dalwhinnie ...				
	Aberdeen ...	bxmzo	bzo	bzox	bx
	Wick ...	bc	bcrrc	cbc	bc
16	Lerwick ...	bc	bccphr	cphr	corofo
17	Blacksod Point	pc	bc	pc	pc
18	Malin Head ...	bcpro	cpobc	bcpro	cbcpro
	Aldergrove ...	bc-b	b,c,bx	bxf	fx
	Donaghadee ...	cbc	bc	cproc	cbcbx
19	Birr Castle ...	bcc	cbcc	cff bx	bxff
20	Valentia Obsy.	bc	bccpo	c	cbcbx
	Roches Point...	bc	bc	bccw⊕	cw

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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

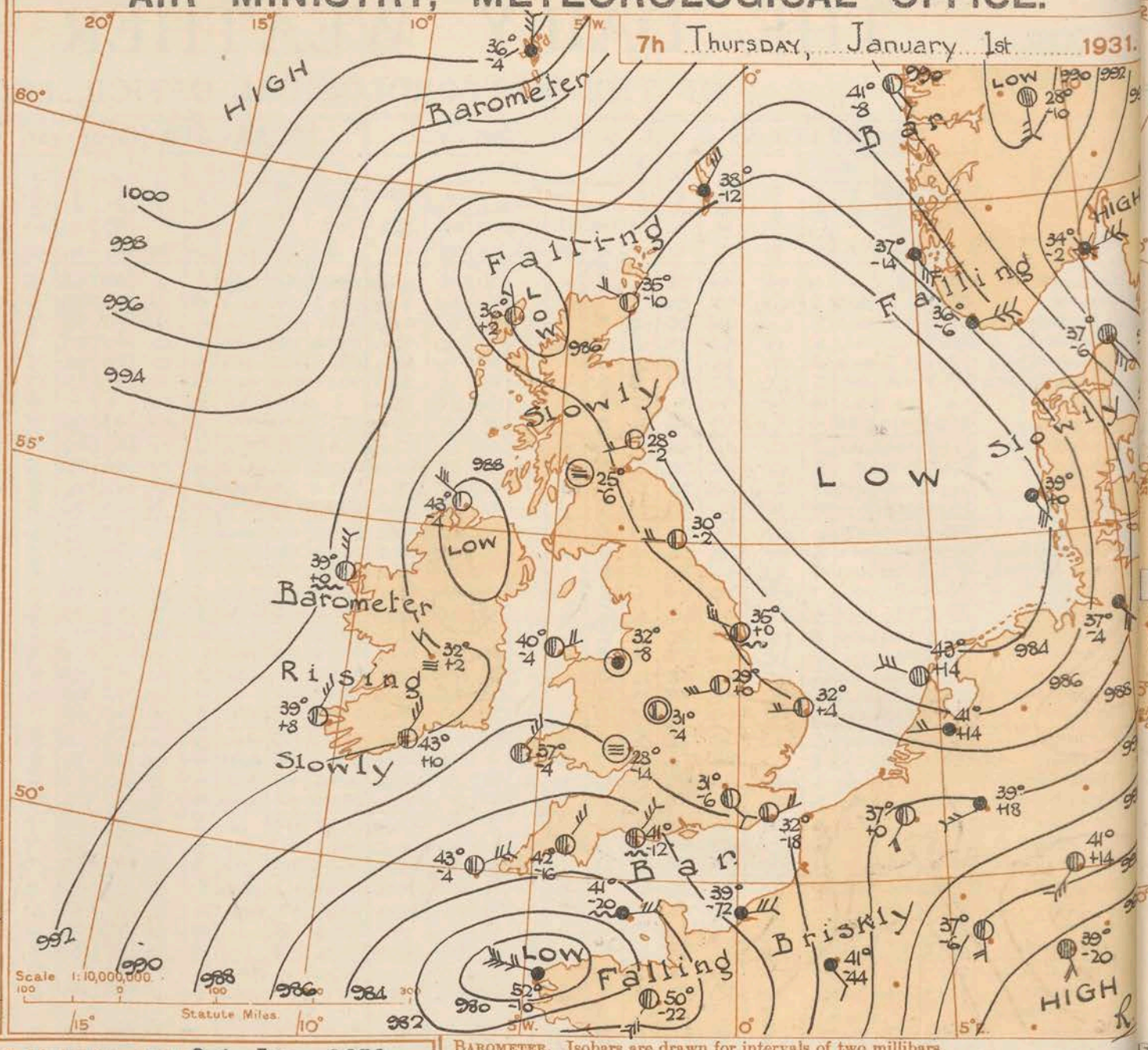
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 31st DECEMBER, 1930.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	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.	coro	oro	38	46	5	1	0·2
	Bournemouth	r	roro	40	42	4	5	0.0
	Ventnor ...	orour	orpoc	42	44	3	5	0.0
	Southsea ...	oir	oir	42	44	1	3	0.0
	Bognor Regis	oir	oir	42	46	3	2	0.0
	Littlehampton	c	cpc	42	47	2	2	0·2
	Worthing ...	or	or	42	47	3	3	0.0
	Brighton ...	crco	cor	42	47	4	1	0.0
	Eastbourne†	iriroc	co	46	51	11	0·2	0.7
	Hastings† ...	coroc	bco	45	50	11	1	0·9
	Folkestone ...	oiroc	cbcc	41	48	10	1	1·4
	Dover... ...	cpoc	cproc	36	49	9	0·2	0·9
	Deal	od bc	bcc	40	49	11	Trace	2·3
	Ramsgate ...	cd	dcbc	41	46	3	0·2	2·7
	Margate ...	bcp	bc	43	49	3	Trace	2·5
2	Southend ...	c	cmor	39	45	1	Trace	0·2
	Maldon ...	cdc	cor	42	47	1	0·3	0·1
	Clacton-on-Sea	cbccp	cpc	43	45	1	1	0.7
	Dovercourt ...	roc	bcd	40	48	1	Trace	1·0
	Lowestoft ...							
	Skegness ...	rdF	deom	36	43	5	0·2	0.0
	Mablethorpe	orm	orm	36	43	10	0.5	0.0
	Cleethorpes ...	iro	roro	35	43	4	2	0.0
3	Leamington S.	or	oro	38	43	14	2	0.0
4	Cheltenham†	omorr	orcbc	43	45	6	13	0.0
5	Bath	crr	rrcbc	40	46	2	12	0.0
	Weymouth ...	rr	pqc	40	44	7	4	0·3
	Jersey ...	rc	bc	44	49	3	2	1·0
	Torquay ...	Rpqm	Rrpcb	42	45	8	6	1·5
	Penzance ...	b	bc	42	48	2	-	4.9
	St. Ives ...	c	c	42	48	2	-	4·2
	Bude	pbc	bc	38	48	3	-	2·8
	Ilfracombe ...	or	oc	43	46	12	1	0·3
6	Aberystwyth	p rr	cirbc	39	44	15	3	0·1
7	Llandudno ...	oir	cbcb	35	44	12	1	0·2
	Colwyn Bay...	rror	obbcb	34	43	12	1	0.0
	Rhyl	ogrdc	cbcb	36	43	9	0.4	0.0
8	Wallasey ...	roc	cbcb	35	42	9	-	0.1
	Southport‖ ...	oco	obcb	36	41	13	-	0·5
	Blackpool ...	rroc	bcb	37	42	14	-	0.4
	Morecambe ...	rrc	cbc	37	42	7	-	0.7
9	Ilkley... ...	ro	cbc	34	41	12	Trace	0.0
10	Berwick-on-T.	ocR	c	33	42	1	5	0.0
11	Dunbar ...	cx	bcb	32	39	-	-	1·2
12	Douglas ...	oRR	cbbc	37	41	15	0·3	2·9

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 1st Jan. 1931
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Light variable breeze; fog becoming widespread, dense in places; otherwise fair; cold, sharp frost night and morning.
5. S.W. England 6. South Wales	Wind northeast, moderate or fresh, becoming variable, light; mainly fair; local morning fog; cold, frost at night.
7. North Wales 8. N.W. England 9. N. Midlands	Light variable wind; variable sky, local wintry showers; local fog; cold, frost at night.
10. N.E. England 11. S.E. Scotland	Light west to northwest wind; fair; local fog; cold and frosty.
12. S.W. Scotland & Isle of Man	As 6 - 9.
13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland 15. N.E. Scotland	Light or moderate northwest wind; variable sky, wintry showers; cold, frost at most places.
16. Orkneys and Shetlands.	Light or moderate northerly wind; cloudy, rain at times; rather cold.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Light northerly to variable wind; fair apart from local wintry showers; local fog; cold, frost at night.

GENERAL INFERENCE.

A small depression over Brittany is moving east-southeast and conditions are indefinite over the British Isles. Winds will be variable, light or moderate, and weather mainly fair; showers will occur locally in the northwest and extreme north and fog will become increasingly prevalent.

FURTHER OUTLOOK.

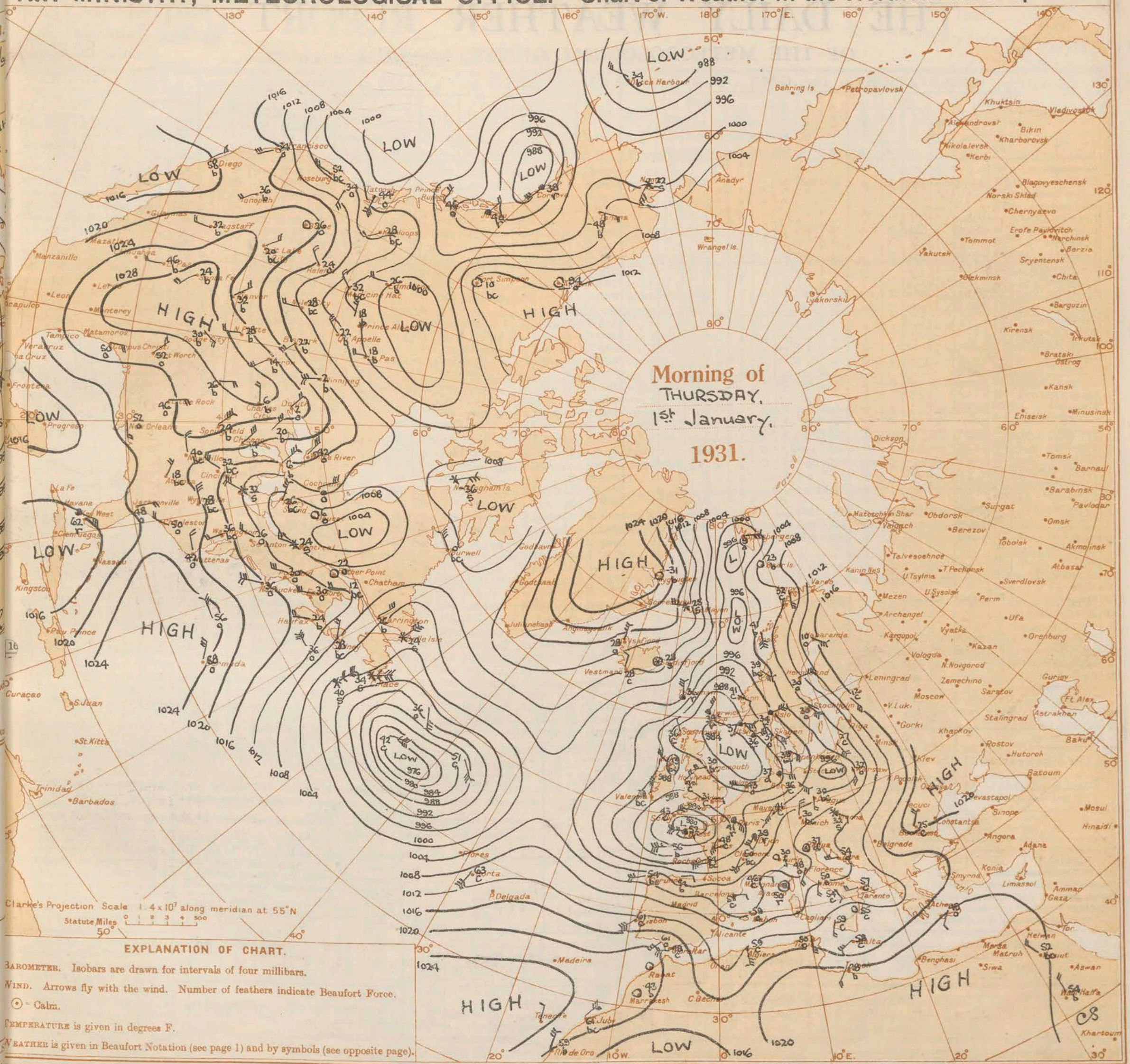
Fog and frost in many districts throughout tomorrow.

Forecasts issued at 1000 G.M.T

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

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday 1st January 1931.

No. 25242

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

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	990.3	0	WSW	3	z	35	95	6	–	–	1	0	4.6	–
	S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Winchester	275	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Boscombe Down	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Calshot, S'thmtn	8	990.8	-6	SW'W	2	c	36	95	7	–	–	6	0	7.8	–
	Dungeness	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Lympne	346	989.4	+10	WNW	3	z	36	95	6	–	3	–	0	7.8	–
2	Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Felixstowe	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Gorleston	14	987.0	+8	WNW	3	bc	38	95	6	4	–	–	4.6	4.6	2600
	Cranwell	240	988.5	+4	W	3	b	32	95	5	–	–	1	0	1	–
3	Cardington	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Birmingham	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Upper Heyford	408	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4	Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5	Portland Bill	32	989.3	-10	NE	3	c	41	75	8	4	7	–	7.8	9	2500
	Plymouth	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Falmouth	200	988.4	-12	E'S	4	c	46	75	3	5	–	–	9	9	4000
	Scilly (St. Mary's)	163	986.8	-22	SE	5	rr	43	95	6	6	–	–	10	10	2500
	Guernsey	173	987.5	-20	S	2	ir.	46	85	7	6	–	–	10	10	1500
6	Pembroke	142	988.5	-12	ENE	2	c	40	95	7	8	1	–	4.6	9+	1500
7	Holyhead	26	990.4	-14	–	0	bc	40	85	7	4	–	1	4.6	4.6	2500
	Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8	L'pool (Bidston)	198	•	•	•	•	•	•	•	•	•	•	•	•	•	•
9	Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10	Spurn Head	67	986.2	+2	NW'W	5	bc	37	95	6	5	–	1	2.3	2.3	4000
	Tynemouth	29	987.5	-2	W	2	bc	33	96	7	5	–	–	2.3	2.3	1500
11	Inchkeith	190	988.2	-4	W	3	f	33	95	3	–	–	–	0	0	–
	Leuchars	35		•	•	•	•	•	•	•	•	•	•	•	•	•
12	Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
13A	Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
13B	Stornoway	34	985.8	-6	WNW	1	c	38	95	7	9	8	–	4.6	7.8	4000
15	Dalwhinnie	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Wick	81	987.3	0	SW	2	bc	36	95	8	5	1	–	4.6	4.6	2500
16	Lerwick	54	988.6	-2	E	3	c/phl(r)	40	95	7	8	1	–	4.6	9+	1500
17	Blacksod Point	10	991.6	-4	SW	3	bc	42	85	7	3	–	–	4.6	4.6	800
18	Malin Head	51	988.5	-8	W	2	pb.	38	95	7	3	–	–	7.8	7.8	1500
	Aldergrove	238														
	Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
19	Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
20	Valentia Obsy.†	30	989.3	0	W'S	1	c	41	85	7	8	–	–	10	10	4000
	Roches Point	22														

OBSERVATIONS at 7 hr. G.M.T. 1st January

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)	988.6	-16	–	0	F	32	95	1	–	5	–	0	2.3	–	1	*
	Croydon	989.7	-6	ESE	1	z	31	95	5	–	3	–	0	7.8	–	4	*
	S. Farnborough	988.4	-18	–	0	m	31	95	4	5	3	1	7.8	9+	5700	1	*
	Winchester	987.6	-24	NE'N	2	c	33	96	6	–	7	–	0	9+	–	4	*
	Boscombe Down	987.6	-10	E	3	c	34	85	7	5	–	–	9	9	4000	4	*
	Calshot, S'thmtn	987.1	-18	NE'N	3	c	37	85	6	5	–	6	4.6	7.8	2500	1	1
	Dungeness	*	*	~~WSW~~ N	1	c	*	*	7	5	–	*	~~7.8~~ 6	~~7.8~~ 6	2500	*	1
	Lympne	988.0	-18	E'N	2	z	32	96	6	5	7	–	2.3	4.6	4000	1	*
2	Shoeburyness	988.9	-14	–	0	f	29	96	2	5	–	–	2.3	2.3	1500	4	*
	Felixstowe	989.1	0	NW	1	z	34	95	5	5	–	1	2.3	2.3	4000	1	1
	Gorleston	988.1	+4	W	2	bc	32	95	6	–	6	–	0	4.6	–	4	2
	Cranwell	988.4	0	W'S	3	bc	29	96	5	–	–	5	0	2.3	–	4	*
3	Cardington	988.6	-2	WSW	1	bc	30	95	6	5	3	8	2.3	4.6	4000	1	*
	Birmingham	989.1	-4	–	0	bc	31	95	5	–	–	1	0	2.3	–	1	*
	Upper Heyford	988.7	-14	NE	1	im	29	95	4	–	7	–	0	4.6	–	5	*
	Leafield	987.9	-12	N'E	2	c	29	95	7	5	3	–	2.3	7.8	5700	4	*
4	Ross-on-Wye	989.0	-14	–	0	F	28	96	1	–	2	–	0	1	–	4	*
5	Portland Bill	985.3	-12	NE	4	c	41	95	8	8	–	–	10	10	1500	1	4
	Plymouth	985.2	-16	NE	3	c	42	85	8	6	2	–	4.6	10	2500	1	1
	Falmouth	985.3	-12	NNE	4	c/r	42	95	8	6	2	–	4.6	10	2500	1	2
	Scilly (St. Mary's)	984.5	-4	E'N	6	c	43	95	8	5	–	–	9+	9+	4000	1	3
	Guernsey	983.3	-20	E	4	rr	41	95	7	6	–	–	10	10	1500	2	4
6	Pembroke	987.6	-4	NE	3	c	37	85	7	8	1	–	4.6	7.8	1500	1	2
7	Holyhead	989.8	-4	ENE	2	cjp	40	95	7	5	–	–	9+	9+	1500	1	0
	Chester (Sealand)	988.4	-8	–	0	ir.	32	95	6	6	–	–	9	9	2500	5	*
8	L'pool (Bidston)	987.8	-2	SW	3	bc	36	95	7	5	–	–	4.6	4.6	4000	1	*
9	Harrogate	988.2	0	W	1	b	30	85	8	–	–	1	0	1	–	4	*
10	Spurn Head	986.6	0	WNW	3	bc	35	95	6	6	–	–	4.6	4.6	800	4	4
	Tynemouth	987.1	-2	W	2	bc	30	95	6	5	–	–	2.3	2.3	800	4	2
11	Inchkeith	988.3	-4	W	2	m	31	95	4	6	–	–	2.3	2.3	800	0	0
	Leuchars	987.3	-2	WSW	2	b	28	96	8	4	–	–	Tr.	Tr.	5700	4	*
12	Renfrew	988.6	-6	–	0	f	25	95	3	5	–	–	10	10	<150	5	*
	Eskdalemuir	988.9	0	–	0	b	18	96	7	6	–	–	1	1	2500	1	
13A	Tiree	987.1	-6	NW	2	bc	40	75	9	3	–	–	2-3	2-3	2500	0	3
13B	Stornoway	985.5	+2	NNW	1	c	36	95	7	3	–	–	9+	9+	4000	1	1
15	Dalwhinnie	988.1	-2	WSW	1	o	28	95	7	5	–	–	10	10	4000	5	
	Aberdeen	985.4	-6	WNW	3	b	32	95	7	5	–	–	1	1	4000	4	1
	Wick	985.6	-10	WNW	2	bc	35	95	8	8	–	–	4.6	4.6	2500	1	2
16	Lerwick	986.6	-12	NE	3	r.r.	38	95	7	6	–	–	10	10	1500	1	
17	Blacksod Point	991.6	0	N	4	c	39	95	8	3	–	–	7.8	7.8	2500	1	4
18	Malin Head	987.7	-4	NW	3	bc/pr	43	95	7	3	–	–	4.6	4.6	1500	1	2
	Aldergrove	990.2	0	–	0	F	29	95	0	5	–	–	10	10	<150	4	*
	Donaghadee	988.0	-4	WSW	2	b	34	95	7	–	–	–	0	0	–	1	1
19	Birr Castle	989.9	+2	NW	1	f	32	95	3	–	–	–	0	0	–	1	*
20	Valentia Obsy.†	990.1	+8	NNE	3	bc	39	75	8	8	–	–	2.3	2.3	2500	1	3
	Roches Point	990.1	+10	NE	3	c	43	85	8	5	–	–	7.8	7.8	1500	0	3

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 31st Hrs. (36)
1	London (Kew)	47	30	23	2	–	0.0
	Croydon	47	31	29	1	Tr	0.4
	S. Farnborough	45	29	22	4	–	0.0
	Winchester	45	29	22	2	–	0.0
	Boscombe Down	44	31	28	4	–	*
	Calshot, S'thmtn	48	34	27	3	–	0.0
	Dungeness	49	34	*	1	1	*
	Lympne	47	31	26	2	0.3	1.9
2	Shoeburyness	47	27	20	1	0.1	0.3
	Felixstowe	47	33	29	2	0.5	1.2
	Gorleston	47	31	30	3	2	0.0
	Cranwell	42	28	27	1	–	0.0
3	Cardington	46	29	25	3	Tr.	0.0
	Birmingham	40	31	20	3	–	0.0
	Upper Heyford	45	28	21	3	–	*
	Leafield	44	27	19	5	–	0.0
4	Ross-on-Wye	44	28	19	7	–	0.3
5	Portland Bill	47	39	*	7	–	*
	Plymouth	47	37	35	0.6	–	2.8
	Falmouth	47	41	*	1	4	6.0
	Scilly (St. Mary's)	48	42	*	–	5	4.4
	Guernsey	51	41	35	1	8	1.8
6	Pembroke	45	37	*	1	0.1	3.2
7	Holyhead	45	37	29	2	0.1	2.3
	Chester (Sealand)	42	29	25	1	Tr.	0.1
8	L'pool (Bidston)	41	34	31	1	2	0.2
9	Harrogate	40	25	22	0.6	–	0.1
10	Spurn Head	43	34	*	2	1	0.0
	Tynemouth	43	30	26	2	–	*
11	Inchkeith	38	31	29	–	–	4.5
	Leuchars	39	26	21	Tr.	–	4.5
12	Renfrew	37	20	13	–	–	4.4
	Eskdalemuir	38	17	13	0.2	–	3.3
13A	Tiree	44	~~36~~ 40	32	0.3	–	3.5
13B	Stornoway	43	36	*	0.1	3	2.9
15	Dalwhinnie		18	*		Tr.	
	Aberdeen	36 (33)	29	24	–	–	4.2
	Wick	40	31	*	1	–	*
16	Lerwick	43	37		1	3	1.6
17	Blacksod Point	46	38	*	1	1	*
18	Malin Head	45	36	*	0.4	1	1.8
	Aldergrove	47	25	21	Tr.	Tr.	3.1
	Donaghadee	44	38	*	–	0.4	*
19	Birr Castle	44	31	26	–	–	2.1
20	Valentia Obsy.†	46	37	29	0.2	Tr.	1.6
	Roches Point	45	37	*	–	Tr.	*

LONDON OBSERVATIONS.

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

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	cor. m	cm. rom.	bm x bf x	47	30	23	2	–	0.0	•	•	0
Croydon	217	cd. prod. m	odd.fd. m	od. bcb x	47	31	29	1	Tr.	0.7	•	•	3
Greenwich (Royal Observatory)	149	cir.	cfgcr.r.	cbo x fe	47	29	21	1	Tr.	0.0	90	89	40
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Park)	27	•	•	•						0.0			•
Regents Pk. (Botanic Gardens)	168	•	•	•	•	•	•	•	•		•	•	•
Camden Square	110	cor	fdor	•	46	33	23	1	–	•	•	97	•
Kensington Palace	80	ofodr	codr	•	47	31	23	3	–	•	At 18h. 86	99	•
Hampstead Observatory	450	orfc	c	•	45	29	21	2	Tr.	0.0	•	97	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
1.3	14h 31st	0.3	2h 1st

Kew Observatory Max.	Time.	Min.	Time.
0.3	14h 31st	<0.1	16h 31st

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 31st December Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 1st January 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	989.8	WSW	8	rr	43	988.7	ESE	1	rr	41	50	41	2	4
Brussels	994.0	SSW	4	pr	43	990.2	SW	2	c	37	48	37	2	2
Berlin						994.0	SE	4	c	36		36		2
Zürich	1003.4	SW	3	iR	41	1001.4	S	2	z	36	52	34	0	0.1
Rome	1005.8	SSE	5	id.	54	1007.7	SSW	2	c	50	54	50	7	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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 2nd January 1931.

No. 252c3

OBSERVATIONS at 13h. G.M.T. 1st January

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)	°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)	988.5	-4	w	1	bcF	36	95	0	-	3	-	0	4-6	-
	Croydon	989.3	+2	NNE	1	cF-	39	95	1	4	3	-	4-6	9+	4000
	S. Farnborough	988.2	-4	NW	1	cf-	36	95	3	5	3	9	7-8	7-8	450
	Winchester	988.3	+2	N'W	3	2	37	95	5	-	2	6	0	9	-
	Boscombe Down	988.5	+6	N'E	3	c	38	85	6	-	2	-	0	9+	-
	Calshot, S'thmtn	987.7	+4	N'E	4	c	38	85	6	5	7	-	4-6	7-8	2500
	Dungeness	.	.	SE	3	c	.	.	7	8	3	.	4-6	7-8	800
	Lympne	987.1	-6	NNE	3	2	41	95	5	5	-	-	10	10	7200
2	Shoeburyness	988.3	-4	-	0	bc	33	95	4	5	3	-	2-3	4-6	4000
	Felixstowe	989.0	-2	N	1	2	43	75	6	2	-	8	1	4-6	4000
	Gorleston	988.7	+2	NW	1	c	39	95	4	7	-	-	9	9	2500
	Cranwell	988.7	+2	W'S	2	m	33	95	4	-	7	6	0	8	-
3	Cardington	989.4	+2	-	0	if	37	85	3	-	5	6	0	4-6	-
	Birmingham	990.0	+4	NW	1	bcf	36	85	3	5	3	-	4-6	4-6	4000
	Upper Heyford	989.3	+2	N	2	2	35	85	5	5	7	6	2-3	9	5700
	Leafield	989.3	+8	NW	3	c	34	95	7	5	4	-	4-6	7-8	4000
4	Ross-on-Wye	990.2	+6	W	1	m	33	85	4	-	3	8	0	9	-
5	Portland Bill	987.6	+12	NNE	4	c	41	85	7	4	7	-	7-8	10	2500
	Plymouth	989.4	+22	N	3	bc	42	75	7	-	3	1	0	4-6	-
	Falmouth	990.5	+20	N'W	4	c	44	65	6	5	8	-	4-6	7-8	7200
	Scilly (St. Mary's)	991.3	+24	NNE	4	c	46	75	8	8	-	-	9	9	4000
	Guernsey	986.4	+20	NE	2	id	45	85	8	6	-	-	10	10	1500
6	Pembroke	990.0	+6	WSW	1	bc	44	75	8	4	4	-	4-6	4-6	2500
7	Holyhead	990.9	+2	NW'N	3	c/pr	43	85	8	1	-	-	7-8	7-8	2500
	Chester (Sealand)	989.6	+2	-	0	2	42	85	5	1	-	-	1	1	4000
8	L'pool (Bidston)	989.1	0	W'N	3	b	40	75	8	7	-	-	1	1	4000
9	Harrogate	988.2	0	SW'W	1	b	39	65	8	-	4	-	0	Tr.	-
10	Spurn Head	987.6	0	NW'W	3	m	36	85	4	5	-	1	7-8	9+	450
	Tynemouth	987.8	0	WNW	2	bc	38	75	7	7	-	-	2-3	2-3	4000
11	Inchkeith	988.1	-2	W	2	bcf	36	95	3	-	7	-	0	2-3	-
	Leuchars	987.3	-2	W	2	b	37	85	8	2	-	-	Tr.	Tr.	2500
12	Renfrew	988.6	-2	-	0	bf	28	95	2	-	-	-	0	0	-
	Eskdalemuir	988.5	-4	SE	1	c	30	95	7	5	-	-	9+	9+	800
13A	Tiree	986.5	-6	NW	2	rr	42	85	6	9	7	8-	9	9+	1500
13B	Stornoway	988.6	+4	N	2	c	39	95	8	3	7	-	7-8	9	4000
15	Dalwhinnie	988.0	-4	-	0	s	32	85	8	5	-	-	2-3	2-3	2500
	Aberdeen	985.4	-6	WNW	3	b	37	85	8	5	4	-	Tr.	1	2500
	Wick	985.6	+2	WNW	3	c	37	95	8	9	2	-	7-8	9	1500
16	Lerwick	985.4	-6	E	3	$r_o r_o$	40	85	7	6	-	-	10	10	1500
17	Blacksod Point	993.4	+8	W	4	bc	41	85	8	3	-	-	4-6	4-6	2500
18	Malin Head	988.1	-2	W'W	3	bcjp	43	95	8	3	-	-	4-6	4-6	1500
	Aldergrove	989.9	-6	SSW	3	bc	36	95	6	8	3	-	1	2-3	800
	Donaghadee	989.1	+4	SSW	2	bc	38	85	7	2	.	8	1	2-3	4000
19	Birr Castle	992.6	+2	SSW	1	bc	37	95	8	5	-	-	4-6	4-6	4000
20	Valentia Obsy.	994.0	+10	N'W	2	c	45	65	9	7	-	-	7-8	7-8	2500
	Roches Point	994.2	+4	N	3	bc	40	85	8	8	-	-	2-3	2-3	1500

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

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	°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)	991.5	+20	NNW	1	m	37	85	4	-	3	-	0	9+	-	1	*
	Croydon	991.4	+18	W'N	1	f	33	95	1	5	-	-	10	10	<150	1	*
	S. Farnborough	991.3	+22	NNW	1	m	35	95	4	5	3	-	4-6	7-8	5700	1	*
	Winchester	992.0	+22	NW	3	bc	33	95	6	-	6	-	0	4-6	-	1	*
	Boscombe Down	992.4	+16	NW	1	2	33	95	5	-	3	-	0	1	-	1	*
	Calshot, S'thmtn	991.7	+24	NW'N	4	2	37	85	6	-	4	-	0	4-6	-	0	1
	Dungeness	.	.	N	2	0m.	.	.	5	8	-	-	10	10	1500	.	2
	Lympne	989.4	+18	NNW	4	2	37	95	5	-	7	-	0	9+	-	1	*
2	Shoeburyness	990.4	+20	NNW	2	c	35	95	6	5	1	-	4-6	7-8	4000	0	*
	Felixstowe	990.4	+14	NW	1	2	37	85	5	-	1	-	0	10	-	1	1
	Gorleston	989.9	+4	WNW	2	c	36	85	5	5	-	-	7-8	7-8	1500	0	1
	Cranwell	990.5	+10	W'N	3	bcf	31	95	2	-	3	1	0	2-3	-	4	*
3	Cardington	991.2	+10	W	2	m	34	95	4	-	3	8	0	7-8	-	1	*
	Birmingham	992.1	+12	WNW	3	bf	35	85	3	-	-	-	0	0	-	1	*
	Upper Heyford	992.1	+18	WNW	2	2	34	85	5	-	2	-	0	2-3	-	1	*
	Leafield	991.9	+8	NW	3	bc	31	85	7	-	3	-	0	2-3	-	4	*
4	Ross-on-Wye	992.8	+14	-	0	bF	30	95	1	-	-	-	0	0	-	4	*
5	Portland Bill	992.0	+26	NNW	4	c	40	65	6	4	4	-	4-6	7-8	2500	1	4
	Plymouth	994.1	+26	-	0	2	40	85	5	-	-	-	0	0	-	1	0
	Falmouth	994.3	+22	NNW	2	bc	41	75	7	8	3	-	4-6	4-6	4000	0	2
	Scilly (St. Mary's)	995.3	+24	NNW	3	pr	43	95	8	9	-	-	7-8	7-8	4000	1	2
	Guernsey	992.4	+34	NNW	1	c	44	75	7	5	3	-	7-8	7-8	2500	2	4
6	Pembroke	992.9	+20	NW	3	bc	43	75	8	8	-	-	4-6	4-6	2500	1	1
7	Holyhead	992.0	+6	NNW	5	bc	43	85	8	1	-	-	4-6	4-6	2500	1	2
	Chester (Sealand)	991.2	+6	-	0	pr	37	85	5	8	-	-	7-8	7-8	4000	2	*
8	L'pool (Bidston)	990.4	+6	SW'W	3	c/d	37	95	8	3	-	-	7-8	7-8	4000	0	*
9	Harrogate	990.2	+6	-	0	b	32	95	7	-	4	-	0	1	-	4	*
10	Spurn Head	989.1	+2	NW'W	3	bc	35	95	5	5	-	-	4-6	4-6	800	4	3
	Tynemouth	988.4	+4	W	2	bc	35	85	7	9	-	-	4-6	4-6	2500	1	2
11	Inchkeith	988.0	0	W	2	m	35	95	4	5	-	-	2-3	2-3	800	0	1
	Leuchars	987.6	+4	WSW	2	b	31	85	8	-	-	-	0	0	-	4	*
12	Renfrew	990.2	+6	-	0	m	25	95	4	-	3	-	0	4-6	-	4	*
	Eskdalemuir	989.5	+6	SSE	2	if	29	95	2	5	-	-	9+	9+	<150	4	*
13A	Tiree	989.4	+18	NE	5	c	41	75	8	8	-	8	9	9	1500	1	3
13B	Stornoway	989.1	+2	NNW	1	pr	36	95	7	3	-	-	10	10	4000	1	1
15	Dalwhinnie	989.8	0	ESE	1	c	30	85	8	5	-	-	7-8	7-8	4000	6	*
	Aberdeen	985.1	0	W	3	b	37	85	7	5	-	-	1	1	4000	4	1
	Wick	983.3	-10	NNW	3	$r_o r$	37	95	8	9	1-	-	7-8	9	1500	1	3
16	Lerwick	983.7	-10	E	5	$r_o r_o$	41	85	7	6	-	-	10	10	1500	2	*
17	Blacksod Point	993.6	+2	WNW	4	c	42	85	7	3	-	-	7-8	7-8	450	1	3
18	Malin Head	988.3	+6	NNW	4	phr	44	95	8	3	-	-	4-6	4-6	1500	0	3
	Aldergrove	990.5	+4	S	3	c	35	95	7	5	-	-	7-8	7-8	1500	4	*
	Donaghadee	989.5	+2	SW	1	b	35	95	7	-	-	-	0	0	-	0	0
19	Birr Castle	994.2	+8	S	1	b	35	95	8	-	-	-	0	0	-	1	*
20	Valentia Obsy.	997.3	+12	N'W	1	bc/pr	39	85	8	3	-	-	2-3	2-3	2500	1	3
	Roches Point	996.3	+14	N	3	bc	41	95	8	5	-	-	2-3	2-3	1500	0	3

PAST 24 HOURS.

Stations	Weather. 7h.–13h. 1st (37)	13h.–18h. 1st (38)	18h. 1st to 1h. 2nd (39)	1h.–7h. 2nd (40)
London (Kew)	oFxbcF	cfx	bfxbmx	bm
Croydon	cmofFF	oFF	offmbmx	b
S. Farnborough	cbmefxcf	cfem	cmxbmx	mbx
Winchester	cmbcm	cbcm	bm b	bbcpr
Boscombe Down	cbccm	cmbm	bmbx	bx
Calshot, S'thmtn	cm	cmm	bxm	bxm
Dungeness	o	o	*	bc
Lympne	cm	cm	cbfx	bbcfwxm
Shoeburyness	bfxbcm	cmcm	cmbcbx	bx
Felixstowe	bcmbcm	bczcz	czbc	bmx
Gorleston	bccmm	cmm	cbcbmm	bmmbx
Cranwell	bcm cm	cmf	bcfc	cmcx
Cardington	bcmwffFf	bcffm	bcmbx	bxbc
Birmingham	bbcff	ccfbf	bfbx	bbcx
Upper Heyford	bczmcm	cbcm	bcmbx	bbcx
Leafield	bcc	bcc	bx	bxbc
Ross-on-Wye	FFcf	cmbmf	bcFxbc	pcbc
Portland Bill	c	cz	bbcc	cbc
Plymouth	cbc	bcbz	bzcpr	bm
Falmouth	cbcc	cbc	bc	bc
Scilly (St. Mary's)	c	cp	cbc	bc
Guernsey	orcid	orrc	cbc	bcbc
Pembroke	cbc	bcpf	bcq	bcq
Holyhead	prprh	bcu	bcc	prbc
Chester (Sealand)	rcbcmfb	bbcjpm	bcprPR	bcpr
L'pool (Bidston)	bcbbV	bbcd	cPRCIRCPRC	CPRC
Harrogate	b	b	bcb	bx
Spurn Head	bccfm	cmzbcx	czxbc	bcx
Tynemouth	bc	bc	bcbO	obc
Inchkeith	bcff	bcmm	bcmmcf	cmmbc
Leuchars	bx	bzc	bbcx	bcx
Renfrew	obffx	bfmx	bxm	cpsb
Eskdalemuir	bcpsxc	cxcfx	cifx	cxbx
Tiree	bccpr	cirpr	cbc	bc
Stornoway	rpr	bcphor	bcp	corr
Dalwhinnie	ocpsbc	bcpsc	c	c
Aberdeen	bxbcb	bcb	bbcx	bcx
Wick	bccrrc	crr	crrc	cir
Lerwick	orr	orrcpr	cbc	
Blacksod Point	phc	prqc	prc	prc
Malin Head	bcphr	bcphr	cbcphr	bcphr
Aldergrove	bcFxbm	bmbc	bcxcx	cxbcxbx
Donaghadee	bprbc	bcb	bbc	bcbx
Birr Castle	offcbc	bcb	bbcx	bcbx
Valentia Obsy.	pbcc	cpbcpbc	bcpP	bcpbc
Roches Point	cbc	bc	bbx	bbcx

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,

R, heavy rain. r_o, slight rain. rr, continuous rain.

<, less than (for cloud height).

⊕, solar halo. ◐, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.

"tr" signifies a small amount of cloud (trace) covering less than 1/10 of the sky.

"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

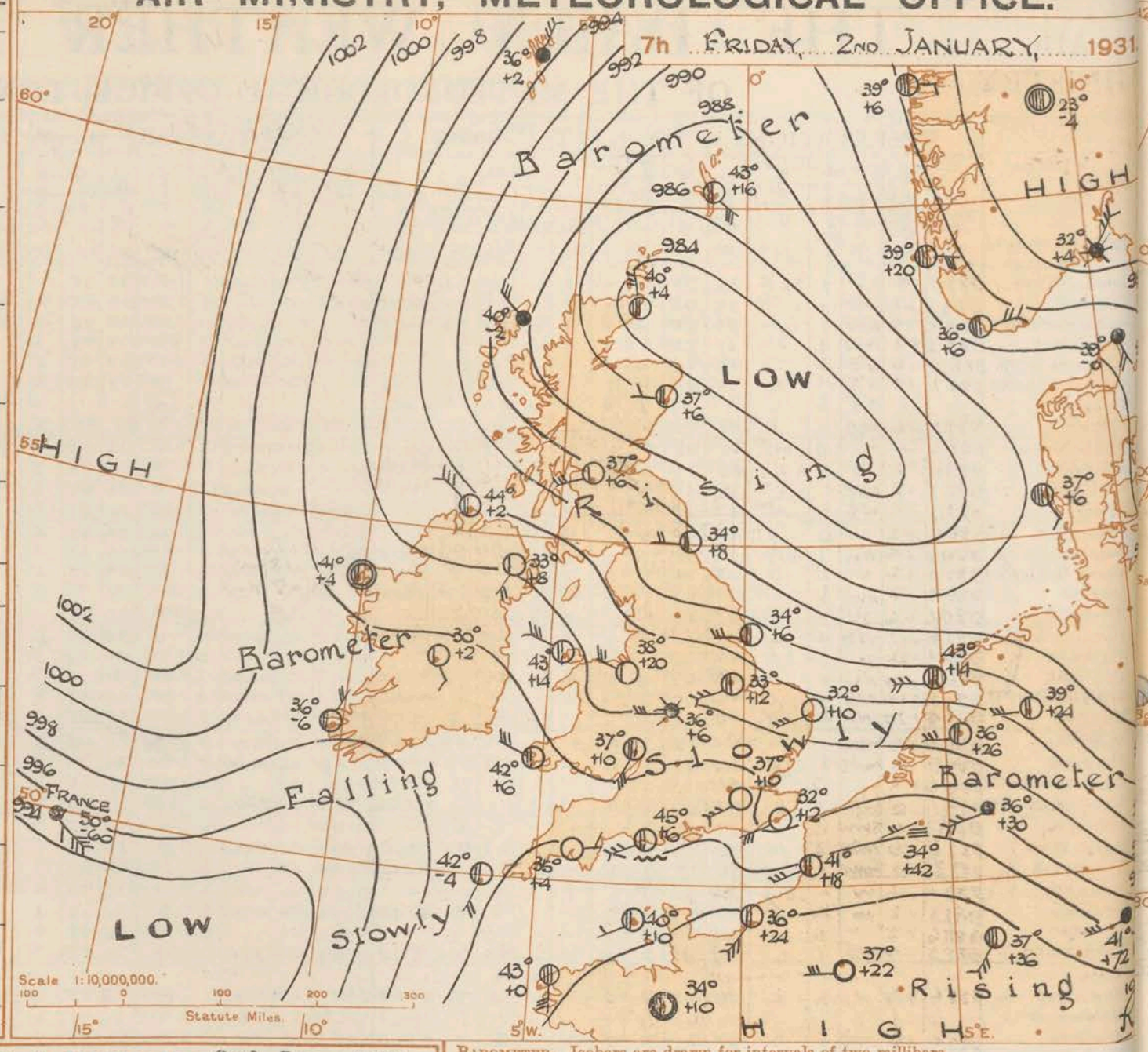
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 1st January 1931.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	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.	ocbo	co	30	39	1	-	0.7
	Bournemouth	cbcb	bcc	32	40	-	-	0.7
	Ventnor ...	pcoz	poz	36	42	Trace	-	0.6
	Southsea ...	obc	co	34	41	-	-	0.5
	Bognor Regis	oc	o	34	45	0·3	-	0.0
	Littlehampton	c	c	32	39	0.1	-	0.0
	Worthing ...	od.	o	33	40	Trace	Trace	0.0
	Brighton ...	crc	bc	35	41	Trace	Trace	0·3
	Eastbourne†	r.cr.o	o	35	43	2	1	0.0
	Hastings† ...	coro	ocom	34	43	1	2	0.0
	Folkestone ...	xom.c	co	33	44	-	-	0.0
	Dover... ...	c	c	34	44	1	..	0.0
	Deal	oco	o	32	44	2	-	0.0
	Ramsgate ...	cm	cm	35	43	2	-	0.0
	Margate ...	bcc	c	34	43	1	-	0·1
2	Southend ...	cf	ofcm	33	37	1	-	0.0
	Maldon ...	x Fc	bco	27	39	2	-	0.7
	Clacton-on-Sea	bcm	bmcz	31	40	2	-	2.4
	Dovercourt ...	rbcx	bcc	31	39	2	-	3.5
	Lowestoft ...	bcc	cm.	30	39	3	-	2.8
	Skegness ...	obx	mox	29	33	1	Trace	0.0
	Mablethorpe	cm.c	cm.c	28	33	2	-	0.0
	Cleethorpes ...	xc	c	29	34	-	-	0·2
3	Leamington S.	of	of	28	33	-	-	0.0
4	Cheltenham†	bcxcf	cf b	29	39	-	-	0.0
5	Bath	bbcc	cbcb	31	39	-	-	1·0
	Weymouth ...	c	cb	35	41	-	-	0.5
	Jersey ...	c	cr	40	47	10	0·2	0·8
	Torquay ...	p.cm	bcbm.	35	42	Trace	0.4	0.4
	Penzance ...	cbc	c	39	48	4	-	0.7
	St. Ives ...	c	c	40	47	2	-	0.6
	Bude	bcc	cbcm.	36	45	-	-	1.8
	Ilfracombe ...	bcc	c	38	44	0.6	-	1·2
6	Aberystwyth	bcx	bcp.h	33	43	-	0·3	3.4
7	Llandudno ...	cr	cbc	34	44	1	2	3.1
	Colwyn Bay...	cb	brc	35	45	1	3	3.4
	Rhyl	bc	prbc	32	43	0·2	1	3·9
8	Wallasey ...	fbcb	bbcp	35	43	2	Trace	4·5
	Southport‖ ...	fcbcofcbcoprhb		30	39	0·5	0.4	2·3
	Blackpool ...	ofe	cm	29	35	0·2	-	0·1
	Morecambe ...	zxgcb	bbccm	28	36	-	-	0·9
9	Ilkley... ...	b	b	28	38	-	-	2·9
10	Berwick-on-T.	bc	cbc	27	34	-	-	4·0
11	Dunbar ...	bx	bm.	31	36	-	-	2·6
12	Douglas ...	bcxcb	bcx	33	42	5	-	6·0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 2nd Jan. 1931
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Wind backing southeast to east, light to fresh; fair at first: becoming dull and rainy; mist locally; normal temperature.
5. S.W. England 6. South Wales	Wind easterly, moderate to fresh or strong; dull, rainy; temperature below normal.
7. North Wales 8. N.W. England 9. N. Midlands	Wind westerly to variable, light or moderate; mainly fair; local showers at first, and local fog later; normal temperature today, frost night and morning.
10. N.E. England 11. S.E. Scotland	Wind west moderate becoming variable light; fine; local fog later; normal temperature today; frost night and morning.
12. S.W. Scotland & Isle of Man	As 7 - 9.
13. { A. W. Scotld. B. N.W. Scotland.	Moderate northwest wind; cloudy, some showers, improving slowly; normal temperature.
14. Mid-Scotland 15. N.E. Scotland	
16. Orkneys and Shetlands.	Light variable winds; some showers; normal temperature
17. N.W. Ireland 18. N.E. Ireland	As 7 - 9.
19 S.E. Ireland 20. S.W. Ireland	Moderate or fresh easterly wind; cloudy, local rain; temperature below normal.

GENERAL INFERENCE.

A depression over the Northern North Sea is beginning to fill up and another depression is approaching the mouth of the English Channel. Weather will be fair at first apart from local showers in the northwest, but rain will soon spread from southwest over Southern England.

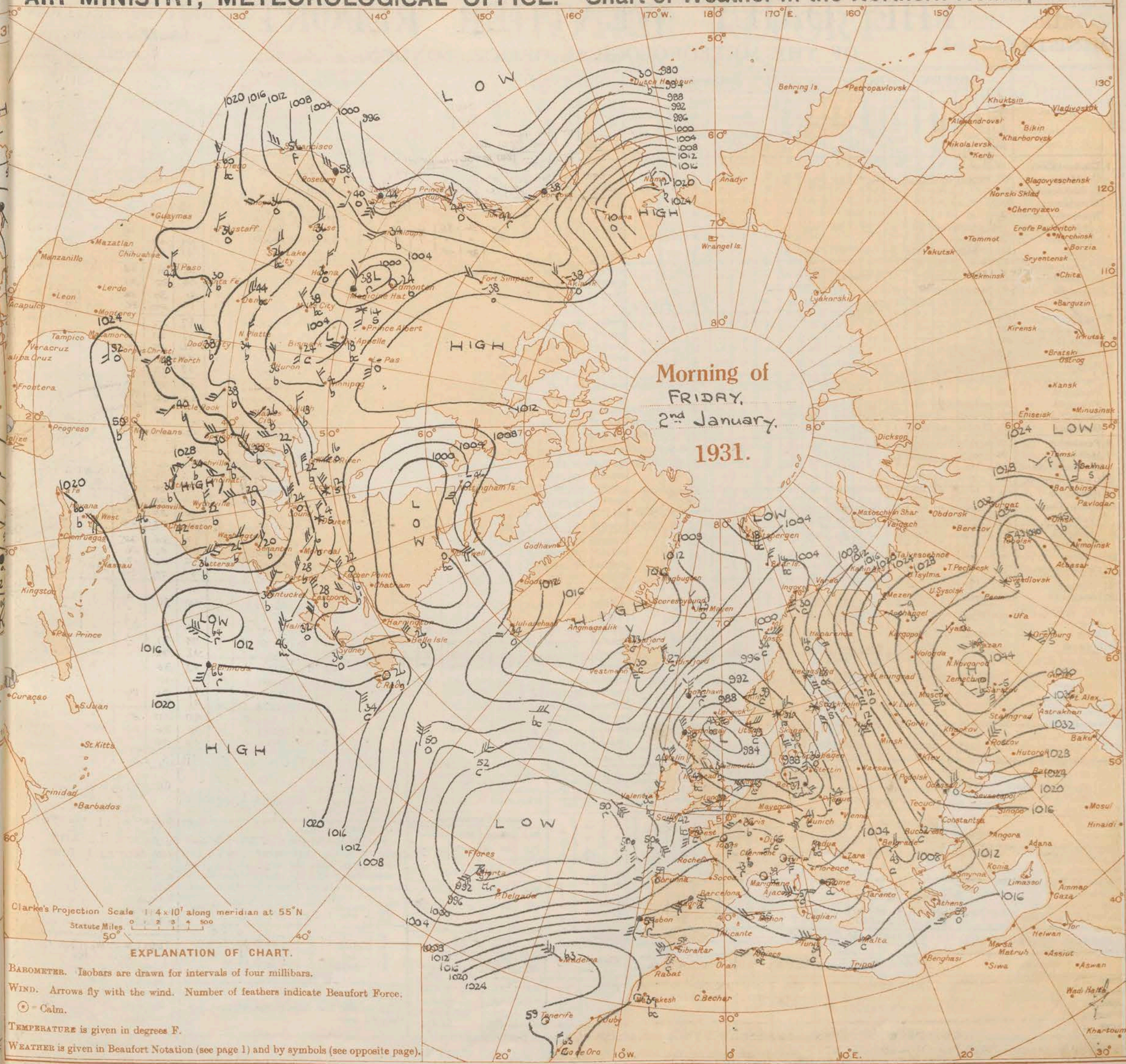
FURTHER OUTLOOK.

Rain in the South; probably mainly fair in the North but local fog.

Forecasts issued at 1000 G.M.T.

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

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



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 2nd January 1931.

No. 25243

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

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	996.0	+20	WSW	4	z	32	95	6	–	–	–	0	0	–
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, S'thmtn	8	996.3	+16	W	3	b	33	95	6	–	–	–	0	0	–
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	994.9	+24	NWW	3	f	31	95	3	–	–	–	0	0	–
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	55	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	992.8	+20	WN	2	m	33	95	4	–	–	–	0	0	–
	Cranwell	240	993.0	+16	WSW	4	m	32	95	4	5	–	–	7-8	7-8	5700
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	996.6	+14	W'S	4	c	44	75	7	2	–	–	7-8	7-8	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	999.0	+8	W	3	bc	39	75	8	8	–	–	2-3	2-3	5700
	Scilly (St. Mary's)	163	999.8	+10	NW	3	bc	43	85	8	1	–	–	4-6	4-6	4000
	Guernsey	173	998.6	+20	WNW	1	bc	43	75	9	5	–	–	4-6	4-6	2500
6	Pembroke	142	996.7	+10	WNW	4	bc	45	85	8	8	8	–	2-3	4-6	4000
7	Holyhead	26	993.6	+6	WNW	6	c	43	95	8	5	–	–	9+	9+	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	67	991.2	+4	W	3	bc	34	95	5	5	4	–	4-6	4-6	800
	Tynemouth	29	989.6	+6	W	2	0	36	95	7	6	–	–	10	10	1500
11	Inchkeith	190	988.6	+2	SW	3	z	35	95	5	–	1	–	0	2-3	–
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	988.1	-4	NNW	3	c	40	85	7	8	–	–	7-8	7-8	4000
15	Dalwhinnie	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	982.0	-4	NNW	4	c	40	95	8	9	1	–	4-6	7-8	1500
16	Lerwick	54	983.0	0	ESE	3	c/pr	42	85	7	8	1	–	4-6	7-8	1500
17	Blacksod Point	10	997.3	+10	WNW	3	bc	39	95	7	8	–	–	4-6	4-6	2500
18	Malin Head	51	993.0	+4	NNW	3	bc,jp	44	95	8	3	6	–	4-6	4-6	1500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	999.2	+6	W	3	bc	44	85	8	6	–	–	4-6	4-6	4000
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	998.1	+16	SWW	3	b	33	96	6	5	–	–	1	1	2500	4	*
	Croydon	998.2	+10	SWW	4	z	37	86	6	–	–	–	0	0	–	4	*
	S. Farnborough	998.3	+16	SW	3	b	33	95	8	9	5	–	Tr.	Tr.	5700	4	*
	Winchester	999.3	+14	SW	2	bc,jp	33	95	8	5	–	–	2-3	2-3	2500	5	*
	Boscombe Down	998.9	+14	SSW	3	bc	33	95	7	5	–	–	2-3	2-3	2500	4	*
	Calshot, S'thmtn	998.9	+14	W'S	3	b	36	85	6	3	–	–	1	1	4000	0	1
	Dungeness	*	*	WSW	4	bc	*	*	7	5	–	*	4-6	4-6	4000	*	2
	Lympne	997.8	+12	W'S	3	z	32	95	6	–	5	–	0	1	–	1	*
2	Shoeburyness	997.7	+14	SW	4	b	35	95	8	–	–	–	0	0	–	4	*
	Felixstowe	996.8	+14	WSW	3	z	34	95	6	–	–	1	0	1	–	4	2
	Gorleston	995.1	+10	W'S	3	b	32	95	6	–	–	–	0	0	–	0	2
	Cranwell	994.7	+12	SWW	4	bc	33	95	5	5	3	–	2-3	4-6	4000	4	*
3	Cardington	996.8	+8	WSW	4	bc	34	95	7	5	–	–	4-6	4-6	2500	4	*
	Birmingham	996.7	+6	W	3	prs.	36	96	8	6	–	–	2-3	2-3	2500	1	*
	Upper Heyford	997.4	+10	W	3	c	32	95	7	5	7	–	2-3	7-8	2500	4	*
	Leafield	997.0	+8	SW	4	bc	32	85	7	5	–	–	2-3	2-3	4000	4	*
4	Ross-on-Wye	997.6	+10	SW'S	3	c	37	85	8	5	–	–	7-8	7-8	4000	1	*
5	Portland Bill	998.6	+6	W	4	bc	45	65	8	7	–	–	2-3	2-3	2500	1	4
	Plymouth	1000.1	+4	E	1	z	35	85	6	5	–	1	1	1	4000	4	1
	Falmouth	1000.5	+4	W	2	bc	40	75	8	7	–	–	2-3	2-3	4000	0	1
	Scilly (St. Mary's)	999.9	-4	SSW	2	bc	42	75	8	4	–	5	2-3	4-6	4000	0	2
	Guernsey	1001.0	+10	WSW	1	bc	40	75	9	5	–	–	4-6	4-6	2500	1	3
6	Pembroke	998.1	+6	WNW	3	bc	42	85	8	7	–	–	2-3	2-3	4000	0	2
7	Holyhead	996.5	+14	NWN	4	bc	43	85	8	4	–	–	2-3	2-3	2500	1	2
	Chester (Sealand)	995.4	+20	WNW	3	b	38	95	8	5	–	–	1	1	2500	2	*
8	L'pool (Bidston)	995.2	+16	WNW	4	b	40	85	8	5	–	–	1	1	2500	1	*
9	Harrogate	994.4	+6	SW	3	b	34	96	7	–	4	–	0	Tr.	–	4	*
10	Spurn Head	992.7	+6	W	3	bc	34	95	6	5	–	–	4-6	4-6	800	4	3
	Tynemouth	990.8	+8	W	2	bc	34	85	6	5	–	–	2-3	2-3	800	4	2
11	Inchkeith	989.5	+8	SW	4	bc	37	85	8	–	4	–	0	2-3	–	0	2
	Leuchars	989.3	+4	WSW	3	bc	34	75	8	4	3	–	1	2-3	4000	4	*
12	Renfrew	991.6	+6	SWW	3	b	37	85	8	5	–	–	1	1	2500	5	*
	Eskdalemuir	990.3	+16	W'N	2	bc	34	85	8	5	–	–	2-3	2-3	1500	4	*
13A	Tiree	991.9	0	NW'W	5	bc	42	75	9	2	–	–	4-6	4-6	1500	0	3
13B	Stornoway	988.2	-2	NW	3	rr	40	95	7	3	–	–	10	10	4000	2	1
15	Dalwhinnie	988.7	-2	W	5	bc	35	85	7	5	–	–	4-6	4-6	2500	5	*
	Aberdeen	986.1	+6	W	1	bc	37	85	8	5	–	–	4-6	4-6	4000	4	1
	Wick	982.4	+4	NNW	3	c	40	96	8	9	2	–	4-6	9	1500	1	3
16	Lerwick	986.5	+16	ESE	3	bc	43	75	7	8	1	–	4-6	4-6	1500	1	*
17	Blacksod Point	997.8	+4	–	0	bc	41	95	7	3	–	–	4-6	4-6	2500	0	3
18	Malin Head	994.1	+2	NW	4	bc,jp	44	95	8	3	–	–	4-6	4-6	1500	1	3
	Aldergrove	996.1	+8	SW'S	2	b	33	95	8	5	–	–	1	1	2500	4	*
	Donaghadee	994.6	+6	SW	1	b	35	95	7	5	–	–	1	1	4000	0	0
19	Birr Castle	998.3	+2	SSE	1	b	30	95	7	–	4	–	0	1	–	4	*
20	Valentia Obsy.†	998.1	-6	NNE	2	bc	36	95	8	8	3	–	2-3	2-3	2500	1	2
	Roches Point	999.0	0	N	3	bc	37	95	8	5	–	–	2-3	2-3	1500	0	3

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h-18h °F. (31)	Temperature Min. Night 18h-7h °F. (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h-18h mm. (34)	Rainfall Night 18h-7h mm. (35)	Sunshine 1st Hrs. (36)
1	London (Kew)	40	30	21	–	0.1	0.0
	Croydon	34	31	27	Tr.	Tr.	0.0
	S. Farnborough	38	28	17	–	0.2	0.5
	Winchester	38	29	23	–	0.2	2.2
	Boscombe Down	39	28	24	–	Tr.	*
	Calshot, S'thmtn	41	31	24	–	–	0.3
	Dungeness	44	40	*	Tr.	Tr.	*
	Lympne	41	30	24	–	Tr.	0.0
2	Shoeburyness	38	31	28	–	–	0.1
	Felixstowe	44	32	30	–	–	3.1
	Gorleston	41	30	28	–	–	3.0
	Cranwell	33	29	26	0.1	Tr.	0.0
3	Cardington	37	27	25	Tr.	–	0.9
	Birmingham	37	33	28	–	Tr.	0.0
	Upper Heyford	36	28	20	–	–	*
	Leafield	35	30	21	–	–	1.2
4	Ross-on-Wye	33	28	17	–	0.2	0.1
5	Portland Bill	42	39	*	–	–	*
	Plymouth	44	30	29	–	0.3	0.8
	Falmouth	45	39	*	–	–	1.1
	Scilly (St. Mary's)	47	41	*	1	0.1	0.8
	Guernsey	46	40	29	2	0.3	0.9
6	Pembroke	46	41	*	1	–	1.8
7	Holyhead	45	42	37	2	0.1	3.1
	Chester (Sealand)	43	34	30	0.3	4	3.8
8	L'pool (Bidston)	40	36	33	Tr.	7	4.5
9	Harrogate	39	31	24	–	–	5.0
10	Spurn Head	36	33	*	–	–	0.8
	Tynemouth	38	33	26	–	–	*
11	Inchkeith	37	34	32	–	–	2.2
	Leuchars	37	30	26	–	Tr.	6.1
12	Renfrew	32	25	17	–	0.1	0.0
	Eskdalemuir	32	25	24	Tr.	–	0.3
13A	Tiree	43	41	35	1	–	0.9
13B	Stornoway	40	36	*	1	8	0.8
15	Dalwhinnie	34	28	*	Tr	–	1.7
	Aberdeen	38	35	30	–	–	3.2
	Wick	38	37	*	2	2	*
16	Lerwick	41	40	*	10	6	0.0
17	Blacksod Point	43	38	*	2	1	*
18	Malin Head	44	42	*	0.6	1	1.7
	Aldergrove	37	31	26	0.2	Tr.	4.3
	Donaghadee	41	34	*	0.6	–	*
19	Birr Castle	40	29	21	–	–	3.5
20	Valentia Obsy.†	46	36	33	0.4	2	4.4
	Roches Point	43	35	*	–	Tr.	*

LONDON OBSERVATIONS.

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

	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	0fxbcF	cfx	bfxbrs	40	30	21	–	0.1	0.0	*	*	6
Croydon	217	cmofFF	0FF	0ffnbw	34	31	27	Tr.	Tr.	0.0	*	*	6
Greenwich (Royal Observatory)	149	fefc	fecff	cbfxcm	38	31	23	–	Tr.	0.0	83	83	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park)	27	*	*	*	40	31	25	–	–	0.0	75	86	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	xfbc	bcc	*	37	33	25	–	–	*	*	92	*
Kensington Palace	80	bcfxc	bcm	*	39	32	22	–	0.2	*	At 18h. 85	91	*
Hampstead Observatory	450	ofbcfxc	bcmx	*	37	28	21	T.	0.3	2.8	*	93	*

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
2.3	11h 15th	0.3	5h 2nd

Kew Observatory Max.	Time.	Min.	Time.
1.9	14h 12th	0.1	7h 12th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 1st January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 2nd January 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	986.4	WNW	3	pr.	50	1003.3	W	3	b	37	52	36	3	0.1
Brussels	?	NE	3	r.r.	39	999.0	W'S	2	f	34	43	34	1	8
Berlin	992.6	SSE	2	c	39	988.0	ESE	2	dzr	37	41	34	0.1	Tr.
Zürich						1005.4	NNW	3	c/f	39		37		2
Rome	1004.6	SSW	3	c	57	1004.7	SW	2	bc	52	59	50	10	12

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 3rd January 1931.

No. 222..

OBSERVATIONS at 13h. G.M.T. 2nd January

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)...	1000.8	+4	SW	3	bc	40	85	6	5	–	1	Tr.	2.3	2500
	Croydon ...	1000.5	0	W'S	3	z	43	65	6	–	–	1	0	2.3	–
	S. Farnborough	1000.8	+10	SW	3	bc	42	75	7	–	–	6	0	4.6	–
	Winchester ...	1001.3	+2	SW'W	3	bc	41	75	7	5	–	2	Tr.	4.6	4000
	Boscombe Down	1001.1	+6	SW	3	bc	39	85	7	–	–	8	0	4.6	–
	Calshot, S'thmtn	1001.6	+8	W	2	bc	44	75	7	–	1	1	0	4.6	–
	Dungeness ...	·	·	W	4	bc	·	·	7	5	4	·	2.3	4.6	4000
	Lympne ...	1000.4	+2	WSW	4	bc	43	75	7	–	–	2	0	2.3	–
2	Shoeburyness	1000.7	+10	W	3	bc	42	85	6	5	–	–	2.3	2.3	4000
	Felixstowe ...	1000.1	+10	W'S	2	z	40	85	6	5	3	8	2.3	7.8	4000
	Gorleston ...	997.2	+8	W	3	c	38	95	6	–	3	–	0	7.8	–
	Cranwell ...	998.2	+12	W'S	4	bc	39	85	9 5	–	–	5	0	2.3	–
3	Cardington ...	999.8	+6	W'S	3	bc	44	65	7	–	–	2	0	4.6	–
	Birmingham ...	999.9	+4	WSW	3	bc	41	75	6	–	–	1	0	4.6	–
	Upper Heyford	1000.6	+6	WSW	3	bc	42	75	7	–	–	8	0	4.6	–
	Leafield +10 ...	1000.4	(+2)	SW'W	3	bc	40	75	7	–	–	8	0	2.3	–
4	Ross-on-Wye ...	999.9	+4	SW	2	bc	44	65	8 7	1	–	5	Tr.	4.6	4000
5	Portland Bill...	1000.8	-4	W'N	3	c	46	65	8	4	7	–	4.6	7.8	2500
	Plymouth ...	1000.3	-12	ENE	3	c	39	85	7	5	2	–	2.3	9+	4000
	Falmouth ...	1000.1	-18	SE'S	3	c	43	85	8	8	1	–	4.6	9	4000
	Scilly (St. Mary's)	998.1	-16	SE	4	c	45	75	8	4	2	–	4.6	9	4000
	Guernsey ...	1001.9	-4	SSE	1	o	46	75	8	5	–	–	10	10	2500
6	Pembroke ...	999.2	0	SE	2	c	44	85	8	8	7	–	2.3	7.8	2500
7	Holyhead ...	999.4	+6	W	3	c	43	85	8	1	–	9	2.3	7.8	2500
	Chester (Sealand)	998.5	+2	WSW	1	bc	44	75	6	2	–	4	1	4.6	4000
8	L'pool (Bidston)	997.9	+4	W'S	4	bc	42	85	8	–	–	6	0	4.6	–
9	Harrogate ...	996.2	+6	SW	4	b	40	85	7	2	–	–	Tr.	Tr.	4000
10	Spurn Head ...	996.5	+4	W	2	bc	40	85	6	5	–	–	4.6	4.6	800
	Tynemouth ...	993.0	+2	W	4	b	43	65	6	–	–	–	0	0	–
11	Inchkeith ...	991.6	+6	WSW	4	bc	41	85	6	5	1	–	1	4.6	2500
	Leuchars ...	990.7	+6	SW	4	bc	41	75	8	1	3	1	1	2.3	4000
12	Renfrew ...	993.8	+6	WSW	3	cjp	41	85	8	8	–	–	7.8	7.8	2500
	Eskdalemuir ...	994.8	+10	W'S	4	bc	37	85	7	4	–	–	4.6	4.6	1500
13A	Tiree ...	993.9	0	NW'W	4	bc	44	75	8	8	–	3	2.3	2.3	1500
13B	Stornoway ...	996.0	+4	WNW	3	rr	41	95	8	6	–	–	10	10	4000
15	Dalwhinnie ...	990.9	+6	WSW	5	bc	37	85	8	5	–	–	4.6	4.6	1500
	Aberdeen ...	988.4	+12	WSW	2	ir₀	41	75	6	5	–	–	9	9	4000
	Wick ...	985.2	+12	WNW	3	c	41	95	8	8	6	1	4.6	7.8	1500
16	Lerwick ...	989.4	+12	ESE	2	bc	43	75	8	8	4	–	4.6	4.6	1500
17	Blacksod Point	999.2	0	W	3	c	43	65	9	5	8	–	2.3	7.8	4000
18	Malin Head ...	995.8	0	WNW	3	bcjp	43	95	8	3	6	–	2.3	2.3	2500
	Aldergrove ...	997.6	0	SSW	3	bc	38	85	8	5	–	6	1	2.3	2500
	Donaghadee ...	996.9	0	W	1	b	40	75	7	5	–	–	Tr.	Tr.	4000
19	Birr Castle ...	993.8	-4	–	0	c	37	95	8	–	–	9	0	7.8	–
20	Valentia Obsy.†	998.0	-10	–	0	c	39	95	8	–	7	–	0	9+	–
	Roches Point...	999.3	0	N'S	2	c	38	85	8	5	–	–	9+	9+	1500

OBSERVATIONS at 18h. G.M.T. 2nd January

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)	1001.0	-2	–	0	cf	36	95	3	5	5	8	4.6	10	1500	1	*
Croydon	1001.5	+2	S	3	m	36	95	4	–	1	6	0	9+	–	1	*
S. Farnborough	1000.6	-2	·	0	bcf	33	95	3	–	3	1	0	4.6	–	1	*
Winchester	1000.6	-4	E	1	z	34	95	6	5	–	–	7.8	7.8	5700	1	*
Boscombe Down	1000.4	-2	ESE	2	c	36	85	6	–	3	–	0	9+	–	1	*
Calshot, S'thmtn	1000.2	-4	E'N	3	cf	40	85	2	–	7	–	0	10	–	1	1
Dungeness	·	·	W	2	c	·	·	7	5	2	·	4.6	9	4000	·	2
Lympne	1002.0	+8	SSW	1	c	36	95	7	·	5	6	0	9+	–	1	*
Shoeburyness	1001.9	+4	–	0	bc	36	95	6	5	1	–	4.6	4.6	4000	0	*
Felixstowe	1001.9	+14	SW'W	1	m	36	95	4	–	·	8	0	7.8	–	1	1
Gorleston	1000.8	+14	SW'W	2	bc	35	85	6	–	5	–	0	4.6	–	0	2
Cranwell	999.6	+6	SE	1	c	33	95	5	5	5	1	4.6	7.8	5700	1	*
Cardington	1000.7	+2	SW	2	bc	33	95	7	–	7	8	0	4.6	–	1	*
Birmingham	1000.4	0	SW	1	m	36	95	4	–	1	–	0	9	–	1	*
Upper Heyford	1000.5	-8	SW	1	z	35	95	5	5	1	–	4.6	9	2500	1	*
Leafield	1000.3	-6	SSW	2	c	34	95	7	5	–	–	7.8	7.8	4000	4	*
Ross-on-Wye	999.7	-4	·	0	m	36	95	4	–	7	–	0	9+	–	1	*
Portland Bill	997.6	-16	SE	4	c	47	75	8	4	7	–	4.6	7.8	2500	1	3
Plymouth	997.0	-18	ESE	3	c	42	85	7	5	2	–	9	10	1500	1	1
Falmouth	995.3	-16	E'S	6	rr	46	85	7	6	2	–	4.6	10	2500	1	4
Scilly (St. Mary's)	992.8	-26	ESE	5	rr	44	95	6	9	–	–	9+	9+	4000	1	3
Guernsey	998.4	-18	SE	3	o/pr	45	85	7	5	–	–	10	10	2500	1	3
Pembroke	997.1	-10	E	4	c	43	95	7	8	7	–	4.6	9	2500	0	2
Holyhead	999.1	-2	–	0	m	41	95	4	7	7	8	2.3	9+	4000	1	0
Chester (Sealand)	999.0	0	SSE	1	z	36	85	5	–	1	6	0	9	–	1	*
L'pool (Bidston)	998.0	0	SW'S	2	c	39	85	7	5	1	–	7.8	9	2500	0	*
Harrogate	998.2	+6	SSW	1	b	36	85	7	1	–	1	1	1	4000	4	*
Spurn Head	997.6	+4	WSW	3	bc	37	85	5	5	4	–	2.3	4.6	800	0	3
Tynemouth	995.1	+6	W	2	bc	38	85	6	5	–	–	2.3	2.3	800	1	2
Inchkeith	992.8	+6	SW	4	b	40	85	7	5	–	–	1	1	1500	0	2
Leuchars	993.2	+12	WSW	3	b	37	85	8	–	3	–	0	1	–	4	*
Renfrew	995.6	+10	WNW	2	pr₀	40	85	7	8	–	–	9+	9+	4000	1	*
Eskdalemuir	996.2	+10	S'E	3	c	35	85	7	5	–	–	9	9	1500	4	*
Tiree	994.6	+4	WNW	4	bc	43	75	8	8	–	–	4.6	4.6	1500	0	3
Stornoway	990.7	+10	–	0	c	40	95	8	9	–	–	10	10	4000	2	1
Dalwhinnie	993.6	+14	WSW	5	c	37	85	8	5	–	–	9+	9+	2500	1	*
Aberdeen	990.5	+10	WSW	3	bc	40	75	7	5	4	–	2.3	4.6	4000	1	1
Wick	987.4	+18	WNW	2	c	39	95	8	8	–	–	7.8	7.8	1500	1	2
Lerwick	992.1	+10	E'S	1	bc	42	75	8	5	4	–	2.3	2.3	2500	0	*
Blacksod Point	998.3	-4	W	3	c	38	95	8 6	–	3	·	0	10	–	0	3
Malin Head	995.9	+2	W	3	pr	40	95	7	3	6	–	7.8	7.8	1500	1	2
Aldergrove	996.3	+8	SE'E	3	bc	33	95	7	5	–	6	1	2.3	1500	4	*
Donaghadee	997.0	+4	W	1	b	34	95	7	–	–	–	0	0	–	0	0
Birr Castle	997.7	-6	S	1	c	33	95	6	5	–	–	9+	9+	2500	4	*
Valentia Obsy.†	995.8	-2	E'N	1	c	39	75	8	5	–	–	10	10	4000	1	2
Roches Point	996.6	-14	ENE	3	c	40	95	8	5	–	–	9	9	2500	0	3

PAST 24 HOURS.

Stations	Weather 7h.–13h. 2nd (37)	Weather 13h.–18h. 2nd (38)	Weather 18h 2nd to 1h. 3rd (39)	Weather 1h.–7h. 3rd (40)
London (Kew)	bxcm₀bz₀	bcz₀cf	cjwom₀r	om₀rr
Croydon	bxcbcz₀	bccz₀m	cmm₀orr	orrr₀d₀m₀
S. Farnborough	bxcbc	bccbcf	bcfr₀rrrsir	orrrsrrd₀
Winchester	bccm₀	ccm₀	cm₀orr	or₀r₀c
Boscombe Down	bbcps₀bc	bccm₀	cpr₀corr	or₀r₀ orr₀
Calshot, S'thmtn	bbczbcm₀	bccm₀fw	cfr₀r₀qm₀	cr₀r₀m₀
Dungeness	bc	bc	·	o
Lympne	bm₀bc	bbcc ⊕	cr₀r₀	or₀r₀DDd₀
Shoeburyness	bm₀	bcm₀	bcm₀x	corrd₀d₀
Felixstowe	bcm₀cm₀	bcm₀cm₀	cmbcm₀	bcm₀crm₀
Gorleston	bbc	cbc	bccx	coir₀
Cranwell	xbm₀	bm₀c	cm₀fx	cfzpr₀
Cardington	bccd₀cbc	bc	bccm₀	crrd₀m₀
Birmingham	b	bc	co	or₀f
Upper Heyford	bxcm₀bc	bccm₀	cbccm₀	or₀r
Leafield	cbc	bcc	cr	orr₀
Ross-on-Wye	bcbbc	bcc	cmor	rom
Portland Bill	bcc	c	rrRR	coRRc
Plymouth	bxcmcm₀	c	corr	cor₀rr
Falmouth	bcc	cr	oirm₀q	orm₀q
Scilly (St. Mary's)	bcc	crr	orrcr	circ
Guernsey	bcco	copr	orRR	orir₀
Pembroke	bc	c	cm₀	cir₀
Holyhead	bccbc	cm₀m	cmmm₀c	cbcw
Chester (Sealand)	bcm₀	bcz₀cm₀	bcmx	cmxf
L'pool (Bidston)	bbc	c	c	cmfx
Harrogate	b	b	b	bx
Spurn Head	bcz	bc	bcczx	cx
Tynemouth	bcb	bbc	bcc	cbc
Inchkeith	bc	bc	bbc	bbcc
Leuchars	bcxb	b	bxbcx	bcx
Renfrew	bbc	bccp₀	cpr₀bc	bccpr₀
Eskdalemuir	bcxbc	bccx	cxbcopx	ofx
Tiree	phrqbcjp	bccbc		bccprPR
Stornoway	orr	cp	bc	bcpr₀
Dalwhinnie	c	c	c	cr₀c
Aberdeen	bccir₀z₀	ir₀bc	b	bbc
Wick	c	cprc	c	cpr₀
Lerwick	bc	bc₀	bccpr₀	cbc
Blacksod Point	bc	c	pc	prc
Malin Head	bcpr₀	bcjp	cpr₀	cbcvpr
Aldergrove	bxbc	bc	bcf	Fx
Donaghadee	b	b	bc	bcx
Birr Castle	bbcc	c	cbffx	ffx
Valentia Obsy.†	bcc	c	cobc	bccx
Roches Point	bcc	c	coirc	cbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4-6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{20}$ 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.

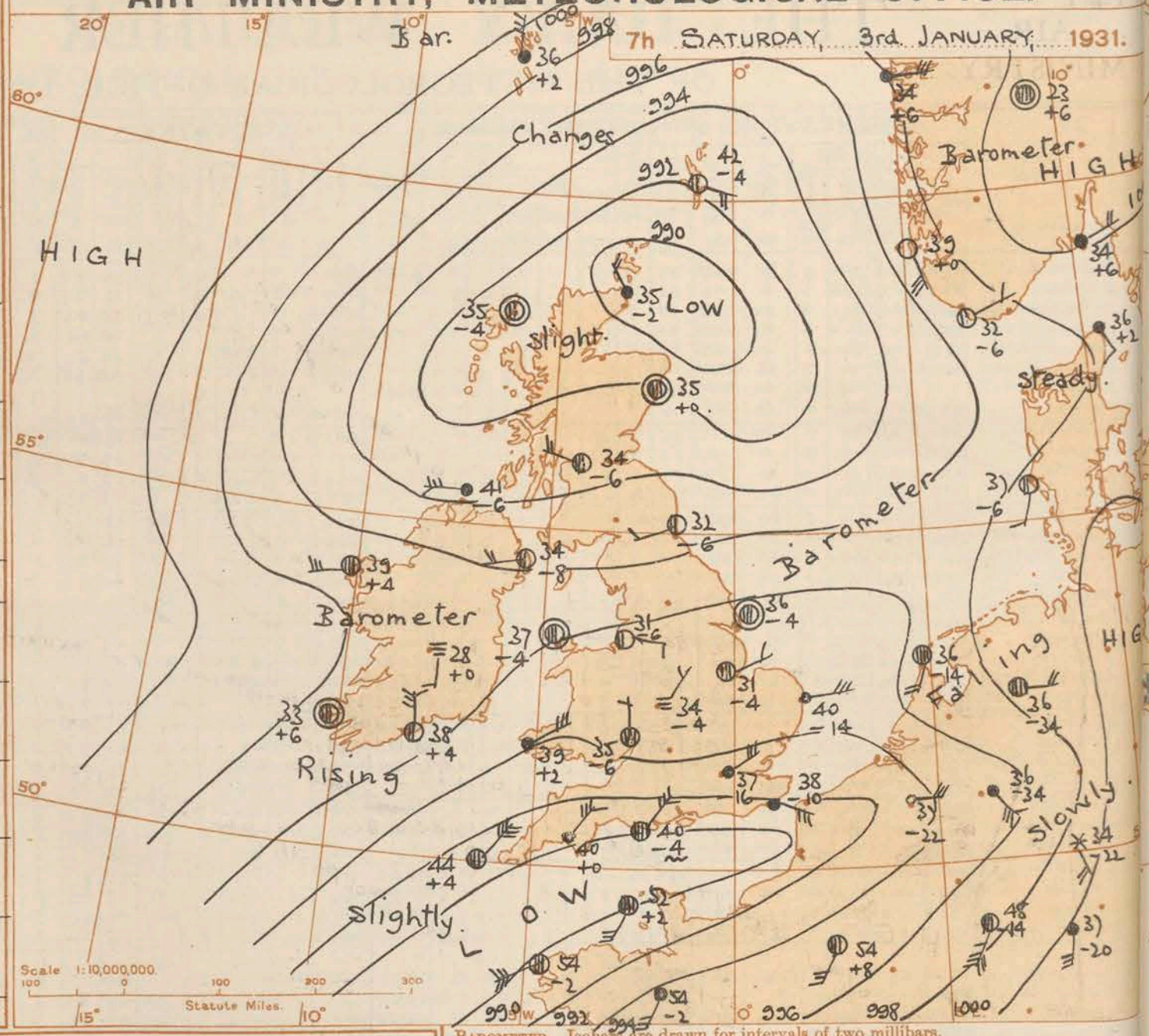
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for ... 2nd. January ..... 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 1/1 ... to 9h. 2nd.	Temperature. Max. 9h.—17h. ... 2nd.	Rainfall. Night. 17h. 1/1 ... to 9h. 2nd.	Rainfall. Day. 9h.—17h. ... 2nd.	Sunshine. Sunrise to Sunset. ... 2nd.
1	Tunbridge W.	bbc	coc	26	43	-	-	5.5
	Bournemouth	cb	bbccfm	31	43	-	-	3.0
	Ventnor ...	xbcu	coc	34	46	-	-	3.0
	Southsea ...	bc	bcof	32	43	-	-	3.4
	Bognor Regis	bbc	bc	31	42	-	-	3.5
	Littlehampton	bc	bcc	29	43	-	-	3.6
	Worthing ...	bbc	bcc	31	42	Trace	-	4.2
	Brighton ...	bc	bc	32	43	-	-	3.9
	Eastbourne†	bbc	bccrc	34	44	-	Trace	4.6
	Hastings† ...	xbbc	bcm	31	44	0.3	-	5.3
	Folkestone ...	xbbcb	b	32	45	-	-	4.2
	Dover... ...	bbc	bocm	34	45	-	-	5.5
	Deal	b	b	33	43	-	-	6.0
	Ramsgate ...	b	bbc	33	44	Trace	-	6.2
	Margate ...	bbc	bc	33	44	-	-	6.1
2	Southend ...	cbcb	bbccw	31	42	0.2	Trace	2.7
	Maldon ...	xcbc	bom	29	43	-	-	2.7
	Clacton-on-Sea	bccbcz	bczm	31	42	-	-	2.0
	Dovercourt ...	xbcc	bc	31	41	-	-	2.5
	Lowestoft ...	bc	bccb	30	38	-	-	4.7
	Skegness ...	bxm	mbx	26	39	Trace	Trace	4.3
	Mablethorpe	bmx	bmx	28	40	-	-	4.7
	Cleethorpes ...	xmcb	bm	29	40	-	-	4.9
3	Leamington S.	bcb	bcm	28	42	-	-	3.1
4	Cheltenham†	bcxb	bbcf	28	41	-	-	4.0
5	Bath	bcb	bbcc	30	42	-	-	4.4
	Weymouth ...	mfc	cm	33	45	Trace	Trace	0.0
	Jersey ...	cfc	c	38	46	-	-	0.0
	Torquay ...	bcmx	bcmo	32	47	-	-	0.0
	Penzance ...	fc	c	37	48	0.1	-	0.0
	St. Ives ...	c	o	39	46	-	-	0.0
	Bude	pbcc	c	35	46	0.2	-	0.0
	Ilfracombe ...	c	c	39	46	0.5	-	0.2
6	Aberystwyth	phrc	c	33	45	2	-	1.9
7	Llandudno ...	bc	bccr	35	44	1	0.3	4.0
	Colwyn Bay...	cb	bbcco	36	45	3	-	3.4
	Rhyl	bcb	bbcc	33	45	1	-	4.2
8	Wallasey ...	bc	bcc	35	44	7	-	3.2
	Southport‖ ...	bbcb	bbccpo	36	44	6	0.2	3.5
	Blackpool ...	bcc	bcc	30	46	2	-	4.4
	Morecambe ...	hfxbc	bcc	28	44	1	-	4.4
9	Ilkley... ...	b	b	29	42	Trace	-	3.0
10	Berwick-on-T.	bc	bcb	30	41	-	-	6.1
11	Dunbar ...	bc	b	31	41	-	-	5.9
12	Douglas ...	bcxbc	bcx	33	44	1	-	5.3

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 5/10 clouded. ◑ Sky 5/10 to 8/10 clouded. ◑ Sky 9/10 to 10/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. K Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

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

Districts.	Forecasts
1. S.E. England 2. E. England...	Wind northeast to north or variable, mainly moderate to light; dull, some rain; mist locally; rather cold.
3. E. Midlands 4. W. Midlands	Wind northeast to northwest or variable, light, dull, some rain or sleet; mist or fog; cold.
5. S.W. England 6. South Wales	Wind northeast, moderate or fresh; dull, some rain; rather cold.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Light variable wind; mainly fair; local fog; rather cold, frost locally.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland.	Light or moderate westerly wind; variable sky, local showers; rather cold.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Light variable wind; showery; snow on hills; rather cold.
17. N.W. Ireland 18. N.E. Ireland	As 11 - 13A.
19 S.E. Ireland 20. S.W Ireland	As 6 - 10.

GENERAL INFERENCE.

An elongated low pressure area extends southwestward from the English Channel. One centre will probably become detached and move northeast up the Duch coast. The deep centre off Corunna has moved slowly southeast but may turn northeast to some extent. Some further rain will occur in the South but only local showers are expected in the North. Fog will occur locally in central districts.

FURTHER OUTLOOK.

Little change in the North; doubtful in the South.

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.

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 3rd January 1931.

No. 25244

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0-12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0-10 (12)	Cloud Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	998.0	-18	ESE	2	rr	36	95	5	6	-	-	10	10	800
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, S'thmtn	8	993.8	-26	ENE	5	r_0r_0	40	95	6	5	2	-	7-8	10	1500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	996.0	-30	SE'E	4	r_0r_0	41	85	6	9	-	-	10	10	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	55	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	998.4	-10	-	0	c	37	95	6	-	1	-	0	10	-
	Cranwell ...	240	997.4	-6	-	0	f	29	95	3	-	-	7	0	10	-
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	990.6	-36	E'N	6	RR	45	85	7	4	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	989.8	-10	ESE	7	rr	44	95	6	6	-	·	10	10	2500
	Scilly (St. Mary's)	163	988.9	-6	ENE	5	c/r	46	95	6	9	·	-	9	9	2500
	Guernsey ...	173	989.9	-30	SW	1	RR	50	95	5	6	-	·	10	10	1500
6	Pembroke ...	142	994.2	-4	ENE	3	ir_0	40	95	6	9	2	-	4-6	10	1500
7	Holyhead ...	26	997.3	-10	-	0	c⦶	39	95	7	5	-	8	2-3	9+	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	67	997.3	-2	S'W	1	c	35	95	5	5	-	-	7-8	7-8	800
	Tynemouth ...	29	995.4	0	WSW	2	c	34	95	6	4	-	-	7-8	7-8	4000
11	Inchkeith ...	190	993.5	+6	WSW	4	bc	38	95	7	5	-	8	4-6	4-6	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	991.4	0	-	0	bc	36	85	8	8	1	-	2-3	4-6	4000
15	Dalwhinnie ...	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	989.6	+6	WNW	2	c	35	95	8	9	6	-	4-6	7-8	1500
16	Lerwick ...	54	993.3	+4	E'S	2	c/pr_0	41	85	8	5	-	·	7-8	7-8	1500
17	Blacksod Point	10	997.3	-4	·	0	bc⦶	37	95	7	5	3	6	2-3	4-6	800
18	Malin Head ...	51	995.1	-4	S	3	cjp⦶	39	95	7	3	-	6	4-6	9+	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	996.5	+6	NNE	2	c	39	95	8	4	-	-	10	10	5700
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 3rd January — 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)
London (Kew)	993.6	-8	NE	3	id_0	37	95	5	6	-	·	10	10	1500	1	*	41	35	28	-	3
Croydon	993.9	-16 (12)	NE	3	d_0d_0	37	95	5	6	-	·	10	10	800	2	*	43	35	31	-	5
S. Farnborough	993.2	-~~10~~ 12	ENE	2	o/d	36	95	4	5	-	·	10	10	1500	1	*	43	33	23	-	6
Winchester	993.5	-10	NNE	4	c	36	95	6	5	-	-	10	10	1500	1	*	42	31	30	-	6
Boscombe Down	993.0	-6	ESE	3	o	36	95	6	5	-	-	10	10	800	1	*	40	34	32	0.3	4
Calshot, S'thmtn	992.1	-8	NNE	4	c	39	95	7	5	-	-	10	10	1500	1	2	44	36	34	0.1	4
Dungeness	*	*	ESE	3	o	*	*	6	5	-	*	10	10	1500	*	2	46	39	*	-	3
Lympne	997.0	-10	ESE	3	d_0d_0	38	95	5	6	-	-	10	10	800	1	*	43	35	25	-	3
Shoeburyness	993.9	-14	ENE	3	d_0d_0	39	95	6	6	-	-	10	10	800	1	*	42	32	28	-	5
Felixstowe	994.7	-20	E	3	rr	39	95	6	6	2	-	9	10	450	1	3	41	34	28	Tr.	3
Gorleston	995.2	-14	SE'E	3	ir_0	40	95	7	6	-	-	10	10	1500	1	3	39	34	31	-	0.1
Cranwell	995.6	-4	ENE	1	cf	31	95	2	6	2	-	2-3	10	4000	4	*	40	28	24	0.1	Tr.
Cardington	995.5	-8	ENE	2	id_0	34	95	6	5	2	-	7-8	10	800	1	*	44	33	30	Tr.	3
Birmingham	995.6	-4	NE	1	of	34	95	3	5	-	-	10	10	800	1	*	41	33	31	-	2
Upper Heyford	994.4	-10	ENE	3	z	34	95	5	5	-	-	10	10	800	1	*	42	32	28	-	2
Leafield	994.0	-10	ENE	4	m	33	95	4	5	-	-	10	10	450	1	*	41	33	29	-	2
Ross-on-Wye	994.6	-6	N	1	m	35	95	4	5	-	-	10	10	800	1	*	45	34	27	-	1
Portland Bill	989.9	-4	NE	5	o	40	95	7	5	-	-	10	10	1500	2	4	48	39	*	-	3
Plymouth	990.7	0	NE	4	rr	40	95	7	6	-	-	10	10	1500	2	2	42	39	39	0.1	6
Falmouth	990.6		NNE	3	$r_0$6	42	95	7	6	2	-	4-6	10	2500	2	2	47	42	*	1	5
Scilly (St. Mary's)	990.6	+4	NE	6	c	44	95	7	8	-	-	9	9	4000	1	3	46	43	*	9	6
Guernsey	990.1	+2	SW	3	o	52	95	6	5	-	·	10	10	1500	2	3	47	43	42	0.2	14
Pembroke	994.0	+2	ENE	3	ir_0	39	95	7	3	2	-	4-6	10	1500	1	2	45	38	*	-	0.3
Holyhead	996.0	-4	-	0	u	37	95	8	8	·	8	9	9+	1500	1	0	45	36	30	-	-
Chester (Sealand)	995.8	-6	ESE	1	cf	31	95	3	5	2	-	2-3	7-8	2500	4	*	45	30	26	-	-
L'pool (Bidston)	994.9	-2	E'S	2	bcf	34	95	3	5	-	-	4-6	4-6	2500	0	*	42	33	31	-	-
Harrogate	996.0	0	-	0	bc	30	95	5	-	7	-	0	2-3	-	4	·	41	30	24	-	-
Spurn Head	995.2	-4	-	0	c	36	95	6	5	3	-	4-6	9+	800	4	3	41	34	*	-	-
Tynemouth	994.4	-6	WSW	1	bc	32	95	6	2	-	-	4-6	4-6	2500	4 0	2	43	32	25	-	-
Inchkeith	993.4	-4	SW	3	c	38	95	8	5	5	8	2-3	7-8	2500	0	1	43	37	35	-	-
Leuchars	992.3	-4	WSW	2	c	31	95	7	-	-	6	0	7-8	—	4	'	41	30	27	-	-
Renfrew	994.0	-6	WNW	2	c	34	95	7	8	-	2	4-6	9	2500	4	·	42	32	26	0.1	0.3
Eskdalemuir	995.3	-6	SSW	2	f	31	95	2	5	-	-	10	10	<150	4	*	39	28	~~(20)~~ 25	-	-
Tiree	992.9	-8	WNW	3	~~c/pr~~	42	85	8	3	-	38	4-6 (~~7-8~~)	4-6 (~~7-8~~)	1500	1	32	44	40	34	0.3	3
Stornoway	991.3	-4	-	0	bc	35	95	8	1	3	-	2-3	2-3	4000	1	0	43	35	*	5	0.6
Dalwhinnie	993.4		S	1	c	33	95	8	5	-	-	7-8	7-8	2500	1	*	37	30	*	-	0.1
Aberdeen	992.0	c	-	0	c	35	85	8	5	-	-	7-8	7-8	4000	4	1	42	29	22	0.1	-
Wick	989.4	-2	NW	2	c/pr	35	95	8	3	8	-	4-6	7-8	1500	1	2	41	34	*	0.1	0.4
Lerwick	993.0	-4	ESE	2	bc	42	85	8	8	-	·	4-6	4-6	1500	1	*	43	40	*	-	0.4
Blacksod Point	997.6	+4	W	3	bc	39	95	7	3	-	-	4-6	4-6	450	1	3	45	35	*	-	3
Malin Head	993.6	-6	W'N	4	pr	41	95	7	3	-	-	4-6	4-6	1500	1	2	45	37	*	1	1
Aldergrove	996.6	-4	SE'S	1	F	29	95	1	5	-	-	10	10	<150	4	*	40	27	*	Tr.	?
Donaghadee	994.6	-8	W	2	bc	34	95	7	5	-	·	4-6	4-6	4000	0	0	41	31	*	-	-
Birr Castle	997.1	0	S	1	f	28	95	2	5	-	-	10	10	<150	4	*	37	27	25	-	-
Valentia Obsy.†	997.6	+6	-	0	c	33	85	8	7	7	-	4-6	7-8	4000	1	2	42	33	29	-	Tr.
Roches Point	996.4	+4	N	4	bc	38	85	8	3	-	-	2-3	2-3	1500	1	3	40	35	*	-	1

LONDON OBSERVATIONS.

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

Station	Height above M.S.L. in feet	Weather Morning	Weather Afternoon	Weather Night (24 hrs. ended 9h.)	Temperature Day Max. °F.	Temperature Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset, hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew	18	bxcmbz₀	bcz₀cf	cfm̊rr	41	35	28	-	3	5.1	*	*	4
Croydon	217	bxcbcz	bccz₀m	cmr̊rd	43	35	31	-	5	4.9	*	*	2
Greenwich (Royal Observatory)	149	cbm	bcmw	cx̊Rrf	41	35	26	-	5	4.4	79	98	3
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.6	*	*	*
Westminster (St. James' Park)	27	*	*	*	43	36	30	3		3.4	73	92	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	3.4	*	*	*
Camden Square	110	xc	bc	*	40	36	30	-	3	*	*	97	*
Kensington Palace	80	bcb	bcm	*	43	36	29	-	3	·	At 18h. 87	96	*
Hampstead Observatory	450			*						3.8			*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
2.0	19h 2nd	<0.3	3h-6h 3rd

Kew Observatory. Max.	Time.	Min.	Time.
Defective			

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 2nd January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 3rd January 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	1006.5	SSE	2	f	37	995.5	SW	2	c	52	43	39	-	8
Brussels	1003.8	SW	3	c/r	39	993.5	E	3	rr	37	43	36	Tr.	2
Berlin	997.9	SW	5	c	39	1003.0	WSW	2	m	36	?	36	?	-
Zürich	1012.0	E	1	z	36	1007.5	S	1	z	39	48	34	-	2
Rome	1010.3	SE	2	e	46	1014.0	SE	2	o	46	57		-	

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.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 4th January 1931.

No. 25245

OBSERVATIONS at 13h. G.M.T. 3rd January

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)	993.6	-12	NEN	3	iro	39	85	4	6	-	-	10	10	1500
	Croydon	994.1	-2	NEN	2	rf	38	95	2	6	-	-	10	10	220
	S. Farnborough	993.4	-4	NNE	2	ido	38	95	5	5	-	-	10	10	800
	Winchester	993.4	-2	NE	3	rr	37	95	6	6	-	-	10	10	800
	Boscombe Down	993.9	0	NNE	3	roro	36	95	6	5	-	-	10	10	800
	Calshot, S'thmtn	993.3	-6	NE	2	dodo	39	95	5	6	-	-	10	10	800
	Dungeness	*	*	E	2	iro	*	*	6	5	-	-	10	10	1500
	Lympne	992.3	-8	NNE	2	roro	41	95	5	6	-	-	10	10	800
2	Shoeburyness	992.9	-10	NE	2	cir	41	95	8	4	2	-	7-8	10	1500
	Felixstowe	994.0	-10	ENE	3	iro	41	85	7	6	-	-	10	10	800
	Gorleston	994.6	-10	ENE	3	c	41	85	7	6	2	-	4-6	10	2600
	Cranwell	996.0	-4	NNW	2	rf	34	95	2	5	2	-	9	10	1500
3	Cardington	996.3	-2	NNE	2	roro	36	95	6	6	2	-	7-8	10	800
	Birmingham	996.5	+2	NNE	2	roro	36	95	3	5	-	-	10	10	800
	Upper Heyford	995.6	0	N	3	m	35	95	4	5	-	-	10	10	~~1500~~ <150
	Leafield	996.3	+6	N	4	ido	35	95	5	5	-	-	10	10	220
4	Ross-on-Wye	996.1	+4	N	2	f	37	95	3	5	-	-	10	10	450
5	Portland Bill	997.5	0	NE	5	rr	40	95	6	5	-	-	10	10	1500
	Plymouth	993.4	+6	N	3	z	41	85	6	6	2	-	4-6	10	1500
	Falmouth	995.1	+8	N	5	c	41	85	7	8	-	-	7-8	7-8	4000
	Scilly (St. Mary's)	994.7	+20	NNE	6	bc	44	85	7	8	-	-	4-6	4-6	4000
	Guernsey	990.8	-4	SW	2	OD	52	95	5	6	-	-	10	10	1500
6	Pembroke	995.8	0	N	3	cjp	43	95	8	3	8	1	4-6	7-8	1500
7	Holyhead	997.1	-4	WN	4	u	45	75	9	8	-	-	7-8	7-8	2600
	Chester (Sealand)	996.8	0	SE	1	f	33	95	2	-	-	1	0	2-3	
8	L'pool (Bidston)	995.7	0	SWS	1	m	36	95	4	-	3	1	0	2-3	-
9	Harrogate	996.1	0	--	0	f	35	95	3	5	-	7	1	9+	<150
10	Spurn Head	995.8	0	NNW	2	rf	36	95	2	5	-	-	10	10	220
	Tynemouth	995.3	0	WSW	2	f	35	85	3	5	-	-1	4-6	4-6	1500
11	Inchkeith	994.0	-4	WSW	3	bc	41	85	7	-	9	-	0	4-6	-
	Leuchars	994.2	+2	-	0	c	36	95	6	5	3	-	7-8	7-8	1500
12	Renfrew	994.4	-2	WNW	1	c	40	95	6	8	-	-	7-8	7-8	2500
	Eskdalemuir	996.1	-6	WSW	2	c	34	95	5	5	-	-	9+	9+	220
13A	Tiree	992.7	+4	N'E	1	c/pr	43	75	8	3	7	6	4-6	7-8	1500
13B	Stornoway	993.8	+8	N	2	r	39	95	8	3	1	-	7-8	9+	4000
15	Dalwhinnie	994.2	+6	W	2	bc	36	85	7	6	-	-	4-6	4-6	4000
	Aberdeen	993.4	+4	WSW	1	f	37	85	3	5	-	-	7-8	7-8	2600
	Wick	991.2	+8	W	2	pr	38	95	8	9	8	-	4-6	7-8	1500
16	Lerwick	995.7	+6	ESE	3	c/pr	42	85	7	8	-	-	9	9	1500
17	Blacksod Point	999.2	+10	WNW	5	bc	46	75	8	3	-	-	4-6	4-6	2500
18	Malin Head	992.5	-14	SWW	4	iro	42	95	7	6	2	-	7-8	9+	1500
	Aldergrove	995.3	-10	SSE	2	F	32	95	1	5	-	-	10	10	<150
	Donaghadee	995.1	-4	W	1	bc	38	85	7	5	2	-	2-3	4-6	2500
19	Birr Castle	999.2	0	SW	1	b	36	85	8	-	3	-	0	1	-
20	Valentia Obsy.†	1001.4	+12	NWN	3	bc	45	65	9	3	-	-	2-3	2-3	2600
	Roches Point	999.3	+6	N	3	bc	41	85	8	8	-	-	2-3	2-3	1500

OBSERVATIONS at 18h. G.M.T. 3rd January

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)	994.8	+10	NE	3	m	38	85	4	5	7	-	7-8	9+	1500	1	*
Croydon	994.6	+4	NE	3	oir	38	95	4	6	-	-	10	10	220	1	*
S. Farnborough	994.3	+6	N	2	c	36	95	5	6	3	-	~~9~~ 8	9+	450	1	*
Winchester	994.6	+10	N	3	o	36	95	6	5	-	-	10	10	800	1	*
Boscombe Down	995.6	+14	N	3	c	36	95	6	5	1	-	10	10	450	1	*
Calshot, S'thmtn	994.4	+8	N	4	c	39	85	6	5	2	-	4-6	10	1500	1	1
Dungeness	*	*	NE	3	RR	*	*	4	6	-	-	10	10	800	*	1
Lympne	992.1	0	NW	4	rr	39	95	5	6	-	-	10	10	450	1	*
Shoeburyness	993.6	0	NE	3	cld	39	95	8	4	2	-	4-6	10	2500	1	*
Felixstowe	994.0	0	N'W	3	roro	39	95	6	6	-	-	10	10	800	1	3
Gorleston	994.1	-8	NEN	3	roro	40	95	6	6	-	-	10	10	1500	1	2
Cranwell	996.1	+2	NW	2	F	32	95	1	5	-	-	10	10	<150	1	*
Cardington	996.5	+2	NW	2	o	36	95	5	5	-	-	10	10	800	1	*
Birmingham	996.7	+2	-	0	m	35	95	4	5	4	-	4-6	9	1500	1	*
Upper Heyford	996.3	+6	N	2	m	35	95	4	5	-	-	10	10	220	1	*
Leafield	996.2	+6	N	3	o	34	95	4	5	-	-	10	10	450	1	*
Ross-on-Wye	996.9	+6	-	0	z	34	95	5	5	-	-	1	1	4000	1	
Portland Bill	994.8	+24	NE	4	c	39	85	6	5	7	-	4-6	7-8	1500	2	4
Plymouth	997.7	+30	N	1	b	39	85	6	-	-	-	0	0	-	2	1
Falmouth	998.4	+16	NE	3	bc	42	75	7	8	-	-	4-6	4-6	4000	0	2
Scilly (St. Mary's)	999.3	-24	N	6	bc	43	95	8	1	-	-	4-6	4-6	4000	1	3
Guernsey	994.3	+26	NNE	2	o	44	75	5	5	-	-	10	10	1500	2	3
Pembroke	997.4	+8	NWN	3	bc	42	85	8	1	-	-	4-6	4-6	2500	1	2
Holyhead	997.6	0	W	5	c	41	95	8	8	-	-	9+	9+	2500	1	2
Chester (Sealand)	996.7	0	SSE	1	F	26	95	1	5	-	-	10	10	<150	4	*
L'pool (Bidston)	995.6	+2	-	0	f	37	85	3	5	-	-	4-6	4-6	2500	0	
Harrogate	996.5	0	SSW	1	m	31	95	4	5	9	-	Tr.	2-3	<150	4	*
Spurn Head	995.8	0	N	1	df	36	95	2	5	-	-	10	10	<150	1	2
Tynemouth	996.9	+4	-	0	f	35	95	3	5	-	-	4-6	4-6	1500	4	2
Inchkeith	994.4	+4	SW	2	o	39	95	7	5	-	-	10	10	5700	0	1
Leuchars	994.9	+6	-	0	f	33	95	3	5	3	-	2-3	9+	1500	4	*
Renfrew	995.4	+6	-	0	o	38	95	6	5	-	-	10	10	4000	1	*
Eskdalemuir	995.4	+2	-	0	sh	33	95	1	5	-	-	10	10	<150	1	
Tiree	994.8	+14	N	5	pr	42	75	8	3	7	3	7-8	9	1500	1	3
Stornoway	995.3	+12	N	3	c	39	95	7	9	-	-	9	9	4000	2	1
Dalwhinnie	994.8	+6	NNW	1	c	32	95	5	5	-	-	9	9	2500	6	
Aberdeen	994.7	+8	WSW	2	m	32	95	4	5	3	-	1	4-6	2500	4	1
Wick	993.4	+20	W	2	c	35	95	8	3	1	-	7-8	10	1500	1	2
Lerwick	996.1	+10	E	3	c/pr	42	85	7	8	-	-	7-8	7-8	1500	1	*
Blacksod Point	1000.4	+4	WNW	6	c	45	75	8	3	-	-	7-8	7-8	2500	0	5
Malin Head	994.3	+18	NW	3	c	43	85	8	2	6	-	7-8	9	2500	1	2
Aldergrove	994.9	+2	WNW	1	c/pr	36	95	6	5	-	-	9+	9+	800	1	*
Donaghadee	994.1	-2	SW	2	c	36	95	7	5	-	-	7-8	7-8	1500	0	1
Birr Castle	998.7	+4	SW	1	c/pr	39	85	8	6	-	-	7-8	7-8	1500	1	*
Valentia Obsy.†	1003.8	+16	N	4	bc/pr	45	75	8	2	-	-	2-3	2-3	2500	1	3
Roches Point	1000.8	+10	N	4	bc	42	85	8	8	-	-	2-3	2-3	1500	0	3

PAST 24 HOURS. WEATHER.

Stations	7h.–13h. 3rd (37)	13h.–18h. 3rd (38)	18h. 3rd to 1h. 4th (39)	1h.–7h. 4th (40)
London (Kew)	oirom	ormcm	cmomow	omow
Croydon	odororoff	ororoff	om	om
S. Farnborough	omfmrrdo	orromoc	cmo	cbcmow
Winchester	omoorsrr	orromo	omobff	bffobroc
Boscombe Down	oiroorrrom	rororoso	omoc	cbx
Calshot, S'thmtn	corrrodom	ododorcm	cmobcbm	b
Dungeness	o	p	*	b
Lympne	odorom	orormo	orromodo	odocof
Shoeburyness	oir	oir	o	oido
Felixstowe	crrmocir	cirmorrm	ororomorm	cmo
Gorleston	oiroc	cororo	oroc	cororo
Cranwell	fxrdo	froro	oFiro	oFx
Cardington	crorsorromo	oiroom	omo	omoffe
Birmingham	ororos	om	cmbFf	bfossso
Upper Heyford	oiroom	om	obcm	bcmofe
Leafield	oido	oce	ofxbcc	c
Ross-on-Wye	omrdom	omcmbm	bcxFx	fbcc
Portland Bill	orrzo	rrrorocz	bmbcc	c
Plymouth	ocroromo	cmob	bcpr	crobr
Falmouth	oroqbc	bcq	bc	bcpq
Scilly (St. Mary's)	cbc	bcpoc	cbc	bcc
Guernsey	oirid	oddo	obc	bccpr
Pembroke	cbcc	cpobc	bccqo	cpoq
Holyhead	probcb	pro	propr	pR
Chester (Sealand)	FFx	FFex	Fbcosf	~~[illegible]~~ srsbcF
L'pool (Bidston)	bcffm	ffiro	bcpramfPH	PHffFe
Harrogate	bbccf	cbff	b	bbcx
Spurn Head	cmofr	ofrd	ofrmr	ofmrr
Tynemouth	bcff	bcff	bcff	bcoirs
Inchkeith	cbc	bcc	cir	c
Leuchars	cbcx	cmocf	cfmoirocx	abcx
Renfrew	cprcm	brcmo	crmo	crbmo
Eskdalemuir	ofxc	ofidoofsh	ofcpits	cb
Tiree	c BccPR	cpr	cPRprbc	bc
Stornoway	cir	cphir	bcp	bc
Dalwhinnie	c	rsos	coc	c
Aberdeen	czbcj	bcfzm	bccro	rocbc
Wick	cpr	cprc	c	cprbc
Lerwick	bccpro	cpro	cpr, bc	bccpr
Blacksod Point	prqc	prqc	pc	pqbc
Malin Head	bccro	cirbc	cprobcqphc	[illegible]
Aldergrove	Fx	cproircmo	bccpr	cbcbx
Donaghadee	bc	bcc	cprcc	c
Birr Castle	ffbcb	bccpr	~~[illegible]~~	~~[illegible]~~ bc,cpro
Valentia Obsy.†	cxbcb	bcpobcpb	bcph	bcp
Roches Point	bc	bc	bcbx	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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

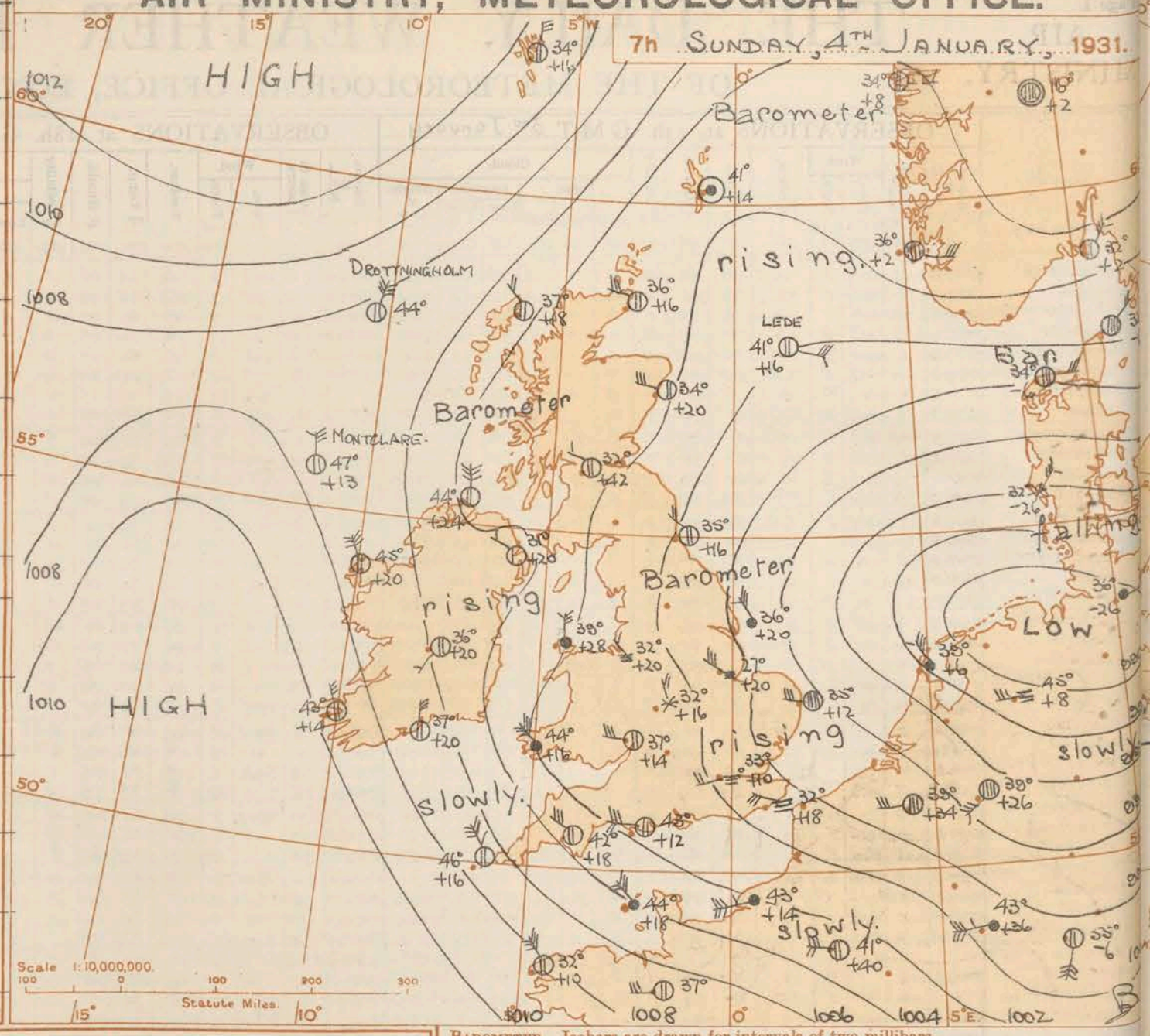
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 3rd January 1931.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 2nd to 9h. 3rd	Temperature. Max. 9h.—17h. 3rd	Rainfall. Night. 17h. 2nd to 9h. 3rd	Rainfall. Day. 9h.—17h. 3rd	Sunshine. Sunrise to Sunset. 3rd
1	Tunbridge W.	oro	oro	31	41	4	3	0.0
	Bournemouth	r	ro	36	38	7	4	0.0
	Ventnor ...	or	oroz	39	40	5	3	0.0
	Southsea ...	or	om	37	40	6	1	0.0
	Bognor Regis	orro	o	33	42	2	3	0.0
	Littlehampton	crc	cod.o	32	41	3	3	0.0
	Worthing ...	od	or.d	35	42	3	2	0.0
	Brighton ...	corc	cd	37	42	3	1	0.0
	Eastbourne†	ofer.r.	r.rron	39	45	3	4	0.0
	Hastings† ...	omopo	oror	38	45	3	1	0.0
	Folkestone ...	xoir	oir.	36	43	3	0.4	0.0
	Dover... ...	oir	oird	37	43	3	0.3	0.0
	Deal	od.o	od.o	35	43	3	0.3	0.0
	Ramsgate ...	o	od	37	42	2	0.2	0.0
	Margate ...	c	cd	38	43	3	0.2	0.0
2	Southend ...	odrz	ormf	36	40	6	1	0.0
	Maldon ...	roir	oir	33	40	5	0.6	0.0
	Clacton-on-Sea	ogd	ogec	31	41	5	0.1	0.0
	Dovercourt ...	roc	roc	34	41	3	Trace	0.0
	Lowestoft ...	c	oirio	33	40	2	0.3	0.0
	Skegness ...	xfo	om	32	39	Trace	0.3	0.0
	Mablethorpe	omxd	omfd	30	38	—	1	0.0
	Cleethorpes ...	xfmc	ofer.	28	36	-	1	0.0
3	Leamington S.	mod	dom	32	37	2	0.4	0.0
4	Cheltenham†	opom	om	34	37	2	Trace	0.0
5	Bath	cf.	cf.	32	39	3	0.3	0.0
	Weymouth ...	rrc	c	37	39	7	1	0.0
	Jersey ...	rrc	cr	40	52	21	4	0.0
	Torquay ...	ormr	opoom	34	40	17	2	0.0
	Penzance ...	c	cbc	38	46	11	-	2.3
	St. Ives ...	o	c	39	45	10	-	0.8
	Bude	rcbc	bcc	38	42	3	-	0.6
	Ilfracombe ...	odc	cbc	40	44	0.6	0.1	0.1
6	Aberystwyth	cbc	b	36	43	-	-	4.1
7	Llandudno ...	cbc	bccir	32	44	0.2	0.6	3.0
	Colwyn Bay...	xcb	brb	31	44	-	0.3	3.4
	Rhyl	xcbcb	bcb	30	39	-	-	3.4
8	Wallasey ...	Fcbc	bcbmr	33	40	-	Trace	2.1
	Southport‖ ...	ofbcf	bcf	31	36	04	-	1.0
	Blackpool ...	ome	cm	32	39	-	-	1.5
	Morecambe ...	rfxcb	cbbam	33	38	2	-	1.2
9	Ilkley... ...	fo	cbc	30	34	-	-	0.4
10	Berwick-on-T.	c	bcc	31	38	-	-	1.1
11	Dunbar ...	cx	bc	34	42	-	-	2.2
12	Douglas ...	xbbc	cbbcx	32	43	-	-	3.6

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 4/10 clouded. ◑ Sky 4/10 to 8/10 clouded. ◑ Sky 8/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. ⚡ Thunderstorm.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 4th January, 1931.

Districts.	Forecasts
1. S.E. England	Wind northwesterly, moderate to fresh locally, becoming light variable later; bright periods; local showers of sleet or snow particularly on high ground and near the East Coast; rather cold with sharp night frost; some local mist at night.
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	
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	Wind variable becoming southwest, light; bright periods; scattered wintry showers; rather cold with night frost inland.
18. N.E. Ireland	
19. S.E. Ireland	
20. S.W. Ireland	

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

GENERAL INFERENCE.

A ridge of high pressure moving in across the British Isles will give mainly fair weather generally, apart from local wintry showers, more especially near the East Coast.

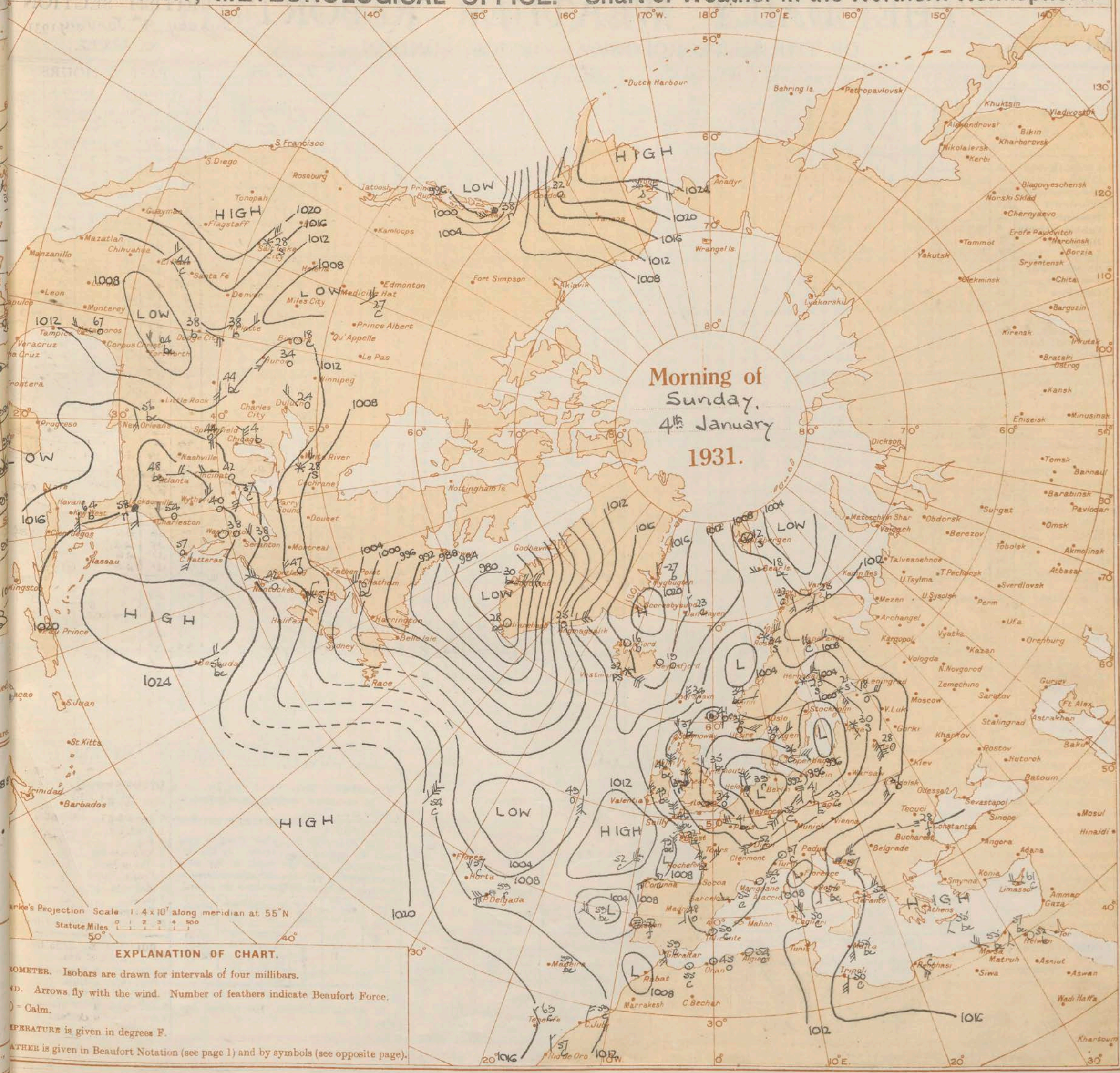
FURTHER OUTLOOK.

None issued.

Forecasts issued at 1100 G.M.T.

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

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



EXPLANATION OF CHART.

ROMETER. Isobars are drawn for intervals of four millibars.

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

) = Calm.

MPERATURE is given in degrees F.

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

Page 4.
AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Sunday, 4th. January 1931.
No. 25245

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0-12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud Form Low (9)	Med. (10)	High (11)	Amount Low 0-10 (12)	Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)...	18	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Croydon ...	217	997·1	+14	WNW	3	m	35	95	4	5	-	-	10	10	450
	S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Winchester ...	275	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Boscombe Down	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Calshot, S'thmtn	8	998·6	+18	W'N	4	m	34	95	4	-	-	-	0	0	-
	Dungeness ...	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Lympne ...	346	995·2	+16	NW	4	id	37	95	5	5	-	-	10	10	800
2	Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Felixstowe ...	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Gorleston ...	14	993·9	0	NNW	3	c	39	95	7	4	-	-	10	10	2500
	Cranwell ...	240	996·7	+4	W'N	3	F	29	95	1	-	-	-	10	10	<150
3	Cardington ...	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Birmingham ...	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Upper Heyford	408	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Leafield ...	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4	Ross-on-Wye ...	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5	Portland Bill...	32	998·8	+8	WNW	4	•c	43	85	8	2	-	•	7·8	7·8	2500
	Plymouth ...	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Falmouth ...	200	1002·9	+9	WNW	4	bc	44	65	8	2	-	•	2·3	2·3	4000
	Scilly (St. Mary's)	163	1004·0	+10	NW'N	6	bc	45	85	8	2	-	•	4-6	4-6	4000
	Guernsey ...	173	1000·8	+28	NW	3	bc	43	75	9	5	-	-	4-6	4-6	2500
6	Pembroke ...	142	998·9	+10	NW	5	q	43	95	8	8	-	•	4-6	4-6	2500
7	Holyhead ...	26	997·5	+8	NW	6	u	43	85	8	8	•	-	9	9	2500
	Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8	L'pool (Bidston)	198	•	•	•	•	•	•	•	•	•	•	•	•	•	•
9	Harrogate ...	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10	Spurn Head ...	67	995·6	0	NWN	3	rf	36	95	3	5	-	•	10	10	220
	Tynemouth ...	29	997·7	+6	WNW	2	bc	31	95	6	2	-	-	2·3	2·3	2500
11	Inchkeith ...	190	997·4	+12	NW	1	c	37	95	7	5	1	-	7·8	9	800
	Leuchars ...	35	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12	Renfrew ...	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Eskdalemuir ...	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
13A	Tiree ...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
13B	Stornoway ...	34	1000·6	+16	NNE	1	bc	39	95	8	3	-	-	4-6	4-6	4000
15	Dalwhinnie ...	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Aberdeen ...	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Wick ...	81	998·7	+18	NNE	3	c	42	85	8	4	6	-	4·6	7-8	2500
16	Lerwick ...	54	999·6	+14	E'N	1	bc	40	85	8	8	-	-	4·6	4·6	2500
17	Blacksod Point	10	1003·4	+12	NW	6	bc	44	75	7	3	-	-	2·3	2·3	2500
18	Malin Head ...	51	998·8	+16	N	6	bc/pr/c	42	95	8	3	6	-	2·3	4·6	1500
	Aldergrove ...	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Donaghadee ...	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
19	Birr Castle ...	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
20	Valentia Obsy.†	30	1006·4	+6	NW	6	bc	40	95	8	-	4	-	0	4·6	-
	Roches Point...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•

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

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0-12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud Form Low (23)	Med. (24)	High (25)	Amount Low 0-10 (26)	Total 0-10 (27)	Height of Base (feet) (28)	State of Ground 0-9 (29)	Sea 0-9 (30)	Temperature Max. Day 7h-18h °F. (31)	Min. Night 18h-7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h-18h mm. (34)	Night 18h-7h mm. (35)	Sunshine 3rd Hrs. (36)
London (Kew)	999·6	+12	WSW	1	o	34	95	5	5	-	-	10	10	1500	1	•	39	34	29	1	Tr.	0·
Croydon	999·6	+10	W'S	2	m	33	95	4	5	-	-	10	10	450	1	•	39	33	31	2	Tr.	0·
S. Farnborough	998·8	+6	-	0	c	34	95	5	5	3	-	7-8	7-8	4000	1	•	38	31	29	1	Tr.	0·
Winchester	1000·0	+6	W'S	3	c	35	95	7	5	-	-	7-8	7-8	2500	1	•	37	31	30	1	Tr.	0·
Boscombe Down	999·8	+6	W	3	bc	35	95	7	7	-	-	2-3	2-3	4000	1	•	36	29	25	1	Tr.	*
Calshot, S'thmtn	999·5	+44	W	4	bc	36	55	7	5	-	-	4-6	4-6	2500	1	1	39	31	23	4	-	0·
Dungeness	•	•	WSW	2	z	•	•	5	-	5	•	0	1	-	•	1	46	32	•	3	4	•
Lympne	998·9	+18	WNW	3	of	32	95	3	5	-	-	10	10	450	1	•	41	31	30	1	2	0·
Shoeburyness	998·7	+20	WNW	3	o	33	95	7	5	-	-	10	10	800	1	•	42	32	31	1	0·1	0·
Felixstowe	998·9	+14	WNW	3	c	34	95	5	5	-	-	10	10	2500	1	3	41	33	33	0·4	0·1	0·
Gorleston	996·1	+12	W'N	3	o/r	35	95	6	6	-	-	10	10	1500	1	2	42	34	34	1	2	0·
Cranwell	999·1	+20	WNW	3	F	27	95	1	5	-	-	10	10	<150	4	•	35	26	26	1	0·1	0·
Cardington	999·4	+12	W	2	f	32	95	2	5	-	-	10	10	<150	1	•	37	31	31	0·6	Tr.	0·
Birmingham	1000·4	+16	NNW	2	cf	32	95	3	6	-	-	10	10	800	8	•	37	29	17	0·5	3	0·
Upper Heyford	999·8	+14	-	0	of	32	95	3	5	-	-	10	10	<150	1	•	36	31	29	0·2	0·2	*
Leafield	999·5	+8	NNW	3	c	34	95	8	5	-	-	9	9	2500	1	•	35	30	28	0·1	0·2	0·
Ross-on-Wye	1000·5	+14	W	2	c	37	85	8	5	-	-	9+	9+	2500	1	•	37	27	19	0·3	0·1	0·
Portland Bill	1001·4	+12	W'N	5	c	43	85	9	4	5	-	4-6	7-8	2500	2	4	41	37	•	6	-	
Plymouth	1003·6	+18	WNW	3	c/pr	42	85	9	9	3	-	4-6	7-8	2500	2	1	41	37	34	4	2	0·
Falmouth	1004·9	+14	NW'W	6	PR	44	75	7	3	-	-	4-6	4-6	4000	1	3	43	40	•	1	0·5	2·
Scilly (St. Mary's)	1006·5	+16	NW'N	7	bc	46	75	7	3	-	-	4-6	4-6	4000	0	4	47	43	•	Tr.	-	2·
Guernsey	1004·0	+18	NW	5	pr	44	75	6	6	-	-	10	10	1500	2	4	53	42	36	8	3	0·
Pembroke	1001·6	+16	NW	5	pr	44	95	8	8	8	-	9	9+	1500	0	2	44	41	•	0·2	Tr.	3·
Holyhead	1002·1	+28	N	4	pr	39	95	6	9	-	-	9+	9+	1500	1	2	46	38	37	0·1	7	4·
Chester (Sealand)	1000·7	+20	NW	1	F	32	95	1	5	-	-	10	10	<150	8	•	33	26	25	-	6	0·
L'pool (Bidston)	1000·8	+22	WSW	2	F	31	95	1	5	-	-	10	10	<150	5	•	38	31	30	Tr.	5	3·
Harrogate	1000·7	+10	WSW	1	bc	32	85	7	5	-	-	2-3	2-3	4000	4	•	35	27	21	-	-	0·
Spurn Head	996·8	+2	NNW	4	rr	36	95	5	6	-	-	10	10	2500	1	4	39	34	•	1	3	0·
Tynemouth	999·3	+16	NW	2	bc/rs	35	95	7	9	-	-	4-6	4-6	2500	1	2	37	31	25	-	2	•
Inchkeith	1001·6	+18	N	2	c	38	85	8	5	1	-	4-6	9	2500	0	0	41	36	34	-	2	2·
Leuchars	1002·5	+20	NW	2	c	35	85	7	5	3	-	2-3	7-8	5700	4	•	38	29	23	-	Tr.	0·
Renfrew	1003·0	+42	WNW	1	bc	32	95	6	5	-	-	2-3	2-3	2500	5	•	42	31	26	1	3	1·
Eskdalemuir	1002·0	+20	N'E	2	bc	32	95	6	2	4	-	1	2-3	2500	5	•	35	31	26	0·3	1	0·
Tiree	1004·2	+34	N	4	bc	41	75	9	8	5	-	2-3	2-3	2500	0	3	45	40	36	1	2	1·
Stornoway	1004·3	+18	NW	2	bc	37	95	8	9	-	-	4-6	4-6	4000	1	1	40	36	•	8	1	0·
Dalwhinnie	1004·1	+24	NNE	2	c	33	85	8	5	^	-	7-8	7-8	2500	6	•	37	31	•	3	-	0·
Aberdeen	1002·1	+20	WNW	3	bc	34	95	8	8	3	-	2-3	4-6	2500	4	1	39	31	27	-	0·3	0·
Wick	1002·2	+16	WNW	3	c	36	95	8	8	-	-	4-6	4·6	2500	1	3	38	34	•	2	0·5	0·
Lerwick	1002·4	+14	-	0	pr	41	85	7	8	2	-	4-6	7-8	1600	1	•	43	40	•	[illegible]	1	0·
Blacksod Point	1007·6	+20	NW'N	6	bc	45	85	8	3	•	-	2-3	2-3	2500	1	5	47	42	•	0·5	4	•
Malin Head	1003·4	+24	N	6	bc/p	44	95	8	3	6	-	2-3	2-3	2500	1	4	43	41	•	2	3	0·
Aldergrove	1004·5	+20	WNW	1	b	31	85	8	5	-	-	1	1	2500	4	•	36	31	21	1	1	0·
Donaghadee	1002·2	+20	WNW	2	c	41	85	7	3	-	-	7-8	7-8	800	0	1	39	35	•	-	0·4	
Birr Castle	1005·4	+20	SW	1	c/pr	36	95	8	6	-	-	7-8	7-8	1500	1	•	40	35	31	Tr.	0·6	3·
Valentia Obsy.†	1008·8	+14	NNW	3	bc	43	85	8	2	4	-	2-3	2-3	2500	1	2	46	42	38	1	0·6	5·
Roches Point	1007·8	+20	N	3	bc	37	85	8	8	-	-	2-3	2-3	1500	0	2	44	34	•	-	-	

LONDON OBSERVATIONS.

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Afternoon	Night	Temperature Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Night mm.	Sunshine to Sunset, hrs.	Humidity 15h. G.M.T. % (Yesterday)	9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	oi₀m	o₀mcm	cm₀m	39	34	29	1	Tr.	0·0	•	•	4
Croydon	217	od₀rf	or₀rff	om	39	33	31	2	Tr.	0·0	•	•	
Greenwich (Royal Observatory)	149	o₀d₀f	od₀d₀f	ocodf	39	33	30	1	Tr.	0·0	94	96	3
City (Bunhill Row)	—				•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Park)	27	•	•	•	40	35	31	1		0.0	61	90	•
Regents Pk. (Botanic Gardens)	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	or	doro	•	38	34	31	1	-	•	•	94	•
Kensington Palace	80	odr	odr	•	39	34	30	1	Tr.	•	At 18h. 95	94	•
Hampstead Observatory	450	omr	o	•	37	29	27	1	Tr.	0.0	•	96	•

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

SOUTH KENSINGTON. Max.	Time.	Min.	Time.
0·8	9h. 3rd	<0·3	6h-7h. 4th

KEW OBSERVATORY. Max.	Time.	Min.	Time.
0·4	15h. 3rd	0·2	6h. 4th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 3rd January Barom. mb.	Wind Direc.	Force	Weather	Temp. °F.	7h. G.M.T. 4th January Barom. mb.	Wind Direc.	Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Night mm.
Paris	993·8	SSW	2	r₀r₀	54	1003·7	WNW	3	bc	41	55	41	9	5
Brussels	991·1	SW	3	c	52	998·0	W	3	o	39	54		1	
Berlin	1000·4	SE	1	m	36	994·0	S	2	f	41	37	32	Tr	3
Zürich	1006·3	SW	4	c	46						54		0·2	
Rome	1012·7	ESE	2	c	55	1013·2	S	1		55			-	

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1½ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6¼ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 5th January 1931.

No. 25246

OBSERVATIONS at 13h. G.M.T. 4th January

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)...	1004·4	+22	NW'W	3	c	33	75	5	7	–	8	1	7-8	1500
	Croydon ...	1004·6	+22	WNW	3	bcf	37	95	3	5	7	–	2-3	4-6	800
	S. Farnborough	1004·4	+24	NW	3	c	38	85	6	5	3	–	4-6	7-8	1500
	Winchester ...	1005·2	+22	NW	4	c	39	95 (84)	7	4	–	–	7-8	7-8	2500
	Boscombe Down	1005·7	+26	NNW	4	bc	38	85	7	7	–	–	4-6	4-6	2500
	Calshot, S'thmtn	1004·8	+16	NW'N	5	bc	41	85	6	7	–	–	2-3	2-3	2500
	Dungeness ...	· ·	·	NW	2	bc	·	·	6	5	–	·	4-6	4-6	2500
	Lympne ...	1002·6	+10	WNW	3	b	37	85	5	5	–	–	Tr.	Tr.	450
2	Shoeburyness	1003·0	+14	NW	3	b	38	85	6	7	–	–	1	1	2500
	Felixstowe ...	1003·7	+24	NW	3	c	36	95	5	5	–	–	9	9	800
	Gorleston ...	1001·0	+24	NW	2	rr	35	95	4	6	–	–	10	10	1500
	Cranwell ...	1003·7	+14	NW	4	c	33	95	5	5	3	1	4-6	9	1500
3	Cardington ...	1004·1	+16	NW'W	4	z	37	85	5	–	4	–	0	Tr.	–
	Birmingham ...	1006·0	+12	NW	3	bf	34	95	3	–	–	–	0	0	–
	Upper Heyford	1005·8	+26	NW	3	m	34	95	4	5	–	–	10	10	800
	Leafield ...	1005·3	+16	NW	4	c	34	95	6	5	–	–	7-8	7-8	1500
4	Ross-on-Wye ...	1006·3	+16	N'W	2	b	40	75	7	1	–	–	Tr.	Tr.	4000
5	Portland Bill...	1005·4	+16	WNW	4	c	43	75	8	8	4	–	4-6	7-8	2500
	Plymouth ...	1008·1	+18	NW	5 (4)	bc/pr	45	75	8	3	–	–	2-3	2-3	2500
	Falmouth ...	1009·8	+12	NW	5	bc/pr	44	75	8	8	–	–	4-6	4-6	4000
	Scilly (St. Mary's)	1011·2	+14	NW'N	5	bc	49	75	8	1	–	1	4-6	4-6	4000
	Guernsey ...	1007·2	+12	NW	4	c	47	65	8	8	–	–	7-8	7-8	2500
6	Pembroke ...	1007·8	+10	NNW	4	bc	45	85	8	8	–	–	4-6	4-6	1500
7	Holyhead ...	1007·9	+22	NNE	4	u	43	85	8	7	–	–	4-6	4-6	2500
	Chester (Sealand)	1006·6	+22	NW	3	b	39	95	6	1	–	–	Tr.	Tr.	2500
8	L'pool (Bidston)	1006·6	+16	NW'W	3	bc	40	85	7	3	–	–	4-6	4-6	2500
9	Harrogate ...	1004·9	+20	W'N	2	c	37	85	7	6	4	–	7-8	7-8	2500
10	Spurn Head ...	1002·1	+8	NNW	5	c	37	95	6	3	3	–	4-6	7-8	2500
	Tynemouth ...	1004·5	+20	NNW	2	c/rs	37	95	7	9	–	–	7-8	7-8	2500
11	Inchkeith ...	1006·7	+20	WNW	3	bc	40	85	8	–	7	–	0	4-6	–
	Leuchars ...	1006·6	+18	NW	3	c	40	75	8	7	3	–	7-8	7-8	4000
12	Renfrew ...	1008·2	+22	WNW	2	b	40	75	6	1	–	–	Tr.	Tr.	2500
	Eskdalemuir ...	1006·3	+22	N'E	2	bc	37	85	8	7	–	–	2-3	2-3	4000
13A	Tiree ...	1009·3	+16	N	3	b	45	85	9	4	4	–	1	1	2500
13B	Stornoway ...	1009·5	+16	N	2	c	42	95	8	8	6	–	7-8	9	4000
15	Dalwhinnie ...	1009·2	+10	NNW	1	c	35	85	8	5	–	–	7-8	7-8	2500
	Aberdeen ...	1006·3	+20	NW'W	3	bc	38	95	8	8	–	–	2-3	2-3	2500
	Wick ...	1006·7	+20	WNW	2	bc	40	95	8	8	6	–	2-3	2-3	2500
16	Lerwick ...	1005·9	+12	NNW	1	bc	41	85	8	8	8	–	4-6	4-6	1500
17	Blacksod Point	1011·4	+20	N	1	bc	45	85	8	5	–	–	2-3	2-3	2500
18	Malin Head ...	1008·8	+18	N	3	cjp	45	95	8	3	–	–	7-8	7-8	2500
	Aldergrove ...	1009·4	+16	NNW	1	b	39	85	8	5	–	–	Tr.	Tr.	2500
	Donaghadee ...	1007·7	+20	NNE	2	bc	45	65	8	7	3	–	4-6	4-6	4000
19	Birr Castle ...	1011·1	+20	NNW	1	bc	43	65	8	–	4	–	0	4-6	–
20	Valentia Obsy.†	1013·3	+12	NW	2	c	48	75	8	1	–	2	2-3	7-8 (4-6)	2500
	Roches Point...	1011·0	+14	N	4	bc	44	65	8	8	–	–	2-3	2-3	1500

OBSERVATIONS at 18h. G.M.T. 4th January — 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)	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)	Weather 7h.–13h. 4th (37)	Weather 13h.–18h. 4th (38)	Weather 18h. 4th to 1h. 5th (39)	Weather 1h.–7h. 5th (40)
London (Kew)...	1010·6	+40	W'N	2	c	37	85	5	5	3	8	4-6	7-8	2500	1	*	ombcm₀	cm₀bcm₀	bcm₀cfx	cfx
Croydon ...	1010·5	+36	NW'W	3	cf	37	85	3	5	–	–	9+	9+	1500	1	*	om₀mcmdf	bcmcf	effbx	bxffm
S. Farnborough	1010·2	+36	NW	2	c	36	95	6	5	–	–	9	9	1500	1	*	p	bc	cm₀bm₀x	bm₀x
Winchester ...	1011·4	+30	W'N	3	b	33	95	6	–	–	–	0	0	–	1	*	cbcc	cbcbm₀	bm₀x	bm₀x
Boscombe Down	1011·4	+30	NW	4	b	36	85	6	7	–	–	1	1	2500	1	*	bbccbc	bcbbcm₀	bcbm₀	bm₀x
Calshot, S'thmtn	1011·1	+28	NW'W	3	b	35	85	6	–	–	–	0	0	–	1	1	bccbcm₀	bm₀	bxm₀	bxm₀
Dungeness ...	·	·	NW	2	F	·	·	z!	5	–	·	10	10	800	·	1	bc	bc	·	f
Lympne ...	1008·4	+36	NW'W	4	c	36	85	5	5	–	–	9+	9+	800	1	*	ofocm₀	bm₀cfom₀	cm₀	cbfx
Shoeburyness	1008·6	+34	WNW	2	c	36	95	7	5	–	–	10	10	1500	1	*	ocbcbm₀	co	ocbcbx	bx
Felixstowe ...	1008·1	+30	NW	3	c	36	95	5	5	–	–	7-8	7-8	800	1	3	cm₀	cdcbcm₀	bcm₀bm₀	bm₀
Gorleston ...	1006·3	+28	NW'W	3	c	37	95	6	–	7	–	0	7-8	–	1	2	or₀s₀o	omr₀s₀c	ocbcx	bxm₀
Cranwell ...	1009·7	+40	NW'W	3	bc	34	95	5	5	3	1	2-3	4-6	4000	1	*	Fxpbs	cbcm₀	bcm₀bmx	bmfx
Cardington ...	1009·7	+28	NW'W	3	z	35	85	5	–	4	–	0	1	–	1	*	offombm₀	bm₀	bm₀	bm₀fx
Birmingham ...	1011·1	+32	NW	3	bf	35	95	3	–	–	–	0	0	–	8	*	os₀Fbf	bbf.	bf bmx	bmx
Upper Heyford	1011·3	+30	NW	2	m	35	95	4	5	–	–	10	10	800	1	*	ofecom	ocom	omcbz	bx
Leafield ...	1011·1	+20	NW	2	bc	34	95	6	5	–	–	2-3	2-3	2500	4	*	or₀s₀c	bcb	bx	bx
Ross-on-Wye ...	1011·6	+26	W'S	1	b	35	85	6	4	–	–	Tr.	Tr.	4000	1	*	bcb	bbz.	b	b
Portland Bill...	1011·3	+22	NW	3	bc	42	75	8	4	–	–	2-3	2-3	2500	1	3	c	cbc	bz₀	bbcz₀
Plymouth ...	1013·0	+28	NW	3	b	43	75	8	3	–	–	1	1	2500	(1)	0	cprb	bcpr₀b	bx	bx
Falmouth ...	1013·4	+16	NW	3	bc	43	75	7	3	–	–	4-6	4-6	4000	1	1	bcPq	bcp₀	bc	bc
Scilly (St. Mary's)	1014·6	+16	NW'N	4	bc	46	85	8	1	–	2	2-3	4-6	4000	0	3	cpbc	cbc	bcc	cbc
Guernsey ...	1012·0	+36	NW	2	bc	45	65	9	5	–	–	4-6	4-6	2500	2 (1)	3	cPHR	cbcbc	bc	bc
Pembroke ...	1012·3	+24	NW	3	bc	41	95	8	8	8	–	2-3	4-6	2500	0	2	cbcq	bc	cbcb	bbcx
Holyhead ...	1012·5	+28	N'W	3	b	42	85	8	8	–	–	1	1	2500	1	2	pr₀bc	bcub	bbc	bc
Chester (Sealand)	1011·7	+34	NW'W	2	bc	36	95	6	5	–	–	4-6	4-6	2500	6	*	Fcfbcbm₀	bbcm₀	bbcfx	bbcifx
L'pool (Bidston)	1011·8	+26	NW	3	b	38	85	7	–	–	–	0	0	–	6	*	Fcbc	b	bbx	bbxf
Harrogate ...	1010·2	+26	W'S	1	bc	37	85	7	5	–	–	4-6	4-6	2500	4	*	bcc	cbbc	bcb	bx
Spurn Head ...	1007·8	+14	NNW	4	c	38	95	6	6	3	–	7-8	9+	2500	1	4	orzc	crr	cirbc	bc
Tynemouth ...	1009·2	+24	NW	2	ir	37	95	7	6	–	–	9	9	1500	1	2	bcoirs₀	coir₀	cir₀bc	bbc
Inchkeith ...	1010·4	+26	NW	3	b	39	85	8	–	4	–	0	1	–	0	1	cbc.	bcb	bc	bccmm
Leuchars ...	1010·3	+22	NW	2	c	37	85	8	7	–	–	7-8	7-8	4000	4	*	cbcxc	cbbcx	bccx	xcpr
Renfrew ...	1011·9	+24	W	1	b	33	85	6	–	–	–	0	0	–	5	*	bm₀	bzm₀	bxm₀	bxm₀
Eskdalemuir ...	1011·7	+30	NNW	1	bc	36	75	6	7	–	–	2-3	2-3	2500	4	*	bbcb	oc	bx	bcx
Tiree ...	1012·7	+22	N	4	c	44	75	8	8	–	–	7-8	7-8	1500	0	3	bbcb	bbccbr₀	bcbbc	bccv
Stornoway ...	1013·0	+20	N	2	c	39	95	8	9	–	–	7-8	7-8	4000	1	1	cpr	cbcp₀	bc	bcc
Dalwhinnie ...	1011·9	+20	N	1	c	35	85	7	5	–	–	9	9	2500	6		bcc	bcc	bcc	bcc
Aberdeen ...	1009·9	+26	NW'W	3	pr	37	95	8	8	–	–	4-6	4-6	2500	4	1	bcjpb	bcpr₀	bcpr	bcpr
Wick ...	1009·9	+22	NW	2	bc	39	95	8	8	9	–	4-6	4-6	2500	1	2	bc	bcpr	cprbc	[illegible]
Lerwick ...	1009·8	+20	N	4	bc/pr	41	75	8	8	6 (9)	–	2-3	4-6	1500	1	*	cpr₀bc	bcpr₀	bc	bc
Blacksod Point	1013·9	+6	W	1	bc	41	85	8	5	–	3	2-3	4-6	2500	1	2	bc	pbc	bc	bc
Malin Head ...	1012·3	+18	N	3	b	45	95	8	7	–	–	1	1	2500	0	2	bcp₀	cp₀bc	cbcc	cbcc
Aldergrove ...	1013·2	+24	–	0	b	36	95	6	5	–	–	Tr.	Tr.	1600	4	*	bxb	bm₀	bm₀	xF
Donaghadee ...	1012·0	+20	WSW	2	bc	40	85	7	5	2	–	4-6	4-6	4000	0	1	cbc	bc	bbcc	cx
Birr Castle ...	1014·7	+24	S	1	b	35	95	6	–	–	1	0	1	–	[illegible]	*	cbc	bcb	bffx	bffbcx
Valentia Obsy.†	1015·1	+16	NE'N	2	c	39	95	8	–	3	2	0	·9	–	1	2	bcp₀bcc	c.	cc·w	bcwc
Roches Point...	1014·6	+20	NW	2	bc	44	85	8	5	–	9	2-3	4-6	1500	0	2	bc	bc	bccxw	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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{20}$ 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.

COLUMMS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

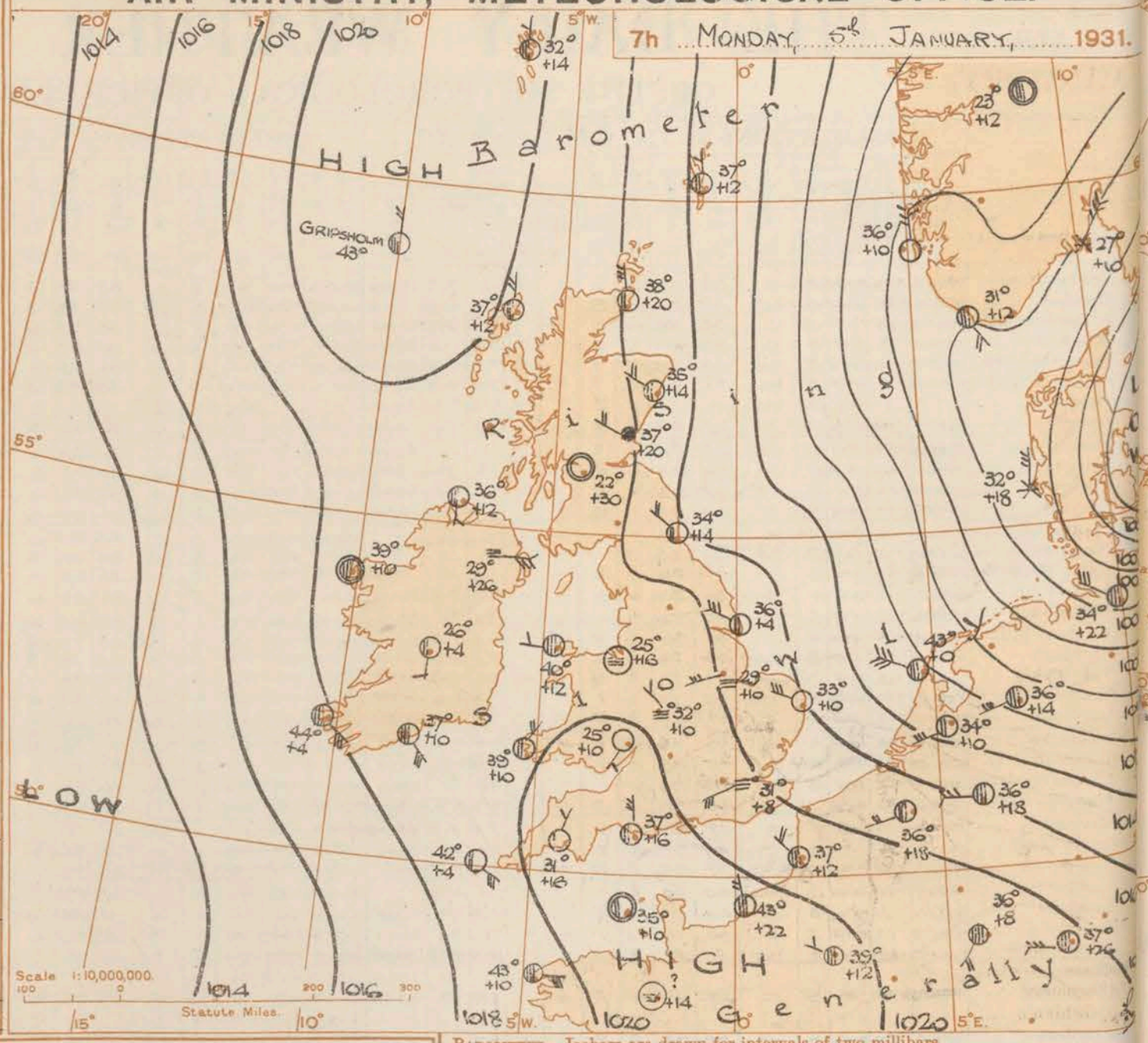
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 4th JANUARY 1931.

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.	opoc	bco	31	38	1	Tr.	1·1
	Bournemouth	bcb	bbf	32	43	1	—	6·0
	Ventnor ...	bbcb	b	34	44	—	Tr.	6·4
	Southsea ...	bc	bm	32	41	—	—	4·0
	Bognor Regis	bcbc	b	33	41	—	—	5·0
	Littlehampton	bc	b	32	42	0·1	—	4·1
	Worthing ...	bbc	cbc	32	41	Tr.	—	3·7
	Brighton ...	cbcb	bc	32	41	—	—	3·3
	Eastbourne†	cbcc	cbcb	31	41	2	—	3·3
	Hastings† ...	xcmb	bcbbc	31	40	4	—	4·1
	Folkestone ...	rofc	bc	32	40	5	—	2·6
	Dover... ...	mmc	ocem	31	40	5	—	2·9
	Deal	b	bcbbc	31	39	4	—	2·3
	Ramsgate ...	cbc	bco	33	40	3	—	1·5
	Margate ...	cbc	bcc	35	40	3	—	1·1
2	Southend ...	ombob	omm	32	39	Tr.	Tr.	3·2
	Maldon ...	ocb	bcb	32	38	0·3	—	2·7
	Clacton-on-Sea	c	c	33	38	—	—	0·2
	Dovercourt ...	roc	bocb	32	36	0·3	Tr.	0·0
	Lowestoft ...	oprs	ocbc	32	38	2	1	0·0
	Skegness ...	drfo	crbc	30	38	1	2	0·2
	Mablethorpe	orsvem	ormm	28	38	2	2	0·0
	Cleethorpes ...	rsoc	frm	30	39	3	Tr.	0·0
3	Leamington S.	fo	cm	28	36	0·2	—	0·0
4	Cheltenham†	omc	cbcr	29	39	1	—	1·5
5	Bath	bcb	bbcc	32	41	Tr.	—	4·2
	Weymouth ...	bcpb	b	33	44	—	Tr.	5·3
	Jersey ...	rc	bc	42	53	6	1	4·0
	Torquay ...	pbbcr	pb	33	46	1	0·4	5·7
	Penzance ...	bc	pr	42	51	0·3	0·2	6·3
	St. Ives ...	c	c	42	48	Tr.	—	5·0
	Bude	pcbc	bcp	36	46	3	0·4	2·2
	Ilfracombe ...	copc	cbr	40	46	0·4	0·1	0·3
6	Aberystwyth	phrbc	bcb	35	43	10	—	5·6
7	Llandudno ...	cbc	c	33	43	1	—	2·3
	Colwyn Bay...	cbcb	bcbo	34	42	1	—	1·3
	Rhyl	cbcb	bc	31	43	2	—	2·9
8	Wallasey ...	cbcb	b	31	41	4	—	4·8
	Southport‖ ...	bcf	brm	31	38	0·2	—	4·7
	Blackpool ...	mb	bcb	31	40	0·2	—	6·5
	Morecambe ...	cxbbc	bcx	28	38	—	—	4·5
9	Ilkley... ...	ir	ir	23	39	—	—	1·9
10	Berwick-on-T.	crcc	obcc	30	41	9	Tr.	2·2
11	Dunbar ...	bc	b	34	41	4	0·2	1·6
12	Douglas ...	bcbc	bcx	32	41	1	—	6·1

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 5th Jan. 1931
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Light westerly or variable wind; fair, but fog locally especially tonight and early tomorrow; cold or rather cold by day, night frost.
5. S.W. England 6. South Wales	Moderate southeasterly wind; mainly fair, but cloud probably increasing; rather cold today, probably milder tomorrow
7. North Wales 8. N.W. England	Light or moderate variable or easterly to southerly wind; fair; fog locally, especially tonight and early tomorrow; cold or rather cold by day, night frost.
9. N. Midlands 10. N.E. England 11. S.E. Scotland	As 1-4.
12. S.W. Scotland & Isle of Man	As 6-8.
13. A. W. Scotld. B. N.W. Scotland.	Light variable or moderate southeast or south wind; fair and cold at first; perhaps milder and less settled later.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands	Light or moderate northerly or variable wind; mainly fair; cold, night frost; probably local fog tonight and early tomorrow.
17. N.W. Ireland	As 20.
18. N.E. Ireland	As 6-8.
19. S.E. Ireland 20. S.W. Ireland	Wind southeasterly, moderate or fresh, perhaps veering later; cloudy; perhaps showers or occasional rain later; rather cold at first, somewhat milder later.

GENERAL INFERENCE.

A ridge of high pressure extends from north to south across the British Isles. Weather will be cold and mainly fair in most districts, though probably with fog at night. In the West conditions will be milder and perhaps less settled.

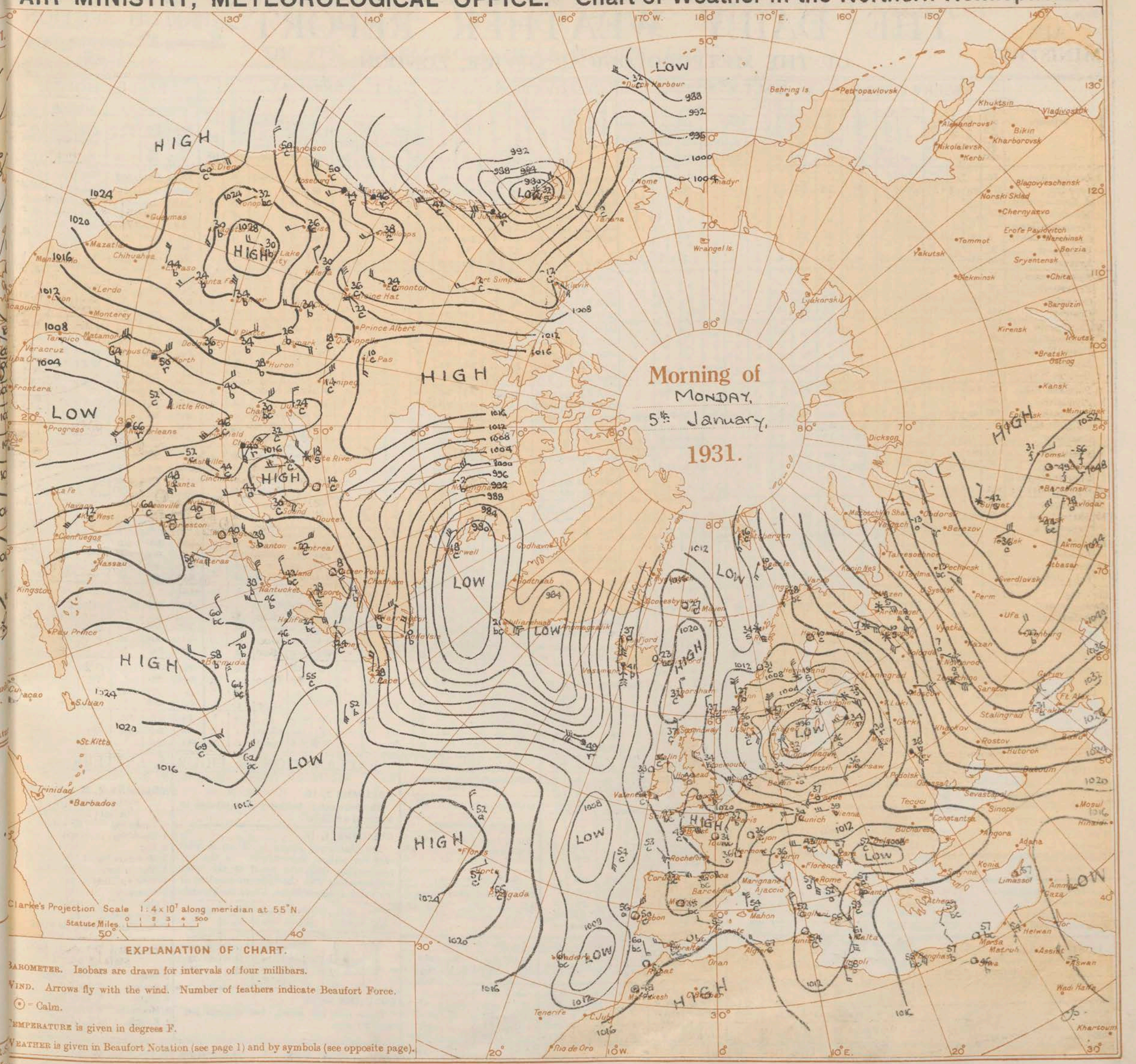
FURTHER OUTLOOK.

Perhaps somewhat unsettled in the extreme West: mainly fair and probably cold in most other districts.

Forecasts issued at 1020 G.M.T.

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 5th January 1931.

No. 25246

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

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	1016·2	+20	WNW	2	f	32	95	3	-	-	-	0	0	-
	S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Winchester ...	275	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Boscombe Down	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Calshot, S'thmtn	8	1016·5	+26	WNW	3	b	35	85	6	-	-	-	0	0	-
	Dungeness ...	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Lympne ...	346	1014·7	+16	NW	4	c	35	95	5	5	-	-	7-8	7·8	1500
2	Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Felixstowe ...	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Gorleston ...	14	1013·0	+30	NW'W	2	bc	36	95	6	-	1	-	0	2·3	-
	Cranwell ...	240	1014·8	+20	W'N	3	m	33	85	4	-	-	-	0	0	-
3	Cardington ...	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Birmingham ...	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Upper Heyford	408	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Leafield ...	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4	Ross-on-Wye ...	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5	Portland Bill...	32	1016·8	+14	N'W	3	b	39	75	6	-	-	-	0	0	-
	Plymouth ...	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Falmouth ...	200	1017·9	+10	N	2	bc	41	75	8	5	-	6	2·3	4·6	5700
	Scilly (St. Mary's)	163	1018·0	+8	ENE	2	bc	43	85	8	7	-	1	4·6	4·6	4000
	Guernsey ...	173	1017·0	+12	-	0	c	39	85	7	5	-	-	~~(7-8)~~ 4-6	~~(7-8)~~ 4-6	2500
6	Pembroke ...	142	1017·0	+8	NNE	1	b	40	95	8	1	-	9	Tr	1	4000
7	Holyhead ...	26	1016·4	+12	NW'N	3	bc	44	75	8	7	-	-	2·3	2·3	4000
	Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8	L'pool (Bidston)	198	•	•	•	•	•	•	•	•	•	•	•	•	•	•
9	Harrogate ...	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10	Spurn Head ...	67	1013·0	+10	NW	4	bc	36	95	6	5	4	-	2·3	4·6	1500
	Tynemouth ...	29	1014·0	+18	WNW	3	b	35	85	7	-	-	-	0	0	-
11	Inchkeith ...	190	1015·1	+16	SW	3	z	36	95	5	-	4	-	0	2·3	-
	Leuchars ...	35	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12	Renfrew ...	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Eskdalemuir ...	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
13A	Tiree ...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
13B	Stornoway ...	34	1017·5	+16	NNE	1	bc	35	95	8	4	6	-	4·6	4·6	4000
15	Dalwhinnie ...	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Aberdeen ...	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Wick ...	81	1014·5	+16	NNW	4	bc	40	95	8	3	7	-	4·6	4·6	2500
16	Lerwick ...	54	1013·1	+10	NNW	3	bc	36	75	8	7	6	-	2·3	4·6	2500
17	Blacksod Point	10	1016·9	+10	-	0	bc	40	95	8	-	-	7	0	4·6	-
18	Malin Head ...	51	1016·5	+10	SW	2	c	38	95	7	7	-	-	9	9	2500
	Aldergrove ...	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Donaghadee ...	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
19	Birr Castle ...	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
20	Valentia Obsy.†	30	1016·1	+6	SE	3	c	41	95	8	-	9	4	0	7·8	-
	Roches Point...	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•

OBSERVATIONS at 7 hr. G.M.T. 5th January — 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)	1019·5	+14	SW'W	2	fc	31	95	3	5	-	-	9	9	1500	4	*	39	29	20	Tr.	-	1·9
Croydon	1018·8	+8	W'S	3	m	31	95	4	-	-	-	0	0	-	4	*	39	30	26	Tr.	-	0·3
S. Farnborough	1019·2	+14	W	1	b	27	95	5	-	-	-	0	0	-	4	*	39	26	16	Tr.	Tr.	2·3
Winchester	1020·0	+20	SW	1	b	27	95	6	-	-	-	0	0	-	4	*	39	25	18	—	-	3·1
Boscombe Down	1020·3	+12	W	1	b	29	95	5	-	-	-	0	0	-	4	*	38	27	20	—	-	*
Calshot, S'thmtn	1019·6	+14	WNW	2	b	30	95	6	-	-	-	0	0	-	1	1	41	29	21	—	-	5·5
Dungeness	*	*	W	2	fb	*	*	2	-	-	*	0	Tr.	-	*	0	40	29	*	—	Tr.	*
Lympne	1018·3	+18	NW	3	fb-	30	95	3	-	-	-	0	0	-	1	*	38	30	26	Tr.	-	2·1
Shoeburyness	1018·0	+8	W'N	2	b	31	95	7	-	-	-	0	0	-	4	*	39	30	24	—	-	0 ~~4~~·0
Felixstowe	1017·8	+14	NW'W	2	m₀	34	85	5	-	-	-	0	0	-	4	2	36	33	29	Tr.	-	0·0
Gorleston	1016·4	+10	WNW	3	b	33	95	6	-	-	-	0	0	-	4	2	37	32	30	3	-	0·0
Cranwell	1018·3	+20	W'S	3	fb	29	95	3	-	-	-	0	0	-	4	*	35	28	25	0·2	-	1·0
Cardington	1019·1	+10	NW'W	2	f	32	95	2	5	-	-	10	10	<150	5	*	37	27	24	Tr.	-	2·8
Birmingham	1019·7	+10	NW	1	m	32	96	4	-	-	-	0	0	-	8	*	36	31	15	0·1	-	0·0
Upper Heyford	1020·1	+20	NNW	2	b	31	95	7	-	-	-	0	0	-	4	*	35	29	19	0·1	-	*
Leafield	1019·5	+10	NW'W	2	b	30	85	7	-	-	-	0	0	-	4	*	36	29	23	0·2	-	2·0
Ross-on-Wye	1020·2	+10	SW	1	m₀	25	95	5	-	-	1	0	Tr.	-	4	*	41	24	14	—	-	5·4
Portland Bill	1019·8	+16	N'W	3	bc	37	75	6	5	-	-	2·3	2·3	1500	1	3	46	35	*	—	—	*
Plymouth	1020·4	+16	NNE	1	b	31	95	7	-	-	1	0	Tr.	-	4	0	46	31	26	0·1	-	6·3
Falmouth	1020·9	+8	N'E	2	bc	36	95	7	8	-	-	4·6	4·6	4000 ~~(2500)~~	0	1	48	35	*	2	-	5·4
Scilly (St. Mary's)	1019·5	+4	ESE	3	bc	42	85	8	1	-	1	2·3	2·3	4000	0	1	49	41	*	0·3	-	5·7
Guernsey	1020·3	+10	-	0	bc	35	95	8	5	-	-	4·6	4·6	2500	1	3	47	35	25	3	-	2·2
Pembroke	1019·2	+10	NE	2	bc	39	95	8	1	-	9	Tr.	2·3	4000	0	1	45	38	*	—	-	4·2
Holyhead	1018·9	+12	W	1	c	40	95	8	4	-	1	7·8	9+	2500	1	0	44	37	27	0·2	-	4·7
Chester (Sealand)	1019·3	+16	-	0	Fbc	25	95	1	5	-	-	4·6	4·6	2500	4	*	39	25	20	—	-	2·7
L'pool (Bidston)	1019·2	+14	S'W	1	m	32	95	4	7	-	-	1	1	4000	5	*	40	31	27	—	-	4·2
Harrogate	1018·9	+10	SW	1	b	32	85	7	1	-?	-?	Tr.	Tr	4000	4	*	38	31	26	—	-	1·8
Spurn Head	1016·1	+4	NW'W	4	bc	36	95	6	-	2	-	0	2·3	-	5	3	39	35	*	3	2	13
Tynemouth	1015·4	+14	NW	2	bc	34	85	6	2	-	-	4·6	4·6	2500	4	2	38	33	28	3	0·5	*
Inchkeith	1018·3	+20	W	2	m₀	36	95	5	5	8	-	2·3	7·8	800	0	!	40	34	33	—	-	2·3
Leuchars	1018·4	+20	WNW	2	pr	37	85	8	5	-	-	9+	9+	2500	4	*	41	32	26	—	Tr.	4·3
Renfrew	1019·2	+30	-	0	b	22	95	6	-	-	-	0	0	-	4	*	41	21	14	—	-	5·4
Eskdalemuir	1019·7	+8	-	0	bc	21	96	7	7	-	-	4·6	4·6	2500	4	*	37	20	16	—	-	4·5
Tiree	1019·3	+10	NE'N	2	c	40	85	9	5	7	4	4·6	7·8	2500	0	3	45	40	34	Tr	-	3·6
Stornoway	1019·8	+12	N	2	c	37	75	8	7	6	-	7·8	9+	4000	1	!	42	33	*	1	0·2	0·[illegible]
Dalwhinnie	1019·9	+10	N	1	c	31	95	8	5	1	-	4·6	7·8	2500	6	*	35	31	*	—	-	0·[illegible]
Aberdeen	1017·7	+14	NW'W	2	bc	35	95	7	5	3	-	4·6	4·6	4000	4	1	38	35	31	0·1	1	3·[illegible]
Wick	1018·2	+20	NNW	3	bc	38	75	8	7	6	-	4·6	4·6	1500	0	3	41	35	*	0·1	1	*
Lerwick	1015·9	+12	N	1	bc	37	75	8	7	-	-	4·6	4·6	1500	0	*	42	35	*	1	Tr.	2·4
Blacksod Point	1018·6	+10	-	0	c	39	95	8	-	-	2	0	7·8	-	0	3	46	36	*	0·2	Tr.	*
Malin Head	1018·9	+12	S	1	c	36	95	8	1	6	-	2·3	9+	2500	0	2	45	35	*	Tr.	-	3·3
Aldergrove	1018·9	+26	E	4	F	29	95	1	-	-	-	-	-	-	4	*	41	29	19	Tr.	Tr.	6·4
Donaghadee	1018·4	+10	W	2	c	36	95	7	5	-	-	7·8	7·8	1500	0	1	45	34	*	—	-	*
Birr Castle	1018·7	+4	S	1	bc ~~(f)~~	26	95	8	-	1	-	0	4·6	-	4	*	44	26	15	—	-	5·2
Valentia Obsy.†	1017·4	+4	ESE	3	c	44	75	8	5	1	-	3	10	2500	1	2	48	34	32	0·1	Tr.	2·7
Roches Point	1018·6	+10	SE	3	c	37	95	8	3	-	-	7·8	7·8	1500	0	3	47	34	*	—	Tr.	*

LONDON OBSERVATIONS.

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temp. Day Max. °F.	Temp. Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset, hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew ...	18	ombcm₀	cm₀bcm₀	bcefx	39	29	20	Tr.	–	1·9	•	•	2
Croydon ...	217	omd₀ff	bcmcf	cffbx	39	30	26	Tr.	–	0·3	•	•	2
Greenwich (Royal Observatory) ...	149	cscbf	bccdcm	cfbxoF	39	29	17	Tr.	Tr.	0.0	79	95	1
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•	0·3	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	41	29	24	–	–	0·2	68	95	•
Regents Pk. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	1·6	•	•	•
Camden Square ...	110	omcb	bcb	•	37	31	21	–	–	•	•	91	•
Kensington Palace ...	80	om	bcm	•	39	30	21	–	–	•	At 18h. 95	89	•
Hampstead Observatory ...	450	omrbc	bmx	•	37	26	18	Tr.	Tr.	1·9	•	5·3	•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
1·3	22h. 4th	0·5	5h. 5th

Kew Observatory. Max.	Time.	Min.	Time.
0·6	21h. 4th	0·1	7h. 4th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 4th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 5th January 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 ...	1009.7	WNW	3	c	41	1020.1	WNW	1	c	39	46	37	3	–
Brussels ...	1005.6	WSW	4	o/pr	41	1016.8	W'S	2	m₀	36	39	32	0·2	3
Berlin ...	996·8	WSW	4	o	43	1003.5	WNW	3	o	34	52	34	2	0·3
Zürich ...						1019.9	W	2	c	34		31		3
Rome ...						1010.6	S	3	c	57		57		Trace

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.

The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.

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

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

COLUMNS 34, 35.

Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday, 6th January 1931.

No. 25.247.

OBSERVATIONS at 13h. G.M.T. 5th January

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)	1021.4	-6	WSW	1	m	36	85	4	-	-	-	0	0	-
	Croydon	1020.9	-6	W'S	2	m	39	75	4	-	-	-	0	0	-
	S. Farnborough	1021.0	-2	WNW	2	b	40	75	6	-	-	5	0	Tr.	-
	Winchester	1021.5	-6	NW	3	b	40	75	6	-	-	-	0	0	-
	Boscombe Down	1021.6	-2	NW	2	b	40	75	6	-	3	-	0	Tr.	-
	Calshot, S'thmtn	1021.6	+2	NWN	2	z	40	75	6	-	-	-	0	0	-
	Dungeness	*	*	NW	2	z	*	*	5	-	-	-	0	0	-
	Lympne	1020.0	-4	NWW	2	z	37	86	5	-	-	-	0	0	-
2	Shoeburyness	1021.2	+4	W	2	m	32	95	4	5	1	-	4-6	10	800
	Felixstowe	1020.0	+2	WNW	2	z	37	85	5	-	-	-	0	0	-
	Gorleston	1018.5	+6	NWW	3	c	37	95	6	8	-	-	7-8	7-8	4000
	Cranwell	1020.3	+6	W'S	3	F	31	95	1	-	-	-	0	0	-
3	Cardington	1020.9	+2	W'N	1	b	39	85	5	-	-	-	0	0	-
	Birmingham	1021.1	+4	WNW	2	m	39	75	4	-	-	-	0	0	-
	Upper Heyford	1021.7	+2	WNW	3	b	40	85	7	-	-	-	0	0	-
	Leafield	1021.2	+14	NWW	2	b	39	75	7	-	-	1	0	Tr.	-
4	Ross-on-Wye	1021.3	0	W'S	1	z	37	85	5	-	-	8	0	Tr.	-
5	Portland Bill	1021.4	0	-	0	bc	46	65	6	5	-	1	2-3	2-3	1500
	Plymouth	1021.8	-2	-	0	b	43	75	7	-	-	1	0	1	-
	Falmouth	1022.3	0	N	1	c	42	85	6	8	-	-	7-8	7-8	4000
	Scilly (St. Mary's)	1020.4	-4	SE	3	c	47	85	8	5	-	8	4-6	7-8	4000
	Guernsey	1021.6	0	-	0	bc	46	65	7	5	-	-	4-6	4-6	2500
7	Pembroke	1021.3	0	NNE	1	f-	40	95	3	1	-	-	2-3	2-3	4000
	Holyhead	1020.8	-2	W	3	c	45	85	6	8	-	2	7-8	7-8	2500
	Chester (Sealand)	1021.0	+2	-	0	f	33	96	3	5	-	-	7-8	7-8	4000
8	L'pool (Bidston)	1021.3	+2	SE	2	f	33	96	2	7	-	-	4-6	4-6	4000
9	Harrogate	1020.1	+6	W	1	bc	41	65	7	4	-	-	2-3	2-3	4000
10	Spurn Head	1018.7	+2	NWN	4	bc	39	86	5	5	3	-	2-3	+6	1500
	Tynemouth	1019.3	+4	NW	2	c	38	85	6	6	-	-	7-8	7-8	1500
11	Inchkeith	1020.0	0	SW	2	m	37	95	4	4	8	-	4-6	7-8	1500
	Leuchars	1020.9	+6	NW	1	bc	37	85	7	7	3	-	2-3	4-6	4000
12	Renfrew	1021.5	+4	NE	1	f	27	95	2	5	-	-	10	10	4150
	Eskdalemuir	1021.8	+8	-	0	c	32	95	8	5	-	-	9+	9+	4000
13A	Tiree	1021.2	+4	ENE	2	bc	42	75	9	5	-	8	2-3	4-6	1500
13B	Stornoway	1022.2	+4	NNW	2	c	36	85	9	7	-	-	9	9	4000
15	Dalwhinnie	1021.9	+4	NNE	1	c	33	85	8	5	7	-	4-6	7-8	4000
	Aberdeen	1020.0	+7	NW	3	bc	38	75	8	5	-	-	4-6	4-6	4000
	Wick	1020.8	+10	NNW	3	bc	38	75	8	8	6	-	2-3	4-6	2500
16	Lerwick	1018.0	+10	N	3	bc	40	85	8	8	6	-	4-6	4-6	1500
17	Blacksod Point	1019.3	+2	E	1	bc	43	85	8	-	5	-	0	4-6	-
18	Malin Head	1020.6	+6	SW	1	bc	45	95	8	1	-	9	1	2-3	2500
	Aldergrove	1022.1	+6	SE'S	1	bc	35	95	6	5	-	1	2-3	2-3	5700
	Donaghadee	1020.8	+2	-	0	z	43	75	6	5	3	2	2-3	4-6	2500
19	Birr Castle	1021.5	+4	-	0	bc	35	75	6	-	-	1	0	2-3	-
20	Valentia Obsy.†	1018.4	-2	SEE	4	c	49	75	8	8	-	1	4-6	7-8	1500
	Roches Point	1020.2	-4	S	3	c	45	95	8	3	0	-	7-8	7-8	1500

OBSERVATIONS at 18h. G.M.T. 5th January

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)	1022.5	+10	W	2	m	36	85	4	-	-	-	0	0	-	4	*
	Croydon	1022.1	+8	W	2	f	33	95	3	-	-	-	0	0	-	1	*
	S. Farnborough	1022.2	+10	WNW	1	m	31	95	4	-	-	-	0	0	-	4	*
	Winchester	1023.0	+6	W'N	2	b	33	96	6	-	-	1	0	1	-	1	*
	Boscombe Down	1023.1	+10	NW	1	b	35	85	5	-	-	8	0	Tr	-	1	*
	Calshot, S'thmtn	1022.6	+10	NW	1	b	33	85	6	-	-	6	0	1	-	1	0
	Dungeness	*	*	NW	2	z	*	*	5	-	-	-	0	0	-	*	0
	Lympne	1022.3	+16	NWW	3	m	32	95	4	-	-	-	0	0	-	1	*
2	Shoeburyness	1021.9	+6	W'S	1	m	33	95	4	-	-	-	0	0	-	4	*
	Felixstowe	1021.3	+10	WNW	2	z	35	95	5	1	-	-	Tr.	Tr.	4000	0	2
	Gorleston	1020.3	+10	WNW	2	bc	37	85	5	8	-	-	4-6	4-6	2500	0	2
	Cranwell	1022.4	+16	W'N	3	f-	30	95	3	5	3	-	7-8	9	4000	4	*
3	Cardington	1022.4	+10	W'N	2	bc	32	95	5	-	3	-	0	4-6	-	1	*
	Birmingham	1022.8	+6	-	0	f	37	85	3	5	-	-	10	10	2500	7	*
	Upper Heyford	1023.1	+12	NW	2	z	34	96	6	-	-	-	0	0	-	4	*
	Leafield	1022.6	+6	NWN	1	b	31	85	6	-	4	-	0	Tr.	-	4	*
4	Ross-on-Wye	1022.6	+10	SW	2	m	33	96	4	5	-	-	7-8	7-8	4000	4	*
5	Portland Bill	1022.1	+6	N'E	3	bc	38	75	6	4	5	2	4-6	4-6	2500	1	3
	Plymouth	1022.6	+6	NE	1	z	37	85	6	5	-	1	2-3	2-3	4000	1	0
	Falmouth	1022.4	+4	ESE	2	bc	44	65	7	5	-	9	2-3	4-6	4000	0	1
	Scilly (St. Mary's)	1021.1	+6	SE'S	3	c	46	85	8	7	9	8	4-6	7-8	4000	0	1
	Guernsey	1021.6	0	-	0	bc	38	96	6	5	-	-	4-6	4-6	2500	0	2
7	Pembroke	1021.7	+6	NE	1	z	40	96	6	4	-	-	4-6	4-6	4000	0	1
	Holyhead	1022.1	+10	W'S	2	c	41	85	6	5	-	2	1	7-8	4000	1	0
	Chester (Sealand)	1022.1	+8	E'N	1	f	32	95	2	5	-	-	7-8	7-8	2500	5	*
8	L'pool (Bidston)	1022.4	+4	SE'S	2	f	34	95	1	5	-	-	2-3	2-3	2500	5	*
9	Harrogate	1022.4	+10	W	1	c	36	85	7	5	-	-	9+	9+	4000	4	*
10	Spurn Head	1020.3	+2	NWN	4	c	38	95	6	5	7	-	4-6	9+	2500	0	4
	Tynemouth	1021.4	+10	NW	2	bc	34	85	6	2	-	-	4-6	4-6	2500	1	2
11	Inchkeith	1022.9	+12	N	2	bc	37	75	7	5	8	-	2-3	4-6	1500	0	1
	Leuchars	1022.7	+10	W	2	c	32	75	6	5	-	-	7-8	7-8	4000	4	*
12	Renfrew	1023.8	+12	N	2	f	27	95	3	-	-	-	0	0	-	4	*
	Eskdalemuir	1023.3	+14	-	0	c	33	96	8	5	4	-	7-8	9	4000	4	*
13A	Tiree	1022.6	+6	E'N	2	c	38	75	9	5	-	8	1	7-8	4000	0	2
13B	Stornoway	1023.4	+4	-	0	c	38	65	8	4	6	-	4-6	7-8	4000	1	0
15	Dalwhinnie	1024.1	+6	NNE	1	c	28	85	7	5	-	-	9	9	2500	6	*
	Aberdeen	1022.2	+16	WNW	3	bc	36	75	8	5	-	-	4-6	4-6	4000	4	1
	Wick	1021.8	+8	NW	3	bc	35	75	8	8	7	1	2-3	4-6	2500	0	2
16	Lerwick	1020.6	+10	N'E	3	pr	39	85	7	8	-	-	7-8	7-8	1500	1	*
17	Blacksod Point	1021.0	+8	S	1	c	41	85	8	-	-	9	0	9	-	0	3
18	Malin Head	1021.4	+4	S	1	c	37	95	8	1	6	-	4-6	7-8	2500	0	1
	Aldergrove	1022.9	+4	ENE	2	bc	31	95	6	5	-	2	1	4-6	2500	4	*
	Donaghadee	1021.7	+4	W	1	bc	36	95	7	5	3	-	2-3	2-3	2500	0	0
19	Birr Castle	1022.0	+8	ESE	1	c	31	95	6	-	-	2	0	7-8	-	4	*
20	Valentia Obsy.†	1018.8	+6	E	4	c	47	75	8	5	2	-	4-6	10	2500	1	2
	Roches Point	1020.0	0	SE	3	c	47	85	8	3	-	-	7-8	7-8	1500	0	3

PAST 24 HOURS. WEATHER.

District	Stations.	7h.–13h. 5th (37)	13h.–18h. 5th (38)	18h. 5th to 1h. 6th (39)	1h.–7h. 6th (40)
1	London (Kew)	of×bmx	bf×bmx	bf×Fx	bef×bFx
	Croydon	bcmoffbm	bmff×	bff×	cff×bc
	S. Farnborough	bmo×	bmobmo×	bmxbf×	bf×cf×
	Winchester	bmo×	bmo	bmo×	bbcmo×m
	Boscombe Down	bmo×	bmobcmo	bmo×	bmo×eff×
	Calshot, S'thmtn	bxmo	bmo×	bmo×f	bbcef×
	Dungeness	b	b	*	f
	Lympne	bmo	bfbf	bmf×	bbcfbmx
2	Shoeburyness	bxcm	bm	bx	bmx
	Felixstowe	bzo	bzo	bcmo	bcmx
	Gorleston	bcmomo	cbcmomo	bcbcmo	bcx
	Cranwell	bf×bmF	bFcf	cfbf×	bbcf×
3	Cardington	bxmo	bmbcmx	bcxmcxmo	bxf
	Birmingham	bbm	mbcf	cfbcf	bcfcf
	Upper Heyford	b×b	bzo	bmx	bcfcx
	Leafield	b	b	bbcx	bcmx
4	Ross-on-Wye	bmo	bzobc	bcf×FF	f×bmx
5	Portland Bill	bczo	bczo	bcbzo	bbc
	Plymouth	bxf	bmo	bmx	bxc
	Falmouth	bcmo	bc	bc	bccq
	Scilly (St. Mary's)	bcc	c	c	c
	Guernsey	bc	bcw	bcc	co
7	Pembroke	bcff	bcmo	bcmoe	bcmo×
	Holyhead	c, mmo	cmo	bcmowx	bcmo×w
	Chester (Sealand)	fbcmxf	bccf	cf Fe	FFe
8	L'pool (Bidston)	cFbc	bcFe	f Fex	Fex
9	Harrogate	bbc	bcc	cb	bx
10	Spurn Head	bcbc	bcc	cbc	bcx
	Tynemouth	bccbo	cbc	bcc	cbc
11	Inchkeith	cmm	cmbc	bc	bc
	Leuchars	cbcmo	bcb, cmo	cbxmo	bbcx
12	Renfrew	bofff×fg	ff×	offx	oFFx
	Eskdalemuir	bxcx	c	bxbcx	bcx
13A	Tiree	cbcv	bcv		
13B	Stornoway	c	c	c	c
15	Dalwhinnie	cbc	bcco	bc	bc
	Aberdeen	bccbc	bcbc	bcpr	bcprspr
	Wick	bc	bc	bc	bc
16	Lerwick	bcprbc	bcpr	bc	bcc
17	Blacksod Point	bc	bc	c	c
18	Malin Head	cbc	bcc	cbcc	cc
	Aldergrove	FFbcxmo	bcmjcmo	bcx	bcxmo
	Donaghadee	cbcbo	bc	bc	bcx
19	Birr Castle	bc	bcx	bcx	bcx
20	Valentia Obsy.†	c	c	c	c
	Roches Point	c	c	c	c

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,

R, heavy rain. r_o, slight rain. rr, continuous rain.

<, less than (for cloud height).

⊕, solar halo. ●, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

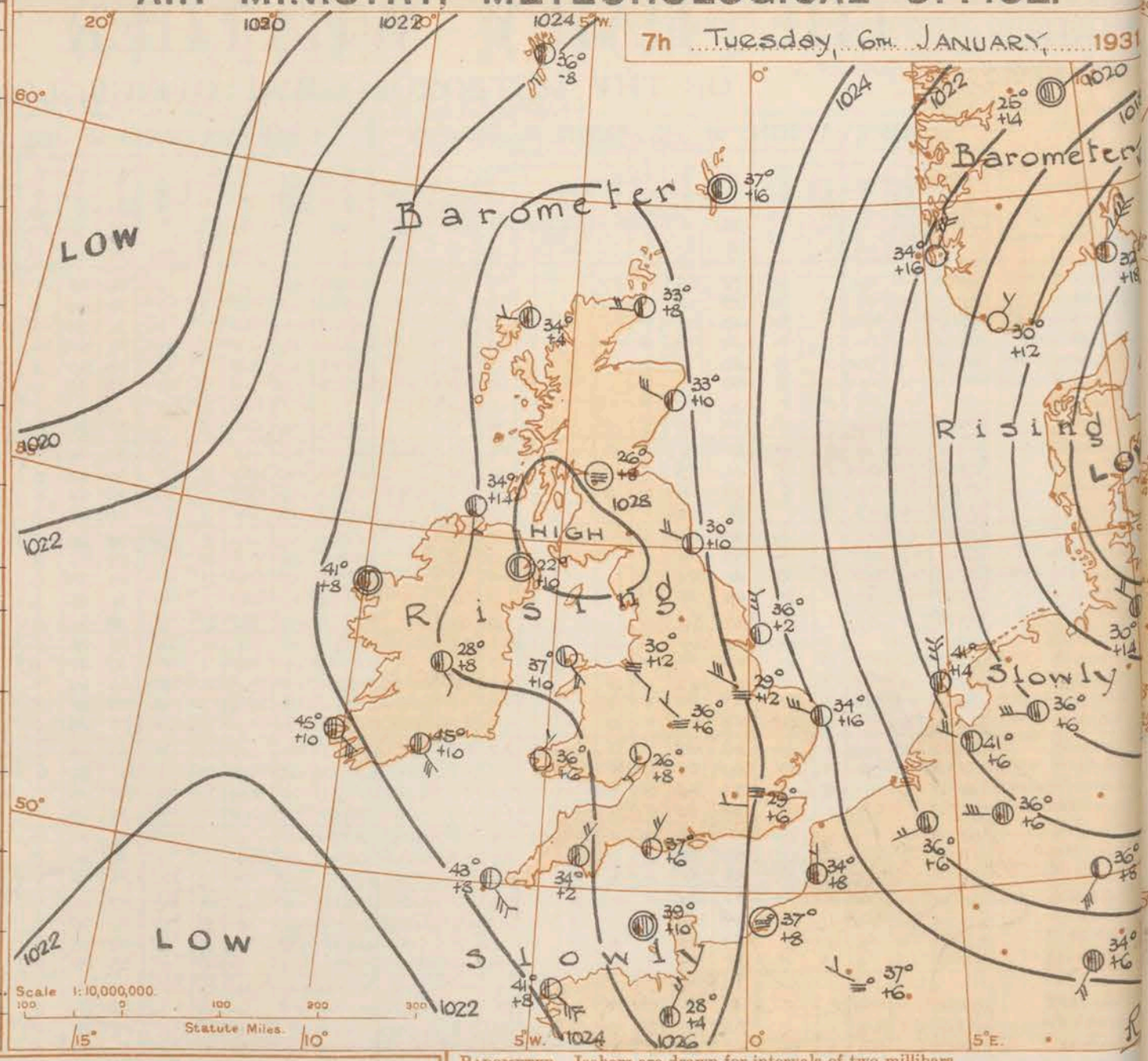
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 5th JANUARY, 1931.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 4th to 9h. 5th	Temperature. Max. 9h.—17h. 5th	Rainfall. Night. 17h. 4th to 9h. 5th	Rainfall. Day. 9h.—17h. 5th	Sunshine. Sunrise to Sunset. 5th
1	Tunbridge W.	ofbc	bm	26	39	-	-	3.5
	Bournemouth	mb	b	28	41	-	-	5.9
	Ventnor ...	xbz	bz	33	45	-	-	6.7
	Southsea ...	bm	bm	31	40	-	-	6.0
	Bognor Regis	xb	b	29	42	-	-	6.0
	Littlehampton	b	bbc	27	44	-	-	7.0
	Worthing ...	b	b	31	42	Trace	-	6.0
	Brighton ...	b	b	32	41	-	-	5.6
	Eastbourne†	b	b	31	41	-	-	7.0
	Hastings† ...	xbcm	bbcm	30	41	0.1	-	6.9
	Folkestone ...	xbm	b	33	43	-	-	6.2
	Dover... ...	mb	mb	35	43	-	-	6.5
	Deal	b	bbc	33	40	-	-	5.5
	Ramsgate ...	bc	bccm	32	37	Trace	Trace	4.2
	Margate ...	bc	bcm	35	40	-	-	2.0
2	Southend ...	bbcf	bcbf	29	39	Trace	-	0.3
	Maldon ...	xmbcc	bm	32	37	-	-	3.1
	Clacton-on-Sea	bcm	bcm	30	35	-	-	6.3
	Dovercourt ...	xbc	bc	31	37	-	-	6.6
	Lowestoft ...	bbc	bccb	31	39	-	-	4.8
	Skegness ...	bxm	bcm	31	41	Trace	Trace	4.5
	Mablethorpe	bmx	bbcom	32	40	1	-	4.1
	Cleethorpes ...	xmbc	bm	31	39	-	-	4.2
3	Leamington S.	bm	bcf	22	37	-	-	2.9
4	Cheltenham†	bxm	bbccf	25	39	-	-	5.7
5	Bath	mb	bm	24	39	-	-	5.7
	Weymouth ...	fb	b	28	48	0.2	-	6.4
	Jersey ...	fbc	bc	35	48	-	-	5.5
	Torquay ...	bmx	bfmbf	30	41	-	-	6.4
	Penzance ...	bcc	bc	33	47	-	-	4.1
	St. Ives ...	c	c	36	47	-	-	4.4
	Bude	xbcb	b	30	46	-	-	5.8
	Ilfracombe ...	b	b	34	43	-	-	6.7
6	Aberystwyth	bcxbc	bc	31	43	-	-	3.5
7	Llandudno ...	bcc	bcc	37	46	-	-	3.4
	Colwyn Bay...	obccb	b	35	47	-	-	2.1
	Rhyl	bcm	mbc	31	44	-	-	1.9
8	Wallasey ...	xff	off	30	45	-	-	0.0
	Southport‖ ...	xffc	of	26	33	-	-	0.0
	Blackpool ...	of	of	25	31	-	-	0.0
	Morecambe ...	mxg	mxffx	24	28	-	-	0.0
9	Ilkley... ...	b	bbcc	27	40	-	-	3.6
10	Berwick-on-T.	c	c	32	40	-	-	0.0
11	Duabar ...	od	bcb	34	40	-	0.3	0.2
12	Douglas ...	bcxbc	bccb	34	44	-	-	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 the wind. Number of feathers indicate Beaufort force. Calm, = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 4/10 clouded. ◑ Sky 4/10 to 8/10 clouded. ◑ Sky 8/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. K Thunderstorm.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 6th Jan., 1931.
1. S.E. England 2. E. England...	Light northwesterly or variable wind: fair, but some fog especially inland and at night; cold or frosty.
3. E. Midlands 4. W. Midlands	Light variable or southeasterly wind: fair, but some fog especially tonight and early tomorrow: cold or frosty.
5. S.W. England 6. South Wales 7. North Wales	Light or moderate southeast or east wind: fair; perhaps local fog inland; normal temperature in extreme Southwest, colder elsewhere with night frost.
8. N.W. England 9. N. Midlands	As 3-4.
10. N.E. England 11. S.E. Scotland	As 1-2.
12. S.W. Scotland & Isle of Man	As 3-4.
13. A. W. Scotld. B. N.W. Scotland.	Wind light variable to southwesterly, perhaps freshening; mainly fair; cold at first, perhaps milder later.
14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Light variable wind; fair, but perhaps local fog, chiefly inland; cold or frosty.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland	Light variable wind; fair, but perhaps local fog; cold or frosty.
20. S.W. Ireland	As 5.

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

GENERAL INFERENCE.

An anticyclone covers the British Isles and will maintain cold or frosty weather generally except in the extreme West and Southwest. Fog is probable, especially inland and at night.

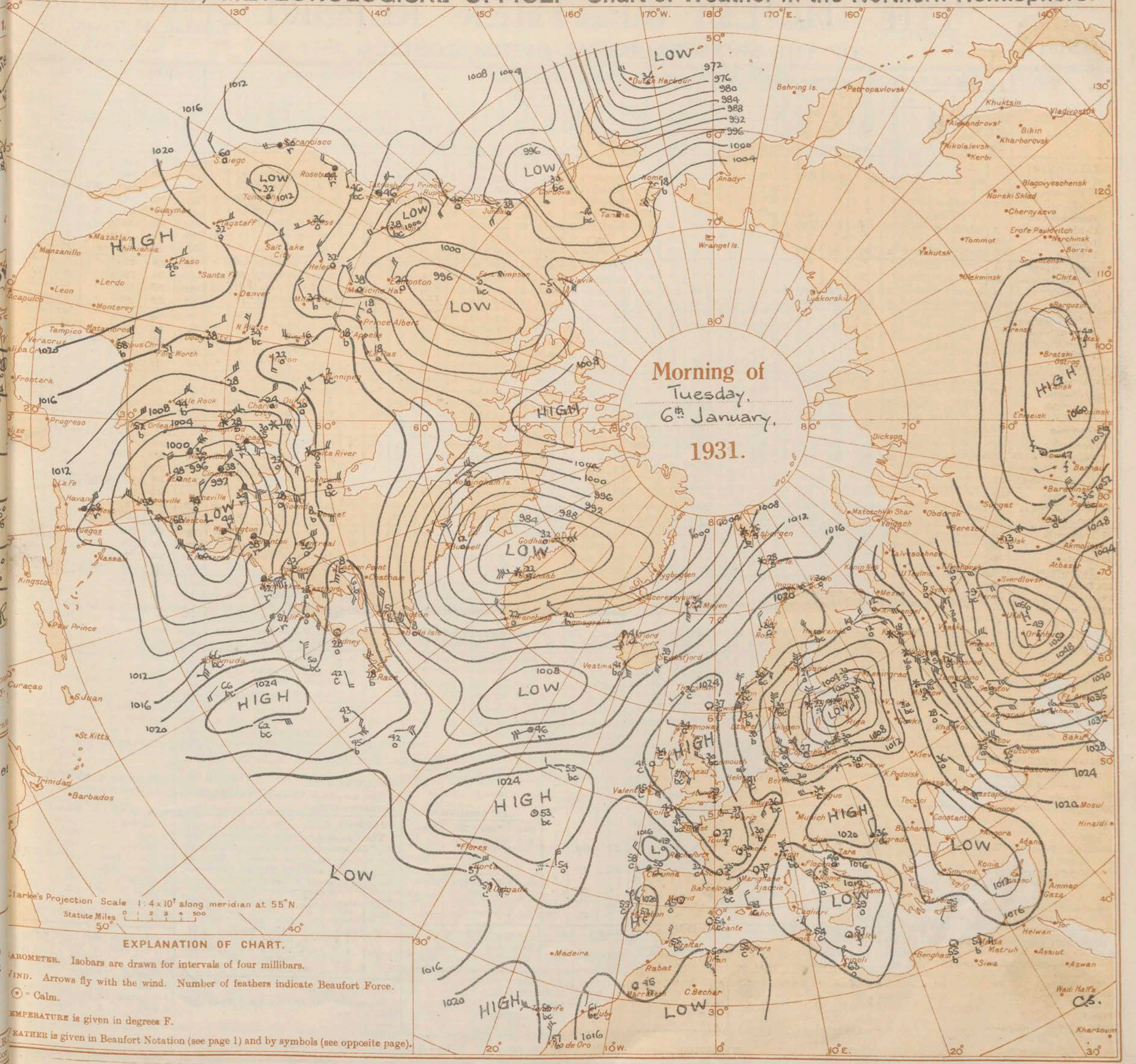
FURTHER OUTLOOK.

Perhaps milder and less settled in the extreme Northwest; mainly quiet and cold in most other districts, with local fog.

Forecasts issued at 1010 G.M.T.

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

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



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 6th January 1931.

No. 25.247.

OBSERVATIONS at 1 hr. G.M.T. 6th January

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	1024.3	+6	W	2	cf-	30	95	3	4	-	-	7-8	7-8	4000
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, S'thmtn	8	1024.3	+6	N'W	3	bf	34	95	3	-	-	-	0	0	-
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1023.1	+4	NNW	2	bf	32	95	3	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	55	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1021.9	+4	NW'W	2	bc	35	95	7	-	6	-	0	2-3	-
	Cranwell ...	240	1024.5	+6	NW'W	3	bf	31	85	3	-	-	-	0	0	-
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1023.8	+6	N'W	2	b	36	85	6	-	-	-	0	0	-
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1024.2	+2	SE'E	4	bc	46	65	7	1	3	-	2-3	4-6	4000
	Scilly (St. Mary's)	163	1023.1	+10	SE	4	c	46	85	8	5	-	-	9+	9+	4000
	Guernsey ...	173	1023.5	+4	-	0	c	38	85	7	5	-	-	7-8	7-8	2500
6	Pembroke ...	142	1024.2	+8	NE	3	bc	38	95	6	4	4	-	2-3	4-6	4000
7	Holyhead ...	26	1024.3	+8	-	0	bc	35	95	6	5	-	6	Tr.	4-6	4000
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	67	1022.9	+4	NNW	4	bc	35	95	6	4	3	-	4-6	4-6	4000
	Tynemouth ...	29	1024.2	+6	NW	2	c	33	85	6	4	-	-	7.8	7.8	4000
11	Inchkeith ...	190	1025.5	+6	W	2	bc	33	85	8	-	7	-	0	4-6	-
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1024.7	+4	-	0	c	36	85	8	-	2	6	0	9+	-
15	Dalwhinnie ...	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1025.0	+6	WNW	2	bc	31	95	8	3	6	-	2-3	2-3	2500
16	Lerwick ...	54	1023.8	+10	N'W	1	bc	39	75	8	8	-	-	4-6	4-6	2500
17	Blacksod Point	10	1022.8	+4	-	0	c	40	95	7	-	5	-	0	7-8	-
18	Malin Head ...	51	1023.7	+8	S	1	c	36	95	8	1	-	6	1	9+	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1020.6	+26	SSW	1	c	45	95	9	5	-	-	9	9	4000
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 6th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
London (Kew)	1026.2	+6	-	0	bF	30	95	1	-	8	-	0	Tr.	-	4	*
Croydon	1026.0	+6	W	1	bcf	29	95	3	4	-	-	4-6	4-6	4000	4	*
S. Farnborough	1026.3	+10	NW	1	cf	29	95	3	5	3	-	4-6	9	5700	4	*
Winchester	1026.4	+4	-	0	m	26	95	4	5	-	-	4-6	4-6	4000	4	*
Boscombe Down	1026.6	+4	-	0	cf	28	95	3	5	-	-	9+	9+	2500	4	*
Calshot, S'thmtn	1026.8	+10	NW'W	2	cf	30	95	3	5	3	-	7-8	10	5700	4	1
Dungeness	*	*	NNW	1	bf	*	*	1	-	-	*	0	0	-	*	0
Lympne	1025.1	+10	NW'N	3	m	29	95	4	-	-	-	0	0	-	4	*
Shoeburyness	1025.7	+2	NNW	1	m	30	95	4	7	4	-	1	2-3	1500	4	*
Felixstowe	1025.1	+8	NNW	3	m.	32	85	5	5	-	-	2-3	2-3	4000	4	2
Gorleston	1024.1	+16	WNW	3	c	34	95	6	9	-	-	7-8	7-8	1500	0	2
Cranwell	1026.5	+12	WNW	3	bcf	29	85	3	5	3	1	1	2-3	5700	4	*
Cardington	1026.3	+4	NW'W	2	bf	26	95	3	-	-	-	0	0	-	4	*
Birmingham	1026.8	+6	NW	1	cf	36	95	3	-	3	-	0	7-8	-	8	*
Upper Heyford	1026.8	+10	NNW	2	bcf	32	95	3	-	3	-	0	4-6	-	4	*
Leafield	1026.1	+6	NNW	1	m	30	95	4	-	3	-	0	7-8	-	4	*
Ross-on-Wye	1026.8	+8	(SW)	(1)	m	26	95	4	5	-	-	1	1	2500	4	*
Portland Bill	1025.4	+6	NNE	2	bc	37	85	7	4	4	-	2-3	2-3	2500	1	3
Plymouth	1025.8	+2	NE	2	c	34	95	7	-	-	2	0	7-8	-	4	0
Falmouth	1025.1	+6	ENE	5	c	43	95	7	8	-	-	10	10	4000	0	2
Scilly (St. Mary's)	1024.4	+8	SE'S	4	c	44	85	7	5	7	8	2-3	7-8	4000	0	2
Guernsey	1025.2	+10	-	0	0	39	85	7	5	-	-	10	10	2500	0	2
Pembroke	1025.5	+6	NE	1	m.	38	95	6	4	-	-	Tr.	Tr.	4000	0	1
Holyhead	1026.1	+10	SE	2	bc	37	95	5	5	-	1	2-3	4-6	4000	1	0
Chester (Sealand)	1026.6	+12	SE'E	1	F	30	95	0	5	-	-	10	10	<150	5	*
L'pool (Bidston)	1027.2	+8	ESE	1	F	29	95	1	5	-	-	10	10	<150	5	*
Harrogate	1027.1	+6	WSW	1	b	28	75	8	1	-	1	Tr.	Tr.	4000	4	*
Spurn Head	1024.1	+2	NNW	4	bc	36	95	6	1	6	-	2-3	2-3	4000	4	4
Tynemouth	1026.7	+10	WNW	2	bc	30	75	6	2	-	-	4-6	4-6	2500	4	2
Inchkeith	1027.0	+8	WSW	2	bc	31	95	6	-	4	-	0	2-3	-	0	0
Leuchars	1027.4	+18	SW	2	bc	27	85	8	5	-	8	Tr.	2-3	4000	4	*
Renfrew	1027.0	+8	-	0	F	26	95	1	5	-	-	10	10	<150	4	*
Eskdalemuir	1028.7	+14	-	0	bc	20	85	8	-	-	6	0	4-6	-	4	*
Tiree	1026.3	+10	SE	2	c	33	95	7	-	9	7	0	10	-	0	2
Stornoway	1026.2	+4	W	1	c	34	85	8	2	2	2	1	9	4000	0	0
Dalwhinnie	1028.2	+6	SSE	1	bc	16	95	8	-	3	-	0	2-3	-	6	*
Aberdeen	1026.5	+10	WNW	3	bc	33	95	7	8	-	-	4-6	4-6	2500	4	1
Wick	1026.2	+8	W	2	bc	33	95	8	8	6	2	2-3	4-6	2500	5	2
Lerwick	1024.8	+16	-	0	c	37	75	8	5	6	-	4-6	9	2500	0	*
Blacksod Point	1025.0	+8	-	0	c	41	86	8	-	3	-	0	10	-	0	3
Malin Head	1025.6	+14	S	1	c	34	95	8	4	-	6	2-3	9	4000	4	1
Aldergrove	1028.0	+10	-	0	bc	22	95	6	5	-	8	Tr.	4-6	2500	4	*
Donaghadee	1026.0	+6	SW	2	c	41	85	7	5	-	-	7-8	7-8	2500	0	0
Birr Castle	1026.0	+8	SE	1	c	28	95	7	-	-	9	0	10	-	4	*
Valentia Obsy.†	1023.6	+10	ESE	3	c	45	85	8	5	7	-	4-6	7-8	4000	1	2
Roches Point	1024.7	+10	SE	3	c	45	85	8	3	-	-	7-8	7-8	1500	0	3

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 5th Hrs. (36)
London (Kew)	39	28	19	0.1	Tr.	4.0
Croydon	40	29	26	Tr.	-	4.3
S. Farnborough	41	24	16	0.1	Tr.	6.9
Winchester	42	21	17	Tr.	-	5.7
Boscombe Down	41	23	21	Tr.	Tr.	*
Calshot, S'thmtn	42	28	21	-	-	5.8
Dungeness	39	26	*	-	-	*
Lympne	37	29	21	Tr.	Tr.	3.5
Shoeburyness	35	28	23	-	-	1.3
Felixstowe	37	31	28	-	-	6.4
Gorleston	40	33	31	-	-	2.9
Cranwell	32	29	26	-	-	2.5
Cardington	39	26	21	-	-	4.8
Birmingham	40	32	20	-	-	4.7
Upper Heyford	41	29	23	0.2	-	*
Leafield	41	30	17	-	-	6.1
Ross-on-Wye	43	26	14	-	-	6.6
Portland Bill	47	35	*	-	-	*
Plymouth	47	33	27	Tr.	-	5.7
Falmouth	48	40	*	-	-	4.1
Scilly (St. Mary's)	48	43	*	-	-	1.7
Guernsey	46	37	27	-	-	6.1
Pembroke	43	34	*	-	-	2.4
Holyhead	47	35	26	-	-	2.0
Chester (Sealand)	33	29	27	-	Tr.	1.2
L'pool (Bidston)	35	28	28	0.1	0.1	1.3
Harrogate	41	28	21	-	-	4.6
Spurn Head	39	34	*	-	-	3.7
Tynemouth	38	30	25	0.2	-	*
Inchkeith	38	31	30	-	-	0.0
Leuchars	39	25	21	-	-	2.6
Renfrew	29	22	16	-	Tr.	0.0
Eskdalemuir	35	19	12	0.1	-	1.5
Tiree	43	32	22	-	-	4.5
Stornoway	38	31	*	-	Tr.	0.0
Dalwhinnie	33	14	*	-	-	1.6
Aberdeen	38	32	27	-	0.3	3.7
Wick	40	31	*	-	-	*
Lerwick	40	35	*	1	-	2.7
Blacksod Point	43	39	*	-	Tr.	*
Malin Head	46	33	*	-	-	4.6
Aldergrove	38	21	16	0.2	Tr.	1.3
Donaghadee	46	31	*	-	-	*
Birr Castle	37	26	21	-	-	3.7
Valentia Obsy.†	49	45	43	-	-	0.2
Roches Point	47	45	*	-	-	*

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather. Morning.	Weather. Afternoon.	Weather. Night.	Temperature. Day Max. °F.	Temperature. Night Min. °F.	Temperature. Min. on Grass °F.	Rainfall. Day. mm.	Rainfall. Night. mm.	Sunshine to Sunset, hrs.	Humidity. 15h. G.M.T. %	Humidity. 9h. G.M.T. %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday.		To-day.	
Kew	18	ofxbmx	bfxbmx	bFxFx	39	28	19	0.1	Tr.	4.0	*	*	1
Croydon	217	bcmofbm	bmffx	bffxbc	40	29	26	Tr.	-	4.3	*	*	1
Greenwich (Royal Observatory) ...	149	Fbfx	bfx	bfcbFx	36	26	14	Tr.	0.3	0.0	87	88	1
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	39	28	24	-	-	0.3	87	91	*
Regents Pk. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	xfcf	cfb	*	36	31	19	-	-	*	*	93	*
Kensington Palace	80	cfbcf	bcfbf	*	39	29	18	-	-	*	At 18h. 88	90	*
Hampstead Observatory	450	oxfbc	bmx	*	37	28	17	Tr.	0.1	2.5	*	86	*

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 5th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 6th January. 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	1022.9	WNW	1	m	43	1025.3	WNW	1	m	37	45	36	-	-
Brussels	1020.0	WSW	2	ir.	39	1023.0	WSW	2	c	36	39	34	Tr.	-
Berlin	1009.0	WSW	3	bc	34	1014.7	W	3	bc	30	39	28	1	-
Zürich						1024.3	S	1	f	28		25		-
Rome	1011.0	SSW	2	cu	55	1013.4	NW	3	c	?	64	?	?	?

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 6th

South Kensington. Max.	Time.	Min.	Time.
2.3	21h. 5m.	1.0	5h. 6m.

Kew Observatory. Max.	Time.	Min.	Time.
1.0	23h. 5m.	0.3	7h. 5m.

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 7th January 1931.

No. 25,248.

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

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)	1028.4	-2	NW	1	F-	33	86	1	–	–	–	0	0	–
	Croydon	1028.1	+2	–	0	f	32	95	2	–	–	–	0	0	–
	S. Farnborough	1028.0	+2	WNW	1	m	36	85	4	–	–	–	0	0	–
	Winchester	1028.3	-2	N	2	z	37	85	5	–	7	–	0	2.3	–
	Boscombe Down	1028.5	-2	NE	2	f	33	95	3	–	3	–	0	2.3	–
	Calshot, S'thmtn	1028.0	0	NW	2	z	39	75	5	–	–	–	0	0	–
	Dungeness	.	.	NNW	3	m	.	.	4	–	–	–	0	0	–
	Lympne	1026.6	-4	NW	4	z	38	85	5	–	–	–	0	0	–
2	Shoeburyness	1027.6	+10	NNW	2	b	38	85	6	–	–	–	0	0	–
	Felixstowe	1027.5	+4	NWN	2	bc	38	85	6	5	–	–	4.6	4.6	5700
	Gorleston	1026.2	0	NNW	4	ph(r)	40	95	6	6	–	–	4.6	4.6	1500
	Cranwell	1028.2	-2	NWW	3	m	35	75	4	–	–	1	0	Tr.	–
3	Cardington	1028.3	+4	NW	1	m	37	75	4	–	–	–	0	0	–
	Birmingham	1029.0	0	–	0	F	31	95	0	5	–	–	10	10	<150
	Upper Heyford	1029.3	+6	N	2	f	36	75	3	–	–	–	0	0	–
	Leafield	1028.4	+6	NEN	1	m	35	85	4	–	4	–	0	Tr.	–
4	Ross-on-Wye	1029.0	+4	–	0	m	33	75	4	5	–	–	9+	9+	800
5	Portland Bill	1027.5	+6	NE	2	bc	43	65	7	4	–	–	4.6	4.6	2500
	Plymouth	1027.4	-2	E	2	bc [red: bc]	43	75	8	–	–	1	0	2.3 [red]	–
	Falmouth	1027.4	+8	EN	5	bc	46	75	8	8	–	1	4.6	4.6	4000
	Scilly (St. Mary's)	1026.4	+6	SSE	4	c	46	75	7	7	–	2	4.6	7.8	4000
	Guernsey	1026.6	0	NE	1	c	45	65	8	5	–	–	7-8	7-8	2500
6	Pembroke	1027.8	+4	NE	2	bc	40	95	6	5	9	9	2.3	4.6	2500
7	Holyhead	1028.4	+2	SES	1	clr	40	95	6	5	–	8	9+	9+	4000
	Chester (Sealand)	1029.0	+4	SE	2	F	29	95	1	5	–	–	10	10	<150
8	L'pool (Bidston)	1029.2	+6	–	0	F	29	95	1	5	–	–	10	10	1500
9	Harrogate	1028.3	+6	NW	1	b	38	65	7	–	–	1	0	Tr.	–
10	Spurn Head	1027.1	+2	NNW	4	c	38	95	6	8	3	–	4.6	9+	2600
	Tynemouth	1029.2	+6	WNW	2	bc	37	55	6	2	–	–	2.3	2.3	2500
11	Inchkeith	1029.4	+8	WSW	2	bc	35	85	6	–	1	–	0	2.3	–
	Leuchars	1029.2	+6	WSW	2	bc	34	75	8	4	3	1	Tr.	4.6	5700
12	Renfrew	1029.8	+6	–	0	F	25	95	0	5	–	–	10	10	<150
	Eskdalemuir	1030.0	+6	–	0	b	32	75	9	–	–	1	0	1	–
13A	Tiree	1027.9	0	SE	3	c	38	95	7	–	9	9	0	7-8	–
13B	Stornoway	1027.6	0	SW	2	c	37	86	9	7	1	–	7-8	9+	4000
15	Dalwhinnie [red: 1029.9]	1030.2	+8	SSW	1	bc	29	95	8	5	5	–	2.3	4.6	5700
	Aberdeen	1028.7	+4	NNW	2	bc	36	85	6	5	–	1	2.3	2.3	4000
	Wick	1028.3	+6	W	2	bc	34	95	8	7	1	–	2.3	4.6	2600
16	Lerwick	1027.7	+4	W	1	c	39	65	8	5	6	–	4.6	7.8	2600
17	Blacksod Point	1026.9	-8	–	0	c	45	85	8	–	3	–	0	7.8	–
18	Malin Head	1027.3	+4	S	2	bc	39	96	8	7	–	9	1	4.6	4000
	Aldergrove	1029.7	+6	–	0	m	30	95	4	–	–	6	0	4.6	–
	Donaghadee	1028.3	+4	SSE	2	c	42	75	7	5	–	–	7-8	7-8	2500
19	Birr Castle	1028.1	+6	SE	1	c	33	95	6	–	3	–	0	9+	–
20	Valentia Obsy.†	1026.3	+4	E	3	c	48	75	8	7	3	1	4.6	7.8	5700
	Roches Point	1027.4	+6	SE	3	c	47	85	8	5	–	–	9+	9+	1500

OBSERVATIONS at 18h. G.M.T. 6th January

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)	1029.5	+12	NW	1	F	34	85	1	–	–	–	0	0	–	4	*
Croydon	1029.1	+10	NNW	1	F	30	95	0	–	–	–	0	0	–	4	*
S. Farnborough	1029.6	+10	NW	1	f	29	95	3	–	–	–	0	0	–	4	*
Winchester	1029.9	+12	N	3	z	32	85	5	–	–	–	0	0	–	4	*
Boscombe Down	1030.0	+6	N	3	F	25	95	1	5	–	–	10	10	<150	4	*
Calshot, S'thmtn	1029.1	+6	NNW	3	m	33	85	4	–	–	–	0	0	–	0	0
Dungeness	.	.	NW	3	m	.	.	4	–	1	–	0	1	–	.	1
Lympne	1028.1	+10	NW	4	m	34	95	4	–	–	–	0	0	–	1	*
Shoeburyness	1028.9	+14	NW	2	b	33	95	6	–	–	–	0	0	–	0	*
Felixstowe	1028.9	+12	NW	1	z	34	95	5	–	–	–	0	0	–	0	2
Gorleston	1028.2	+6	NWW	2	bc	37	85	6	9	–	–	4.6	4.6	1500	1	2
Cranwell	1029.8	+10	NW	3	m	31	85	4	–	–	–	0	0	–	4	*
Cardington	1029.6	+6	NNW	2	z	29	95	5	–	–	–	0	0	–	1	*
Birmingham	1030.9	+6	NW	1	F	27	95	0	5	–	–	10	10	<150	8	*
Upper Heyford	1030.5	+10	N	2	f	30	85	3	–	–	–	0	0	–	4	*
Leafield	1030.2	+10	NW	1	b	26	95	5	–	4	–	0	Tr.	–	4	*
Ross-on-Wye	1030.1 [red: 3]	+6	ENE	1	f	31	95	2	5	–	–	10	10	220	1	*
Portland Bill	1028.4	+4	NEN	3	m	39	65	4	5	–	–	4.6	4.6	800	1	3
Plymouth	1029.0	+2	NE	1	z	37	85	6	5	–	–	2.3	2.3	4000	1	0
Falmouth	1028.7	+6	NEE	3	bc	44	65	7	3	–	–	4.6	4.6	4000	0	2
Scilly (St. Mary's)	1028.1	+6	ESE	2	c	44	85	7	2	–	–	7-8	7-8	4000	0	1
Guernsey	1027.5	+8	NNE	3	c	43	65	8	5	–	–	7-8	7-8	2500	0	3
Pembroke	1029.3	+10	ENE	2	bc	39	95	6	5	9	9	2.3	4.6	2500	0	1
Holyhead	1029.9	+8	SE	2	c	40	95	5	5	–	–	9+	9+	2600	1	1
Chester (Sealand)	1030.7	+14	SES	1	F	26	95	0	5	–	–	10	10	<150	5	*
L'pool (Bidston)	1031.2	+6	E'S	2	F	28	95	1	5	–	–	10	10	<150	5	*
Harrogate	1030.3	+10	–	0	b	33	86	7	–	–	–	0	0	–	4	*
Spurn Head	1028.3	+6	NNW	4	bc	37	95	6	5	–	–	4-6	4-6	1500	0	4
Tynemouth	1030.9	+8	WNW	2	bc	34	85	6	5	–	–	4.6	4.6	1500	4	2
Inchkeith	1030.7	+10	WSW	2	z	34	85	6	5	–	–	2.3	2.3	1500	4	0
Leuchars	1030.7	+14	–	0	b	27	85	7	–	3	1	0	1	–	4	*
Renfrew	1031.1	+10	–	0	f-	24	95	2	5	–	–	10	10	<150	4	*
Eskdalemuir	1032.2	+14	–	0	b	23	85	9	–	–	1	0	Tr.	–	4	*
Tiree [red]	1029.6	+8	SE'S	3	bc	39	95	7	–	7	9	0	4-6	–	0	3
Stornoway	1028.1	+10	–	0	c	39	95	8	4	–	–	10	10	4000	1	1
Dalwhinnie	1032.4 [red correction]	+8	WSW	1	bc	18	95	8	5	4	.	2.3	4.6	4000	5	*
Aberdeen	1030.5	+8	W	1	b	30	96	5	–	–	1	0	Tr.	–	4	1
Wick	1029.0	+4	WSW	2	c	32	95	8	5	1	8	2.3	7.8	2500	5	2
Lerwick	1028.3	+6	W	1	bc	38	75	8	5	–	–	4.6	4.6	2500	0	*
Blacksod Point	1029.2	+10	–	0	b	38	95	7	–	3	–	0	Tr.	–	0	3
Malin Head	1028.9	+8	SSE	1	c	36	95	8	7	3	–	2.3	9	4000	4	2
Aldergrove	1030.9	+10	–	0	bc	28	96	5	5	–	8	2.3	4.6	2500	4	*
Donaghadee	1029.7	+8	SE	2	c	42	75	7	5	–	–	7-8	7-8	2500	0	1
Birr Castle	1029.4	+8	E	1	c	32	95	7	–	3	–	0	7-8	–	4	*
Valentia Obsy.†	1028.4	+12	E'S	3	bc	43	85	8	5	3	–	2.3	4.6	4000	1	2
Roches Point	1028.9	+10	ESE	3	c	46	85	8	5	–	–	9	9	1500	0	4

PAST 24 HOURS. — WEATHER.

Stations	7h.–13h. 6th (37)	13h.–18h. 6th (38)	18h. 6th to 1h. 7th (39)	1h.–7h. 7th (40)
London (Kew)	ofxbfx	bfx	bfx	bfxcmx
Croydon	bxff	bffFf	bFffx	bcffx
S. Farnborough	cfbfx	bmf	bfx	bfxcfx
Winchester	bmxbcm	bcm bm	bmox	bmox
Boscombe Down	cffxbmoff	offoff	oFF	oFF bffx
Calshot, S'thmtn	bcfmxbm	bmox	bmx	bmx
Dungeness	b	b	.	b
Lympne	bmxmo	bmom	bmwx	cfbmx
Shoeburyness	bx bmo	bmo	bmo	bcm bm
Felixstowe	bmxbzbc	ocz bz bm	bmxbcmx	bcmxbmx
Gorleston	cxbc	bccopo	bcx	bcxorc
Cranwell	bfxbm	bmo mx	bmcfx	cfx
Cardington	bxf bm	bmf mo	bm bfx	bfxcfx
Birmingham	FF	FF	Fbfm	bmf
Upper Heyford	bcxbfe	bf fx	bx	boffx
Leafield	Fb	mb	bx	bcffx
Ross-on-Wye	cfbfcm	o.mo	foFx	FFx
Portland Bill	bc	bcm	bmo	bbcmf
Plymouth	cx bzo	bmo	bmox	bxmo
Falmouth	cbcq	bcq	bc	bc
Scilly (St. Mary's)	c	c	cbcc	cbc
Guernsey	ocbcc	cbcc	co	o
Pembroke	bcmo	bcmo	bcmo	bcmox
Holyhead	bcmcmir	cmo	cbcbw	bbcmox
Chester (Sealand)	FFex	FFex	FFex	Febfx
L'pool (Bidston)	oFFe	Fffx	bF	iFb
Harrogate	b	b	b	bbccx
Spurn Head	bcc	cbc	bcc	cpdo
Tynemouth	bc	bcmo	bcmbc	bc
Inchkeith	bcm.m	bcmomo	bcmm	bccmm
Leuchars	bcxbc	bcb	bbcx	bccxmo
Renfrew	FFx	FFx	offx	offx
Eskdalemuir	bcxvbxv	bxv	bx	bcxcx
Tiree	c	bcc [red]	bc [red]	c [red]
Stornoway	c	c	bc	bcc
Dalwhinnie	bc	bcc	c [red]	c [red]
Aberdeen	bc	bcbmo	bmo	bbcmox
Wick	bc	bcc	bcw	bc
Lerwick	c	cbc	bc	bcc
Blacksod Point	c	bc	b	bx
Malin Head	⊕cbc	bcc	cbcb	b
Aldergrove	bcmoFcm	bcmoF	bcxmoiy	bcxmcxm
Donaghadee	cprobc	bcc	c	c
Birr Castle	c	c	cbcx	bcx
Valentia Obsy.†	c	cbc	bccb	bbcw
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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{20}$ 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.

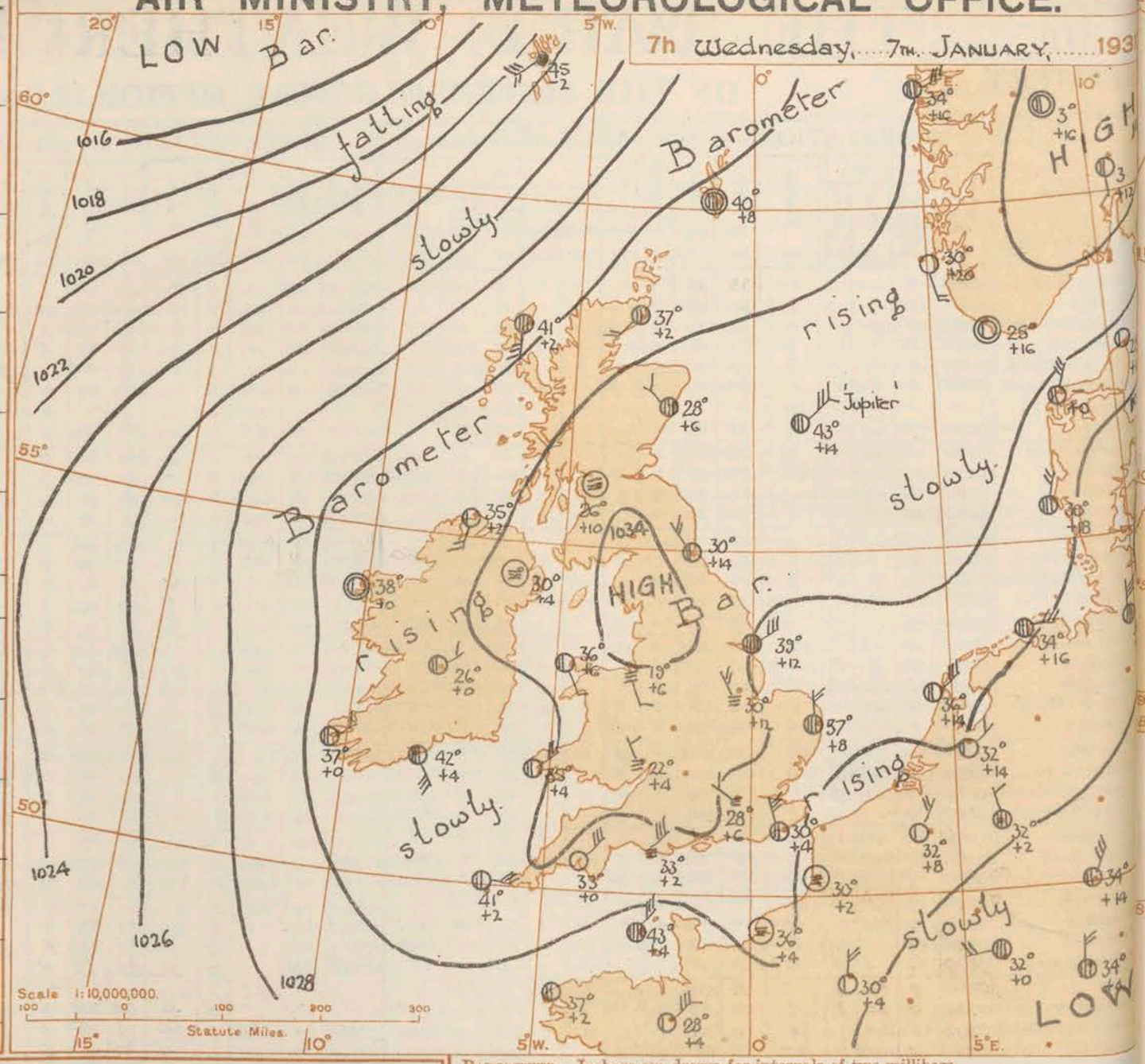
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 6th JANUARY, 1931.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 5th to 9h. 6th	Temperature. Max. 9h.—17h. 6th	Rainfall. Night. 17h. 5th to 9h. 6th	Rainfall. Day. 9h.—17h. 6th	Sunshine. Sunrise to Sunset. 6th
1	Tunbridge W.	bfb	bmb	23	38	-	-	5.6
	Bournemouth	cb	bf	25	38	-	-	4.6
	Ventnor ...	xcbz	bz	33	43	-	-	4.9
	Southsea ...	cf	bm	29	40	-	-	3.6
	Bognor Regis	xbcb	b	30	41	-	-	5.5
	Littlehampton	bc	bcc	28	41	Tr.	-	5.7
	Worthing ...	b	bcc	32	41	Tr.	-	5.0
	Brighton ...	bc	c	31	39	-	-	5.6
	Eastbourne†	b	bm	32	40	-	-	5.7
	Hastings† ...	xmb	bm	33	41	0.2	-	6.7
	Folkestone ...	xbm	bm	32	41	-	-	5.6
	Dover... ...	mb	mb	32	40	-	-	6.4
	Deal	xbcb	bbc	31	38	-	-	4.7
	Ramsgate ...	bc	bc	32	39	Tr.	Tr.	4.9
	Margate ...	bc	bc	36	43	-	-	4.1
2	Southend ...	bfm	bmf	29	39	Tr.	-	5.6
	Maldon ...	xmb	b	30	38	-	-	6.0
	Clacton-on-Sea	bcz	bczm	31	41	-	-	6.2
	Dovercourt ...	xbc	bcm	31	40	-	-	5.2
	Lowestoft ...	bmbc	opbcc	32	39	Tr.	0.6	5.8
	Skegness ...	mob	mob	31	39	Tr.	Tr.	5.6
	Mablethorpe	bbcmx	bbcmx	30	38	-	-	4.5
	Cleethorpes ...	xmb	bcbm	30	39	-	-	2.3
3	Leamington S.	of	of	25	28	-	-	0.0
4	Cheltenham†	ofxfo	fof	27	33	-	-	0.0
5	Bath	fc	fog	25	33	-	-	0.0
	Weymouth ...	mcb	b	27	42	Tr.	-	4.6
	Jersey ...	fbc	bc	33	47	-	-	5.0
	Torquay ...	bcmbc	fbmbm	29	42	-	-	4.4
	Penzance ...	cmc	c	39	47	-	-	0.0
	St. Ives ...	c	c	39	47	-	-	0.0
	Bude	xbcb	bbcb	31	46	-	-	5.0
	Ilfracombe ...	b	b	32	43	-	-	6.3
6	Aberystwyth	bcbx	bc	29	41	-	-	5.2
7	Llandudno ...	cbc	bcc	32	41	-	-	2.0
	Colwyn Bay...	fbc	bbcc	31	40	-	-	4.3
	Rhyl	bxfb	bmo	28	41	-	-	4.2
8	Wallasey ...	Ffof	F	28	32	-	-	0.0
	Southport‖ ...	xffc	of	26	28	-	-	0.0
	Blackpool ...	of	cm	23	35	-	-	1.6
	Morecambe ...	xmcbx	bcx	21	34	-	-	2.6
9	Ilkley... ...	bc	bc	22	37	-	-	2.7
10	Berwick-on-T.	bc	bc	27	40	-	-	5.7
11	Dunbar ...	bcmo	bmo	29	36	-	-	5.1
12	Douglas ...	xcbx	cbcmo	33	40	-	-	1.2

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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 7th Jan, 1931.

Districts.	Forecasts
1. S.E. England 2. E. England...	Wind variable or between north and east, light; fair, but some fog or mist especially inland and at night; cold, or frosty.
3. E. Midlands 4. W. Midlands	Wind variable, light; fair; but some fog; cold and mainly frosty.
5. S.W. England	Wind easterly, light or moderate; fair; local fog night and morning; cold, night frost.
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	As 3 - 4.
13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands.	Wind between south and west, light or moderate, perhaps freshening later; fair; somewhat milder but still cold; night frost.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind variable or between south and east, light; fair; local fog especially night and morning; cold, night frost

GENERAL INFERENCE.

A large anticyclone covers the British Isles. Weather will remain quiet, cold or frosty, and mainly fair in most districts, with some fog.

FURTHER OUTLOOK.

Similar.

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. Pa. 2438/2174. Wt. 28. D.E026. Gp. 908.

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 7th January, 1931.

No. 25,248.

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

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	1031.0	0	W	1	bF-	28	95	1	-	-	-	0	0	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, S'thmtn	8	1030.7	0	N'W	4	mo	33	85	5	-	-	1	0	1	-
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1029.6	0	N'W	4	m	31	95	4	-	3	-	0	Tr.	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	55	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	1030.0	+2	NW'W	3	bc	36	95	7	2	-	-	4-6	4-6	4000
	Cranwell	240	1032.0	+4	NW	3	cf	30	95	3	5	-	-	7-8	7-8	4000
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1029.9	0	NE	4	b	35	76	5	-	-	-	0	0	-
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	1031.2	+2	N	3	bc	37	85	7	5	-	-	4-6	4-6	4000
	Scilly (St. Mary's)	163	1030.2	+2	E'S	3	c	43	85	7	2	-	-	7-8	7-8	4000
	Guernsey	173	1028.9	0	NE	1	0	42	65	7	5	-	-	10	10	2500
6	Pembroke	142	1030.8	+4	ENE	2	mo	36	95	6	4	4	-	2-3	4-6	2500
7	Holyhead	26	1031.7	+6	SE	2	b	36	85	6	-	-	-	0	0	-
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	67	1030.4	+2	NNW	3	c	36	95	6	5	3	-	2-3	9+	2500
	Tynemouth	29	1032.8	+6	NW	2	bc	31	75	7	2	-	-	4-6	4-6	2500
11	Inchkeith	190	1032.1	+6	WSW	2	m	31	95	4	5	-	1	4-6	4-6	800
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1029.5	+4	-	0	bc	36	95	7	1	-	-	2-3	2-3	4000
15	Dalwhinnie	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1030.5	+4	W	2	bc	32	95	8	5	-	8	2-3	4-6	2500
16	Lerwick	54	1029.4	0	-	0	bc	39	75	8	5	6	-	2-3	4-6	2500
17	Blacksod Point	10	1029.9	+2	W	1	b	36	95	8	-	3	-	0	Tr.	-
18	Malin Head	51	1030.5	0	S	1	b	35	95	8	-	4	1	0	1	-
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1029.9	+1.4	S	1	b	41	95	9	-	8	-	0	1	-
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1032.3	+4	WSW	1	m	30	95	4	5	-	-	9+	9+	4000	4	*
	Croydon	1031.7	+6	W'N	1	cf	28	95	3	4	-	-	7-8	7-8	2500	4	*
	S. Farnborough	1032.3	+6	NW	1	cf	26	95	3	5	-	-	9	9	2500	4	*
	Winchester	1032.3	+2	N	2	bc	25	95	5	5	-	-	4-6	4-6	4000	4	*
	Boscombe Down	1032.7	+4	NW	1	bf	22	95	3	-	-	-	0	0	-	4	*
	Calshot, S'thmtn	1031.4	+4	NW'N	3	m	28	96	4	-	3	-	0	1	-	4	1
	Dungeness	*	*	N	3	m	*	*	4	5	-	*	2-3	2-3	4000	*	1
	Lympne	1030.0	+4	NW'N	3	mo	30	95	5	-	6	-	0	2-3	-	4	*
2	Shoeburyness	1031.4	+2	WNW	2	m	30	95	4	5	-	-	1	1	1500	4	*
	Felixstowe	1031.7	+4	N	2	c	32	95	5	5	-	-	7-8	7-8	2500	4	1
	Gorleston	1030.8	+8	NNW	2	c	37	85	7	9	6	-	4-6	7-8	2500	5	2
	Cranwell	1033.3	+12	WNW	2	f	30	95	2	5	-	-	10	10	4000	4	*
3	Cardington	1032.3	+4	W'N	1	cf	29	95	3	5	-	-	9+	9+	800	4	*
	Birmingham	1033.8	+4	NNW	2	bcf	27	96	3	-	3	-	0	2-3	-	8	*
	Upper Heyford	1033.4	+6	N	2	f	25	95	2	5	-	-	10	10	<150	4	*
	Leafield	1032.8	0	NW'N	2	cf	24	95	2	-	3	-	0	9	-	4	*
4	Ross-on-Wye	1033.6	+4	NW	1	F	22	95	1	5	-	-	10	10	<150	4	*
5	Portland Bill	1030.8	+2	NE	3	f	33	85	3	5	-	-	4-6	4-6	800	1	3
	Plymouth	1031.6	0	NE	2	b	33	85	6	-	-	-	0	0	-	4	1
	Falmouth	1032.0	0	N	3	c	36	85	7	8	-	-	7-8	7-8	4000	0	0
	Scilly (St. Mary's)	1030.6	+2	E	3	bc	41	85	6	1	-	-	2-3	2-3	4000	0	2
	Guernsey	1029.5	+4	NE	3	o	43	65	6	5	-	-	10	10	2500	0	3
6	Pembroke	1031.6	+4	ENE	3	bc	35	95	6	5	8	-	2-3	4-6	2500	0	2
7	Holyhead	1032.7	+6	ESE	1	bc	36	85	5	-	3	2	0	4-6	-	1	0
	Chester (Sealand)	1033.3	+6	SE	1	bf	19	95	3	-	-	-	0	0	-	4	*
8	L'pool (Bidston)	1034.0	+4	E	3	bF	24	95	1	-	-	-	0	0	-	4	*
9	Harrogate	1034.2	+6	WSW	1	c	30	86	7	4	-	-	9	9	4000	4	*
10	Spurn Head	1031.6	+2	ENE	3	c	39	95	6	3	2	-	7-8	10	4000	0	4
	Tynemouth	1032.5	+14	WNW	2	bc	30	85	6	5	-	-	4-6	4-6	1500	4	2
11	Inchkeith	1033.4	+4	WSW	2	m	31	95	4	5	-	-	4-6	4-6	7200	4	1
	Leuchars	1033.9	+10	W	1	c	25	85	6	-	3	-	0	9+	-	4	*
12	Renfrew	1033.5	+10	-	0	f	26	95	3	5	-	-	10	10	<150	4	*
	Eskdalemuir	1035.5	+4	-	0	c	17	95	8	5	-	-	9	9	2500	4	*
13A	Tiree	1031.2	+2	SSE	3	c	39	85	7	5	7	-	2-3	9+	2500	0	3
13B	Stornoway	1029.9	+2	SSW	3	c	41	95	7	5	6	-	4-6	9+	4000	1	2
15	Dalwhinnie	1033.9	.	SSE	1	c	25	95	8	5	-	-	9	9	4000	5	*
	Aberdeen	1033.3	+6	WNW	1	c	28	95	5	-	3	-	0	9+	-	4	1
	Wick	1031.1	+2	SW	2	bc	37	95	8	1	-	8	1	2-3	4000	5	2
16	Lerwick	1030.4	+8	-	0	c	40	75	7	4	6	-	4-6	7-8	1500	0	*
17	Blacksod Point	1030.8	0	-	0	b	38	95	7	-	-	9	0	Tr.	-	0	3
18	Malin Head	1031.0	+2	S	2	b	35	95	8	-	8	-	0	1	-	4	2
	Aldergrove	1033.3	+4	-	0	m	30	95	4	5	-	-	10	10	2500	4	*
	Donaghadee	1032.3	+2	WSW	1	c	41	85	7	5	2	-	7-8	9	2500	0	0
19	Birr Castle	1031.9	0	ENE	1	bc	26	95	7	-	4	-	0	4-6	-	4	*
20	Valentia Obsy.†	1030.5	0	E'N	1	bc	37	95	8	-	3	-	0	4-6	-	1	2
	Roches Point	1031.3	+4	SE	3	c	42	95	8	3	-	-	7-8	7-8	1500	0	4

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 6th Hrs. (36)
1	London (Kew)	39	27	17	-	-	2.0
	Croydon	32	27	25	-	-	0.0
	S. Farnborough	39	23	15	-	0.1	5.5
	Winchester	39	24	17	Tr.	-	4.4
	Boscombe Down	35	20	19	Tr.	0.1	*
	Calshot, S'thmtn	40	27	24	-	-	5.1
	Dungeness	39 40	25	*	-	-	*
	Lympne	38	30	27	0.2	Tr.	5.0
2	Shoeburyness	39	28	25	-	-	5.9
	Felixstowe	40	30	27	-	-	5.0
	Gorleston	42	33	31	2	0.4	5.0
	Cranwell	36	29	26	-	-	5.7
3	Cardington	37	22	19	-	-	5.5
	Birmingham	33	24	13	-	-	0.0
	Upper Heyford	36	23	21	-	-	*
	Leafield	36	21	19	0.2	-	3.8
4	Ross-on-Wye	34	22	22	-	-	1.3
5	Portland Bill	43	32	*	-	-	*
	Plymouth	44	32	28	0.1	-	6.3
	Falmouth	46	36 7	*	-	-	2.4
	Scilly (St. Mary's)	47	40	*	-	-	2.0
	Guernsey	45	42	31	-	-	3.1
6	Pembroke	44	34	*	-	-	4.0
7	Holyhead	41	36	26	0.5	Tr.	0.0
	Chester (Sealand)	30	19	15	Tr.	Tr.	0.0
8	L'pool (Bidston)	30	23	23	-	-	0 8.0
9	Harrogate	38	29	22	-	-	6.1
10	Spurn Head	38	36	*	-	Tr.	4.0
	Tynemouth	38	28	24	-	-	*
11	Inchkeith	36	30	25	-	-	5.0
	Leuchars	39	21	16	-	-	4.9
12	Renfrew	27	21	17	Tr.	Tr.	0.0
	Eskdalemuir	35	15	10	-	-	5.7
13A	Tiree	40	35	31	—	-	1.3
13B	Stornoway	39	35	*	-	-	0.5
15	Dalwhinnie	30	15	*	-	-	3.3
	Aberdeen	39	25	20	-	-	3.8
	Wick	35	28	*	-	-	*
16	Lerwick	40	36	*	-	-	1.4
17	Blacksod Point	45	35	*	-	-	*
18	Malin Head	40	32	*	-	-	3.4
	Aldergrove	32	23	18	Tr.	Tr.	1.0
	Donaghadee	43	39	*	0.2	-	*
19	Birr Castle	35	24	20	-	-	0.1
20	Valentia Obsy.†	49	35	32	-	Tr.	1.2
	Roches Point	47	39	*	-	-	*

LONDON OBSERVATIONS.

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

	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	oFxbFx	bFx	bfxcmx	39	27	17	-	-	2.0	*	*	2
Croydon	217	bxfF	bff FFx	bFcffx	32	27	25	-	-	0.0	*	*	3
Greenwich (Royal Observatory)	149	bmff	bffx	bfcfx	37	29	16	Tr.	Tr.	0.3	76	82	3
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.9	*	*	*
Westminster (St. James' Park)	27	*	*	*	41	29	25	-	-	0.2	72	83	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	3.7	*	*	*
Camden Square	110	b	b	*	37	31	20	-	-	*	*	83	*
Kensington Palace	80	bf bm	bmbcm	*	39	29	21	-	-	*	At 18h. 89	87	*
Hampstead Observatory	450	bcm	bmx	*	36	27	21	Tr.	0.1	4.7	*	89	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
3.6	10h. 6m	0.6	5h. 7m

Kew Observatory Max.	Time.	Min.	Time.
3.2	13h. 6m	0.6	6h. 7m

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 6th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 7th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1027.4	NNW	2	m	41	1029.4	NNW	2	m	34	43	34	-	-
Brussels	1026.3	NW	2	ido	34	1028.8	NE	2	b	32	45	28	?	-
Berlin	1019.7	WNW	3	o	32	1025.7	NW	3	ido	30	?	28	?	?
Zürich	1026.6	N	1	F	27	1026.3	SSE	1	m	25	34	21	-	-
Rome						1014.2	NNE	3	c	43		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.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 8th January 1931.

No. 25,249.

OBSERVATIONS at 13h. G.M.T. 7th January

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)	1032.8	-8	NNW	1	f-	37	85	3	-	-	9	0	4.6	-
	Croydon	1032.5	-6	-	0	F	32	85	1	-	-	-	0	0	-
	S. Farnborough	1032.6	-4	NW	1	f	35	85	3	-	-	-	0	0	-
	Winchester	1032.7	-6	N'E	3	z	37	75	5	-	-	-	0	0	-
	Boscombe Down	1033.4	-6	N	2	m	34	95	4	5	3	-	2.3	4.6	5700
	Calshot, S'thmtn	1032.4	+4	N'W	2	m	39	76	4	-	-	-	0	0	-
	Dungeness	«	«	NE	3	z	«	«	5	4	7	-	4.6	7.8	2500
	Lympne	1031.1	-6	N	4	m	36	95	4	5	-	-	9	9	4000
2	Shoeburyness	1032.3	-2	NNE	2	b	40	86	7	-	4	-	0	Tr.	-
	Felixstowe	1032.2	-6	N	3	z	41	75	6	5	-	-	2.3	2.3	4000
	Gorleston	1032.5	+2	NE'N	2	bc	41	95	6	8	-	-	4.6	4.6	2500
	Cranwell	1034.1	-2	NW'N	2	m	33	96	4	5	-	-	9+	9+	4000
3	Cardington	1033.5	-8	N	1	m	36	85	4	4	-	-	9	9	1500
	Birmingham	1034.2	+2	NNW	1	F	33	95	1	5	-	-	10	10	<150
	Upper Heyford	1034.6	+2	NNW	3	f	31	95	3	5	-	-	10	10	4000
	Leafield	1033.6	+16	NW'N	2	m	30	95	4	5	-	-	10	10	4000
4	Ross-on-Wye	1034.1	-4	NNW	1	m	27	95	4	6	-	-	10	10	4000
5	Portland Bill	1031.8	0	NE'N	4	c	40	65	6	5	5	-	4.6	7.8	1500
	Plymouth	1032.5	-4	ENE	3	b	41	75	8	1	-	1	Tr.	Tr.	4000
	Falmouth	1033.5	+10	NE	4	bc	42	75	7	1	3	-	2.3	2.3	4000
	Scilly (St. Mary's)	1031.8	-2	E'S	4	c	44	85	6	2	-	1	7.8	9	4000
	Guernsey	1030.6	+6	NE	3	bc	45	55	6	6	-	-	4.6	4.6	2500
6	Pembroke	1032.8	0	ENE	2	bc	38	95	6	8	4	9	2.3	4.6	2500
7	Holyhead	1033.6	-2	S'W	1	c/f	38	85	5	-	-	9	0	7.8	-
	Chester (Sealand)	1034.2	-2	SE'S	1	f	30	95	3	-	-	1	0	1	-
8	L'pool (Bidston)	1034.5	-2	SE'E	2	f	30	?	3	-	-	5	0	2.3	-
9	Harrogate	1034.6	0	-	0	c	35	75	7	5	-	-	9+	9+	4000
10	Spurn Head	1033.1	+2	NNW	1	c	42	85	8	3	3	-	4.6	7.8	4000
	Tynemouth	1034.3	0	W	2	f	36	75	3	4	-	-	7.8	7.8	2600
11	Inchkeith	1033.9	+4	WSW	2	m	34	86	4	5	-	-	10	10	800
	Leuchars	1033.9	-6	W	1	c	30	95	6	5	7	-	4.6	9+	4000
12	Renfrew	1034.2	-2	-	0	f	30	95	2	5	-	-	10	10	<150
	Eskdalemuir	1035.1	-2	-	0	bc	29	95	8	-	3	1	0	4.6	-
13A	Tiree	1031.7	0	S	3	c	43	86	8	6	3	-	1	9+	2500
13B	Stornoway	1030.6	0	S	2	c	43	95	7	5	6	-	7.8	9+	4000
15	Dalwhinnie	1033.5													
	Aberdeen	1034.0	+4	SSE	1	c	31	86	8	5	7	-	4.6	7.8	2600
	Wick	1033.3	-2	SW	2	c	36	75	6	-	3	-	0	9	-
16	Lerwick	1032.0	0	SSW	3	bc	39	85	8	5	8	-	1	2.3	4000
17	Blacksod Point	1031.8	+2	SSW	2	c	43	75	7	5	6	-	4.6	7.8	1500
18	Malin Head	1031.4	0	SE	2	c	43	85	7	-	7	-	0	9	-
	Aldergrove	1031.8	-2	S	2	bc	40	95	7	-	8	9	0	2.3	-
	Donaghadee	1034.4	+4	-	0	f	33	96	3	6	3	9	4.6	7.8	2600
19	Birr Castle	1033.8	+2	SW	1	c	41	75	7	6	-	-	9	9	1600
20	Valentia Obsy.†	1033.2	+2	NNW	1	c	35	75	6	-	-	9	0	7.8	-
	Roches Point	1031.4	-4	NE'E	2	c	45	85	8	5	3	1	4.6	7.8	4000
		1033.1	+2	SE	3	c	45	75	8	6	-	-	7.8	7.8	1500

OBSERVATIONS at 18h. G.M.T. 7th January

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)	1033.4	+4	NNE	2	z	36	85	5	-	-	-	0	0	-	4	*
	Croydon	1032.8	+6	N	2	F	30	96	1	-	-	-	0	0	-	4	*
	S. Farnborough	1032.8	+6	NNE	1	f	31	96	3	-	-	-	0	0	-	4	*
	Winchester	1033.1	+2	N'E	3	m	32	96	4	-	-	-	0	0	-	4	*
	Boscombe Down	1033.8	+6	N	2	m	29	95	4	-	-	-	0	0	-	0	*
	Calshot, S'thmtn	1032.8	+2	N'W	2	m	33	95	4	-	-	-	0	0	-	4	0
	Dungeness	«	«	E	2	c	«	«	7	5	7	-	4.6	7.8	2500	«	2
	Lympne	1031.9	+4	E	2	bc	34	85	6	5	-	-	2.3	2.3	2500	1	*
2	Shoeburyness	1033.0	+10	NE	2	c	37	95	7	5	3	-	4.6	7.8	2500	1	*
	Felixstowe	1033.4	+6	N'E	1	z	37	85	5	5	-	-	9	9	2500	1	2
	Gorleston	1033.4	+6	NE	1	c	39	86	7	9	-	-	9	9	1500	0	2
	Cranwell	1034.4	+2	NNW	2	f	32	95	3	5	-	-	9	9	4000	4	*
3	Cardington	1033.3	0	N'E	2	z	33	95	5	-	3	-	0	2.3	-	1	*
	Birmingham	1034.5	0	N	1	f	34	85	3	5	-	-	10	10	4000	8	*
	Upper Heyford	1034.5	0	N	2	f	31	95	3	-	-	-	0	0	-	4	*
	Leafield	1033.8	0	N'W'N	2	f	30	95	3	5	-	-	10	10	4000	4	*
4	Ross-on-Wye	1034.1	0	-	0	f	30	96	2	5	-	-	10	10	800	4	*
5	Portland Bill	1031.8	0	NNE	3	m	37	76	4	5	-	-	2.3	2.3	800	1	2
	Plymouth	1032.6	+4	ENE	1	b	37	65	7	5	-	-	Tr.	Tr.	4000	1	0
	Falmouth	1033.7	0	NE'E	4	bc	42	65	6	1	3	-	4.6	4.6	4000	0	3
	Scilly (St. Mary's)	1032.3	+6	E	4	b	42	85	6	-	-	-	0	0	-	0	2
	Guernsey	1030.2	0	NE	4	0	44	55	6	5	-	-	10	10	2600	0	3
6	Pembroke	1033.2	+2	ENE	3	b	37	95	6	7	9	-	1	1	4000	0	1
7	Holyhead	1033.6	0	S'W	1	bc	37	85	6	5	-	-	4.6	4.6	2600	1	0
	Chester (Sealand)	1034.3	+2	SE'S	1	f	26	96	3	-	-	-	0	0	-	4	*
8	L'pool (Bidston)	1034.3	0	ESE	3	b/f	31	95	6	6	-	-	Tr.	Tr.	1500	5	*
9	Harrogate	1034.7	0	-	0	c	34	85	6	5	-	-	10	10	4000	4	*
10	Spurn Head	1033.3	+2	NNE	1	bc	38	95	7	8	2	-	4.6	4.6	4000	0	3
	Tynemouth	1034.1	0	WNW	1	f	30	85	3	5	-	-	10	10	1500	4	1
11	Inchkeith	1033.8	-2	SW	1	m	35	96	4	5	-	-	10	10	1500	4	1
	Leuchars	1033.5	-6	-	0	c	30	95	6	5	-	-	10	10	4000	4	*
12	Renfrew	1033.7	-4	-	0	f	30	95	3	5	-	-	10	10	2500	4	*
	Eskdalemuir	1035.5	-2	NW	1	c	24	85	7	5	3	-	7.8	7.8	4000	4	*
13A	Tiree	1031.3	-2	S'E	3	bc	38	95	8	5	3	-	1	4.6	2600	0	3
13B	Stornoway	1029.2	-6	SSW	2	c	43	95	7	5	2	-	4.6	7.8	4000	1	2
15	Dalwhinnie	1029.9															
	Aberdeen	1033.6	+4	SSE	1	c	26	95	7	5	-	-	7.8	7.8	2600	5	*
	Wick	1033.0	-4	-	0	c	33	75	6	-	3	-	0	7.8	-	4	1
16	Lerwick	1031.3	-4	SSW	2	bc	36	95	8	5	-	8	2.3	2.3	4000	4	2
17	Blacksod Point	1031.0	-6	SSW	2	bc	39	85	7	5	4	-	1	2.3	1500	0	*
18	Malin Head	1030.4	-4	SE	4	c	43	85	7	-	7	-	0	9	-	0	3
	Aldergrove	1031.4	-2	SSE	1	bc	36	95	7	4	8	9	2.3	4.6	4000	4	1
	Donaghadee	1033.8	-2	SE'E	3	b	36	85	6	5	-	-	1	1	2500	4	*
19	Birr Castle	1033.2	0	SW	1	m	40	85	4	5	-	-	9	9	1500	4 0	0
20	Valentia Obsy.†	1032.9	+2	S	1	bc	33	95	8	5	-	-	2.3	2.3	4000	4	*
	Roches Point	1032.4	+10	ESE	3	c	44	75	8	6	2	-	4.6	10	5700	1	2
		1034.2	+4	SE	3	bc	42	75	8	5	-	-	4.6	4.6	1500	0	3

2500

PAST 24 HOURS. WEATHER.

District	Stations.	7h.–13h. 7th (37)	13h.–18h. 7th (38)	18h. 7th to 1h. 8th (39)	1h.–7h. 8th (40)
1	London (Kew)	cfxbcf	bfbmx	bcfx	cmx
	Croydon	cbffFx	bbcbFFx	bxff	ff
	S. Farnborough	cfx	bfbcbfx	bfoxfx	offx
	Winchester	bcmxmbm	bmmx	bmx	bmxff
	Boscombe Down	bffcffbcm	bcmbm	bmoffx	offfx
	Calshot, S'thmtn	bmxfm	bfxm	bmfx	bfx
	Dungeness	bc	bc	*	o
	Lympne	bcmcm	cmcm	coshm	cshm
2	Shoeburyness	bmb	bcc	c	omrs
	Felixstowe	bcmprbz	bzcprq	czrsom	omrr
	Gorleston	cbc	bcprbc	cprscv	cbcx
	Cranwell	cfmcfm	cbcmcf	cf	cfx
3	Cardington	cfxcm	bcmx	bmxcfx	cfx
	Birmingham	bcFF	Fcf	cff	cff
	Upper Heyford	bcffx	cbcbfcx	bbccfx	cofFx
	Leafield	cfxc	cmfc	cfx	cFFcx
4	Ross-on-Wye	Fcfcm	cmof	off	offx
5	Portland Bill	fbccz	cbcm	mfm	mfm
	Plymouth	bxmbc	b	bx	bccx
	Falmouth	bc	mcm	bcm	bcm
	Scilly (St. Mary's)	bcc	cbcb	bbc	c
	Guernsey	opbc	bcco	o	oc
6	Pembroke	bcm	bcbm	bmx	bbcmx
7	Holyhead	bcbbcmj	bcm	bcbbcmxc	com
	Chester (Sealand)	bfx	bbcfx	bbcfx	bccfmx
8	L'pool (Bidston)	Fxof	bfmfb	bcfbc	bxmbc
9	Harrogate	c	co	oc	c
10	Spurn Head	cpr	cbc	bccfc	cm
	Tynemouth	bcff	cff	offf	offcm
11	Inchkeith	bccmm	comm	cmmm	c
	Leuchars	cxm	cxm	cxm	cxm
12	Renfrew	offx	ffx	fxmc	c
	Eskdalemuir	cxbcx	bcxcx	cx	cx
13A	Tiree	c	c	bcc	c
13B	Stornoway	c	cbc	cbc	bcoir
15	Dalwhinnie				
	Aberdeen	c	cbc	ocu	cu
	Wick	cfm	c	cbczo	bczo
16	Lerwick	bc	bc	bc	bc
17	Blacksod Point	c	cbc	cbc	bc
18	Malin Head	c	c	c	c
	Aldergrove	bbc	bc	bczo	czozo
	Donaghadee	cxfbcxf	bcmbm	bxm	bcxm
19	Birr Castle	c	cm	bcmb	b
20	Valentia Obsy.†	bcc	cbc	bcx	bcx
	Roches Point	bcnbcc	c	cbc	oc
		c	cbc	bcc	cbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

<, less than (for cloud height).

⊕, solar halo. ☽, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

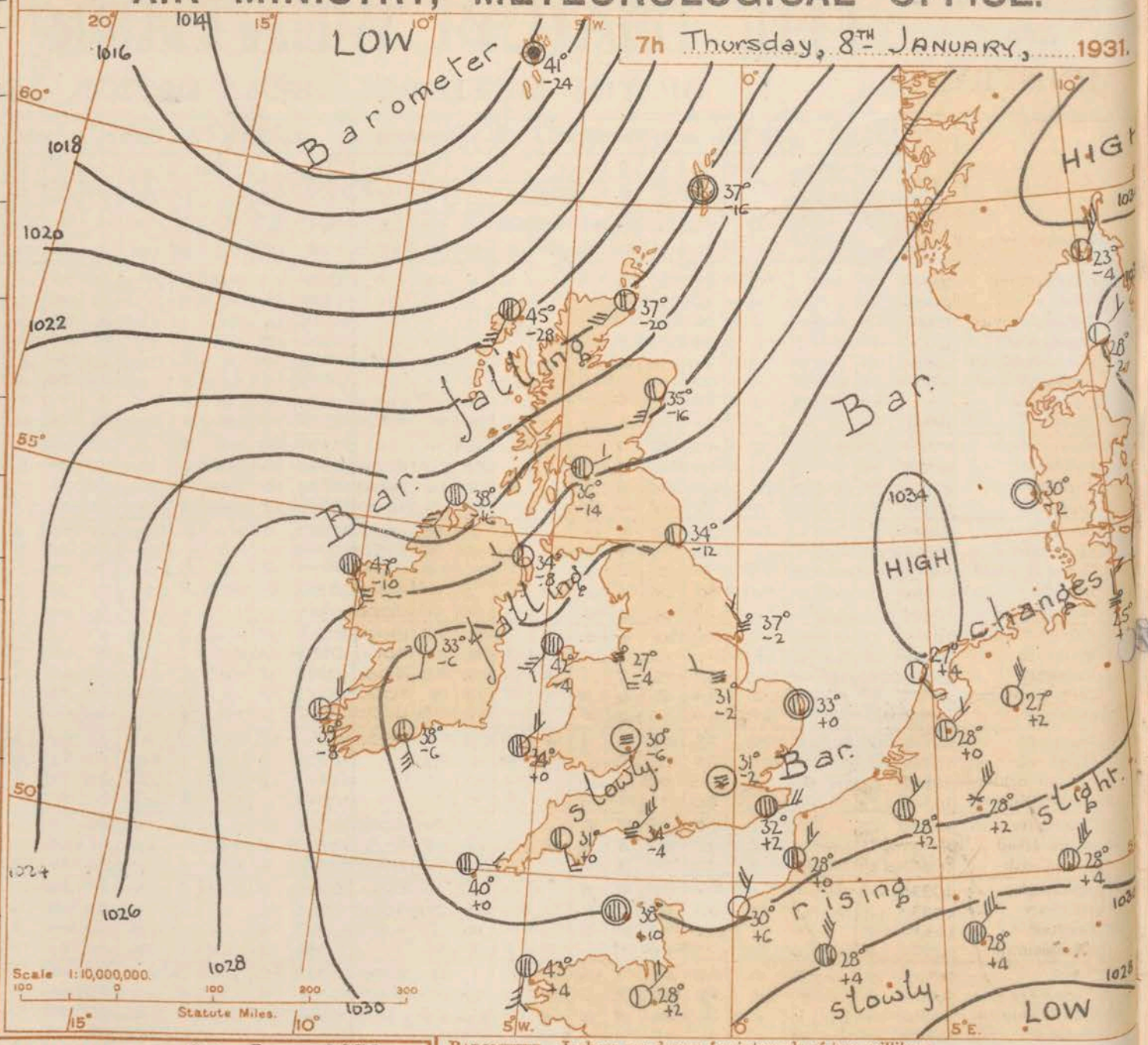
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 7th JANUARY, 1931.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 6th to 9h. 7th	Temperature. Max. 9h.—17h. 7th	Rainfall. Night 17h. 6th to 9h. 7th	Rainfall. Day 9h.—17h. 7th	Sunshine. Sunrise to Sunset. 7th
1	Tunbridge W.	bmb	bm	20	38	-	-	5.1
	Bournemouth	mcb	bm	24	38	-	-	3.5
	Ventnor ...	xbz	bbcz	31	39	-	-	5.9
	Southsea ...	bfm	bm	27	40	-	-	3.2
	Bognor Regis	xb	bx	31	40	-	-	4.6
	Littlehampton	bbc	b	29	37	-	-	5.1
	Worthing ...	bbc	bc	31	40	Tr.	-	5.3
	Brighton ...	cbbc	bc	30	41	-	-	5.9
	Eastbourne†	bbcb	bm	31	40	-	-	5.7
	Hastings† ...	xcbc	bcc	32	39	0.1	-	4.6
	Folkestone ...	xcoir	cbccp	32	41	Tr.	2	1.8
	Dover... ...	mbcir	sfcbcir	33	41	1	3	0.9
	Deal	xcobc	bcorc	31	41	1	2	1.0
	Ramsgate ...	cppbc	ppbc	35	40	0.4	0.6	1.7
	Margate ...	bccr	bc	38	42	Tr.	0.4	1.7
2	Southend ...	bcfb	bbccf	31	40	Tr.	-	4.9
	Maldon ...	xmb	bbcc	31	40	-	-	5.6
	Clacton-on-Sea	bc	bccpc	31	41	-	0.5	3.7
	Dovercourt ...	mxbc	rbc	31	41	-	0.2	4.1
	Lowestoft ...	bcbc	bccp	32	40	Tr.	0.3	4.2
	Skegness ...	bm	bmco	32	43	Tr.	-	4.3
	Mablethorpe	cxcm	bccm	33	42	Tr.	-	3.7
	Cleethorpes ...	cypvsr	ccbc	33	40	Tr.	1	3.9
3	Leamington S.	om	om	23	30	-	-	0.0
4	Cheltenham†	ofxf	ofx	23	32	-	-	0.0
5	Bath	fmc	cmf	23	30	-	-	0.0
	Weymouth ...	cbc	c	27	37	-	-	1.4
	Jersey ...	cfbc	bcz	36	46	-	-	3.8
	Torquay ...	bm	bm	27	37	-	-	6.4
	Penzance ...	cz	cz	32	44	-	-	6.2
	St. Ives ...	c	c	35	43	-	-	4.6
	Bude	xcbcb	bm	26	46	-	-	6.9
	Ilfracombe ...	b	b	31	41	-	-	6.8
6	Aberystwyth	bcxz	bc	27	42	-	-	6.4
7	Llandudno ...	bbc	cbc	26	36	-	-	0.7
	Colwyn Bay...	b	b	24	38	-	-	3.1
	Rhyl	bxm	bm	24	42	-	-	4.3
8	Wallasey ...	xff	fbcf	24	34	-	-	0.0
	Southport‖ ...	xfof	xcfb	23	29	-	-	0.0
	Blackpool ...	fxcm	xcm	19	32	-	-	2.8
	Morecambe ...	xmcbc	bcbbc	16	34	-	-	3.5
9	Ilkley... ...	xco	co	20	34	-	-	0.0
10	Berwick-on-T.	cbc	co	22	31	-	-	2.2
11	Dunbar ...	bcm	bcmc	25	34	-	-	1.0
12	Douglas ...	xcbmc	cbm	32	40	-	-	0.4

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



Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 8th Jan. 1931.
1. S.E. England 2. E. England...	Wind variable, light; variable cloud amount; some fog; perhaps sleet near coast; cold, night frost.
3. E. Midlands 4. W. Midlands	Wind variable, light; variable or cloudy sky; some fog; cold, night frost.
5. S.W. England 6. South Wales	Wind easterly, light; variable or cloudy sky; local mist, perhaps fog at night; cold, night frost.
7. North Wales 8. N.W. England	Wind variable to southwesterly, light or moderate; cloudy; mist; probably somewhat milder.
9. N. Midlands 10. N.E. England	Wind variable or westerly, light; variable or cloudy sky; some mist, perhaps fog; mainly cold but perhaps becoming milder later.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Wind southwesterly, light or moderate; cloudy; milder.
13. A. W. Scotld. B. N.W. Scotland.	Wind southwesterly, moderate or fresh; cloudy; probably occasional rain or sleet; milder.
14. Mid-Scotland 15. N.E. Scotland	Wind southwesterly, moderate; cloudy; perhaps occasional sleet or rain; becoming milder.
16. Orkneys and Shetlands.	As 13.
17. N.W. Ireland 18. N.E. Ireland	As 11, 12.
19. S.E. Ireland 20. S.W. Ireland	Wind southeast or south, light or moderate; fair; rather cold, with night frost; local mist.

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

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

GENERAL INFERENCE.

The central area of a large anticyclone extends from Scandinavia to beyond Southwest England, while a secondary depression centred west of the Faroes will move east or northeast. Weather will remain rather cold in central and southern districts, with fog locally and perhaps local wintry precipitation in the extreme Southeast. In extreme northwestern and northern districts weather will be milder, probably with occasional rain.

FURTHER OUTLOOK.

Quiet and cold over most of England; milder and perhaps less settled in Scotland.

Forecasts issued at 1015 G.M.T.

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

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT
OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 8th January 1931.

No. 25,249.

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

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	1033.2	-2	-	0	f	32	95	1	-	-	-	0	0	-
	S. Farnborough	237	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Winchester	275	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Boscombe Down	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Calshot, S'thmtn	8	1033.6	+4	NW	3	bf	33	95	3	-	-	-	0	0	-
	Dungeness	20	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Lympne	346	1032.9	+4	EN	2	sh	33	85	6	5	-	-	10	10	2500
2	Shoeburyness	11	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Felixstowe	55	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Gorleston	14	1033.5	+2	NE	4	c	38	85	7	8	-	-	9	9	2500
	Cranwell	240	1034.3	0	WNW	1	f	31	95	2	5	-	-	9+	9+	4000
3	Cardington	100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Birmingham	535	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Upper Heyford	408	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Leafield	612	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4	Ross-on-Wye	223	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5	Portland Bill	32	1032.4	-2	NEN	4	m	34	85	4	5	-	-	4-6	4-6	800
	Plymouth	82	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Falmouth	200	1033.5	0	N	3	bc	35	75	7	1	-	-	2-3	2-3	4000
	Scilly (St. Mary's)	163	1032.7	0	E	3	c	42	85	6	5	-	-	7-8	7-8	4000
	Guernsey	173	1031.0	+4	-	0	o	42	75	6	5	-	-	10	10	1500
6	Pembroke	142	1033.9	0	NE	2	bc	33	95	6	2	7	-	Tr.	2-3	4000
7	Holyhead	26	1033.3	-4	~~SES~~ SW	~~?~~ 3	c	40	85	7	5	-	-	9+	9+	4000
	Chester (Sealand)	16	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8	L'pool (Bidston)	198	•	•	•	•	•	•	•	•	•	•	•	•	•	•
9	Harrogate	478	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10	Spurn Head	67	1033.9	0	-	0	c	36	95	7	5	7	-	2-3	7-8	2500
	Tynemouth	29	1033.5	-6	W	2	f	35	85	3	5	-	-	10	10	1500
11	Inchkeith	190	1032.8	-10	SW	2	c	36	85	7	5	2	-	4-6	10	800
	Leuchars	35	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12	Renfrew	36	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Eskdalemuir	794	•	•	•	•	•	•	•	•	•	•	•	•	•	•
13A	Tiree	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•
13B	Stornoway	34	1027.1	-12	S	4	c	43	95	7	4	•	-	7-8	7-8	4000
15	Dalwhinnie	—	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Aberdeen	37	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Wick	81	1028.4	-12	SW	2	b	30	95	8	-	8	-	0	1	-
16	Lerwick	54	1028.3	-10	SW	3	bc	41	75	7	4	7	-	4-6	4-6	1500
17	Blacksod Point	10	1029.8	-4	S	4	c	46	85	7	8	-	-	9	9	450
18	Malin Head	51	1029.9	-10	S	3	c	38	95	6	5	5	-	2-3	9+	1500
	Aldergrove	238	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Donaghadee	40	•	•	•	•	•	•	•	•	•	•	•	•	•	•
19	Birr Castle	173	•	•	•	•	•	•	•	•	•	•	•	•	•	•
20	Valentia Obsy.†	30	1031.7	0	SSW	2	c	41	95	9	-	7	-	0	7-8	-
	Roches Point	22	•	•	•	•	•	•	•	•	•	•	•	•	•	•

OBSERVATIONS at 7 hr. G.M.T. 8th January

Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0–12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0–9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0–10 (26)	Cloud Amount Total 0–10 (27)	Height of Base (feet) (28)	State of Ground 0–9 (29)	Sea 0–9 (30)
London (Kew)	1033.6	-4	-	0	m	32	95	4	5	-	-	9+	9+	4000	4	•
Croydon	1033.1	-2	-	0	f-	31	95	2	5	-	-	10	10	<150	4	•
S. Farnborough	1033.3	0	NW	1	of	27	95	3	5	-	-	10	10	800	4	•
Winchester	1033.4	-4	N	2	of	28	95	3	-	-	-	0	0	-	4	•
Boscombe Down	1034.2	0	N	2	f	25	95	2	5	-	-	10	10	<150	4	•
Calshot, S'thmtn	1033.1	-2	NWN	3	bf	29	95	2	-	-	-	0	0	-	4	1
Dungeness	•	•	SE	2	c	•	•	7	5	5	•	4-6	7-8	2500	•	1
Lympne	1032.7	+2	E	2	o/s	32	85	6	5	-	-	10	10	2500	4	•
Shoeburyness	1033.6	0	NW	1	o/rs	33	95	4	5	-	-	10	10	1500	6	•
Felixstowe	1033.9	0	-	0	o/r	34	95	6	5	-	-	10	10	1500	1	2
Gorleston	1033.6	0	-	0	bc	33	95	7	8	-	-	4-6	4-6	2500	4	2
Cranwell	1033.5	-2	W	1	f	31	95	2	5	-	-	9+	9+	4000	4	•
Cardington	1033.8	-2	WN	1	f	29	95	3	5	-	-	10	10	<150	4	•
Birmingham	1034.0	-4	-	0	of	33	95	3	5	-	-	10	10	2500	8	•
Upper Heyford	1034.4	-4	-	0	F	25	95	1	5	-	-	10	10	<150	4	•
Leafield	1033.7	-6	NWN	2	F	26	95	1	5	-	-	9+	9+	4000	4	•
Ross-on-Wye	1033.6	-6	-	0	of	30	95	2	5	-	-	10	10	450	4	•
Portland Bill	1031.4	-4	NEN	4	m	34	85	4	4	-	-	7-8	7-8	1500	1	3
Plymouth	1033.1	0	~~SE~~ NE	2	bc	31	85	7	-	-	8	0	7-8	-	4	0
Falmouth	1033.7	+2	N	2	bc	34	65	6	5	1	-	2-3	4-6	4000	5	2
Scilly (St. Mary's)	1032.7	0	E	1	c	40	85	6	5	-	-	7-8	7-8	4000	0	1
Guernsey	1031.6	+10	-	0	c	38	75	6	5	-	-	7-8	7-8	2500	0	3
Pembroke	1033.1	0	NE	2	c	34	95	6	7	-	8	4-6	9+	4000	4	1
Holyhead	1032.0	-4	SWS	4	o	42	75	6	5	-	-	10	10	2500	1	1
Chester (Sealand)	1032.9	-4	SES	2	m	27	95	4	5	-	-	9	9	4000	4	•
L'pool (Bidston)	1033.3	-4	ESE	2	fg	31	85	6	5	-	-	7-8	7-8	1500	4	•
Harrogate	1033.3	-6	-	0	c	32	85	6	5	-	-	9+	9+	2500	4	•
Spurn Head	1032.8	-2	WN	1	m	37	95	4	5	3	-	7-8	7-8	800	0	2
Tynemouth	1031.8	-12	WSW	2	z	34	85	5	5	-	1	4-6	4-6	800	4	1
Inchkeith	1030.0	-6	SW	3	c	38	95	6	5	2	-	7-8	10	800	0	1
Leuchars	1028.9	-16	SW	3	m	33	85	4	5	3	-	4-6	7-8	4000	4	•
Renfrew	1029.7	-14	E	1	c	36	95	7	5	-	-	9+	9+	4000	4	•
Eskdalemuir	1032.3	-12	-	0	c	29	95	6	5	-	-	9+	9+	4000	4	•
Tiree	1025.5	-24	SSW	5	c	45	95	7	5	2	-	7-8	~~9~~ 10	2500	0	3
Stornoway	1021.6	-28	SSW	4	c	45	95	7	6	2	-	9	10	4000	1	3
Dalwhinnie	1027.8 (7)	-20	WSW	2	c	35	95	7	5	-	-	9	9	1500	3	•
Aberdeen	1027.3	-16	SSW	3	bc	35	85	6	•	3	-	0	4-6	-	4	1
Wick	1024.9	-20	SW	3	bc	37	95	8	1	3	-	1	4-6	5700	5	2
Lerwick	1023.8	-16	-	0	bc	37	85	8	4	3	-	2-3	2-3	2500	0	•
Blacksod Point	1029.2	-10	ESE	4	u	47	85	7	8	-	-	10	10	800	0	4
Malin Head	1027.3	-16	SW	4	c	38	95	6	-	9	8	0	7-8	-	0	1
Aldergrove	1031.3	-10	SSE	2	c	34	95	6	5	3	-	4-6	7-8	2500	4	•
Donaghadee	1030.3	-8	W	1	bc	34	95	7	5	2	-	1	2-3	4000	0	0
Birr Castle	1032.0	-6	S	1	bc	33	95	8	-	4	-	0	4-6	-	4	•
Valentia Obsy.†	1031.9	-8	ENE	2	bc	39	85	8	-	3	-	0	2-3	-	1	2
Roches Point	1032.8	-6	SE	3	bc	38	85	8	5	-	-	4-6	4-6	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 7th Hrs. (36)
London (Kew)	40	31	23	-	Tr.	1.3
Croydon	33	30	25	-	-	0.0
S. Farnborough	38	25	15	-	Tr.	4.5
Winchester	37	27	21	Tr.	-	5.8
Boscombe Down	35	25	21	0.2	0.1	*
Calshot, S'thmtn	40	28	24	- ~~1~~	0.2	5.4
Dungeness	40	33	•	0.4	Tr.	•
Lympne	39	31	28	0.3	0.1	1.8
Shoeburyness	41	32	31	-	0.2	5.5
Felixstowe	41	33	30	0.1	1	4.0
Gorleston	44	32	29	Tr.	1	4.0
Cranwell	34	30	26	-	-	0.0
Cardington	37	21	20	-	-	0.1
Birmingham	35	32	29	-	-	0.0
Upper Heyford	33	23	23	0.3	-	*
Leafield	30	24	20	0.2	-	0.0
Ross-on-Wye	30	29	28	-	-	0.0
Portland Bill	41	32	•	-	-	•
Plymouth	42	30	25	-	-	7.0
Falmouth	44	34	•	-	-	4.1
Scilly (St. Mary's)	45	38	•	-	-	5.1
Guernsey	~~44~~ 45	37	27	Tr.	Tr.	2.2
Pembroke	40	31	•	-	-	5.3
Holyhead	40	36	27	-	Tr.	2.2
Chester (Sealand)	30	23	17	-	-	3.7
L'pool (Bidston)	32	30	28	-	-	2.1
Harrogate	35	32	27	-	-	0.0
Spurn Head	43	35	•	1	-	3.1
Tynemouth	36	30	28	-	-	•
Inchkeith	35	34	31	-	-	0.0
Leuchars	31	29	27	-	-	0.0
Renfrew	31	30	30	-	-	0.0
Eskdalemuir	31	23	21	-	-	0.2
Tiree	43	36	32	r	-	0.0
Stornoway	43	42	•	-	1	0.0
Dalwhinnie	32	26	•	-	-	0.0
Aberdeen	36	32	28	-	-	0.0
Wick	39	28	•	-	-	•
Lerwick	43	37	•	-	-	4.0
Blacksod Point	44	42	•	-	Tr.	•
Malin Head	40	35	•	-	-	6.1
Aldergrove	39	31	27	Tr.	Tr.	1.3
Donaghadee	42	33	•	-	-	•
Birr Castle	40	32	24	-	-	3.2
Valentia Obsy.†	47	39	35	-	-	0.9
Roches Point	46	37	•	-	-	•

LONDON OBSERVATIONS.

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

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. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h. (To-day)
Kew	18	cfxbcf	bfbm$_0$x	bcfxcm	40	31	23	-	Tr.	1.3	•	•	2
Croydon	217	cbffFx	bbcbFFx	bxff	33	30	25	-	-	0.0	•	•	1
Greenwich (Royal Observatory)	149	cbfx	bfmx	bsmfx	39	32	24	Tr.	Tr.	0.6	78	97	2
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.3	•	•	•
Westminster (St. James' Park)	27	•	•	•						0.1			•
Regents Pk. (Botanic Gardens)	168	•	•	•	•	•	•	•	•	1.3	•	•	•
Camden Square	110	xcb	b	•	39	32	25	-	-	•	•	96	•
Kensington Palace	80	bcfm	bcm	•	41	32	23	-	-	•	At 18h. 95	95	•
Hampstead Observatory	450	bcmx	cx	•	38	29	27	Tr.	0.1	3.5	•	79	•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
1.3	10h.7m	0.3	5h-6h. 8th

Kew Observatory. Max.	Time.	Min.	Time.
DEFECTIVE RECORD			

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 7th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 8th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1030.7	NE	2	z	34	1031.3	NE	2	o	30	37	30	-	-
Brussels	1032.0	NE'N	3	c	30	1032.8	NE	2	c	28	36	28	-	-
Berlin	1029.1	N	2	es$_0$	30	1028.7	NNW	2	c	28	32	27	0.3	-
Zürich	1027.0	NE	1	z	30	1027.6	SE	1	bos$_0$	27	32	27	-	Tr.
Rome	1014.2	NE'E	3	c	46								-	

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 ,, 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.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 9th January 1931.

No. 25250

OBSERVATIONS at 13h. G.M.T. 8th JANUARY

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)...	1032.8	-12	SW	1	of	34	95	2	5	-	-	10	10	450
	Croydon ...	1032.5	-10	NW	1	F	33	95	1	5	-	-	10	10	450
	S. Farnborough	1032.5	-16	NW	1	cf	31	95	3	5	-	-	9+	9+	2500
	Winchester ...	1032.8	-12	NNW	1	oF	30	95	1	5	-	-	10	10	<150
	Boscombe Down	1033.5	-10	N	1	F	26	95	1	5	-	-	10	10	<150
	Calshot, S'thmtn	1033.0	-8	NW'N	3	of	32	95	2	5	-	-	10	10	<150
	Dungeness ...	-*-	-*-	SE	2	c	-*-	-*-	7	4	-	-*-	7-8	7-8	4000
	Lympne ...	1031.9	-18	SW	1	c	35	65 (95)	7	5	-	-	7-8	7-8	2500
2	Shoeburyness	1033.0	-10	W	2	bc	35	95	6	5	3	-	2-3	4-6	1500
	Felixstowe ...	1032.5	-16	WNW	2	o/pro	35	85	6	5	-	-	10	10	2500
	Gorleston ...	1032.7	-8	-	0	ph	34	85	6	6	-	-	10	10	1500
	Cranwell ...	1031.6	-18	Sw'W	2	cf	35	95	3	5	3	-	7-8	9	4000
3	Cardington ...	1032.6	-14	W	1	cf-	34	95	3	5	-	-	9+	9+	2500
	Birmingham ...	1032.2	-8	W	1	bcf	38	85	3	2	4	-	1	2-3	1500
	Upper Heyford	1033.3	-10	-	0	cf	32	95	3	5	-	-	9+	9+	4000
	Leafield ...	1032.4	(-8)	SSE	1	c	35	95	6	5	-	-	7-8	7-8	4000
4	Ross-on-Wye ...	1032.2	-10	-	0	F	29	95	0	5	-	-	10	10	<150
5	Portland Bill...	1031.6	-10	NE'N	3	c	37	85	5	5	7	-	4-6	7-8	1500
	Plymouth ...	1032.5	-10	E	1	bc	40	55	8	7	-	2	Tr	4-6	4000
	Falmouth ...	1033.7	(-12)	N	2	bc	38	75	6	5	3	-	4-6	4-6	4000
	Scilly (St. Mary's)	1032.7	-6	NNE	1	c	44	75	7	5	8	4	2-3	7-8	4000
	Guernsey ...	1031.3	-6	-	0	o	40	75	6	5	-	-	10	10	2500
6	Pembroke ...	1032.3	-10	NE	2	c	37	95	6	7	1	8	2-3	9+	4000
7	Holyhead ...	1030.5	-18	WSW	4	c	43	75	6	5	-	8	9	9+	4000
	Chester (Sealand)	1031.2	-16	SE'S	2	z	31	95	5	5	-	-	10	10	2500
8	L'pool (Bidston)	1031.2	-20	S'E	3	f	34	75	3	5	-	-	10	10	1500
9	Harrogate ...	1030.7	-10	SSW	1	m	35	75	4	5	-	-	10	10	<150
10	Spurn Head ...	1030.8	-4	SW	1	c	40	85	6	5	4	9	2-3	7-8	2500
	Tynemouth ...	1028.6	-12	SW	2	f	37	85	3	8	-	-	4-6	4-6	1500
11	Inchkeith ...	1026.5	-22	WSW	3	c	41	85	6	5	2	-	2-3	10	800
	Leuchars ...	1025.2	-22	SW	3	c	38	85	6	5	7	-	4-6	10	1500
12	Renfrew ...	1025.9	-28	Sw'W	5	iro	40	95	5	6	-	8	9+	10	2500
	Eskdalemuir ...	1028.5	-20	SW	4	o	34	95	5	5	-	-	10	10	450
13A	Tiree ...	1023.3	0	NNW	5	o/r	44	85	8	6	-	-	10	10	1500
13B	Stornoway ...	1021.0	+14	NW	4	c	42	85	8	8	7	-	4-6	7-8	4000
15	Dalwhinnie 1023.8	1033.3	-28	WSW	4	rs	36	95	6	5	-	-	9	9	1500
	Aberdeen ...	1022.3	-32	SSW	4	c	38	85	5	5	7	6	4-6	9	2500
	Wick ...	1019.7	-30	SW	4	RR	40	95	7	6	-	-	10	10	1500
16	Lerwick ...	1018.2	-40	S'W	2	bc	43 (42)	85	7	4	3	-	2-3	4-6	1500
17	Blacksod Point	1027.3	-6	W	2	dd	47	85	7	6	-	-	10	10	<150
18	Malin Head ...	1025.0	-14	SW	4	ir	41	95	5	6	2	-	7-8	10	1500
	Aldergrove ...	1028.7	-14	S'W	3	c	37	85	6	-	7	-	0	10	-
	Donaghadee ...	1028.5	-16	WSW	1	c	39	75	7	5	-	-	7-8	7-8	4000
19	Birr Castle ...	1031.0	-10	S	1	c	41	85	7	-	-	7	0	10	-
20	Valentia Obsy.†	1031.3	-10	SE'S	3	c	45	75	8	1	-	6	1	9	4000
	Roches Point...	1032.4	-4	N	1	z	41	85	5	5	-	4	4-6	7-8	1500

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

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)	1032.0	0	-	0	F	30	95	0	5	-	-	10	10	<150	4	*
Croydon	1031.7	0	SSW	1	F	30	95	0	5	-	-	10	10	<150	4	*
S. Farnborough	1031.7	-2	-	0	F	28	95	1	5	-	-	10	10	<150	4	*
Winchester	1032.6	+4	-	0	F	25	85	1	5	-	-	10	10	<150	4	*
Boscombe Down	1032.8	0	N'W	2	F	25	95	1	5	-	-	10	10	<150	4	*
Calshot, S'thmtn	1032.0	-2	WNW	2	F	29	95	0	5	-	-	10	10	<150	4	0
Dungeness	-*-	-*-	SW	1	z	*	*	6	5	-	*	7-8	7-8	2500	*	1
Lympne	1030.9	-2	W	2	z	31	75 (95)	6	5	-	-	10	10	2500	4	*
Shoeburyness	1031.7	0	N'W	1	m	31	95	4	5	2	-	7-8	7-8	1500	5	*
Felixstowe	1031.7	-4	NNW	1	o	33	95	5	5	-	-	10	10	1500	1	1
Gorleston	1031.3	0	WSW	1	c	34	85	6	6	-	-	9+	9+	2500	4	2
Cranwell	1030.3	-10	Sw'S	2	f	34	85	3	5	-	-	10	10	4000	4	
Cardington	1031.6	-4	WSW	2	m	32	95	4	5	-	-	10	10	2500	4	*
Birmingham	1031.1	-6	SW	2	o	34	85	5	5	-	-	10	10	4000	3	*
Upper Heyford	1032.2	-2	S	1	f	31	95	3	5	-	-	10	10	<150	4	*
Leafield	1031.7	0	WSW	2	z	31	85	5	5	-	-	9+	9+	4000	4	*
Ross-on-Wye	1031.1	-4	-	0	of-	30	95	3	5	-	-	10	10	220	4	
Portland Bill	1030.8	0	NE'N	3	bc	36	85	6	4	-	-	4-6	4-6	2500	1	3
Plymouth	1032.0	+2	ENE	1	z	35	85	5	5	3	1	2-3	2-3	4000	4	0
Falmouth	1033.0	-2	NNW	2	bc	37	75	6	5	-	-	4-6	4-6	4000	0	1
Scilly (St. Mary's)	1031.9	0	NE'N	2	bc	39	85	8	5	-	8	2-3	4-6	4000	0	0
Guernsey	1030.0	-4	-	0	o	40	75	6	5	-	-	10	10	2500	0	3
Pembroke	1031.1	-4	W	3	bc	41	85	6	7	1	9	2-3	4-6	~~5700~~ 4000	0	1
Holyhead	1028.4	-14	WSW	4	o	43	75	6	5	-	-	10	10	4000	1	1
Chester (Sealand)	1029.3	-8	Sw'S	1	z	35	95	5	5	-	-	4-6	4-6	4000	3	*
L'pool (Bidston)	1029.1	-8	SW	3	bc	36	75	6	5	-	-	2-3	2-3	1500	4	*
Harrogate	1028.3	-10	SSW	2	bc	35	85	5	5	-	-	2-3	2-3	2500	4	*
Spurn Head	1029.4	-4	SW	2	f	36	95	2	5	-	-	10	10	220	0	2
Tynemouth	1025.8	-16	WSW	3	m	37	85	4	4	-	-	7-8	7-8	4000	4	1
Inchkeith	1023.7	-6	WSW	4	roro	39	95	7	5	-	-	10	10	800	1	2
Leuchars	1022.5	-4	WSW	3	iro	38	95	6	6	2	-	7-8	10	1500	1	*
Renfrew	1024.4	+2	WSW	2	c/r	39	95	7	5	2	-	7-8	9+	4000	2	*
Eskdalemuir	1024.8	-18	Sw'S	5	roro	36	95	6	6	-	-	10	10	800	1	*
Tiree	1025.8	+14	NW	5	bc	42	75	8	4	7	-	1	2-3	2500	1	3
Stornoway	1023.3	+8	NW	2	bc/PH	38	85	7	3	-	-	4-6	4-6	4000	6	1
Dalwhinnie	1023.4	+4	NW	2	c	35	95	7	5	-	-	7-8	7-8	2500	1	
Aberdeen	1021.4	+2	WNW	3	o/r	38	85	7	6	2	-	1	10	1500	1	1
Wick	1019.0	+12	WNW	3	bc	37	95	8	8	6	-	4-6	4-6	2500	1	3
Lerwick	1013.6	-10	W'N	2	roro	42	95	6	6	-	-	10	10	1500	1	*
Blacksod Point	1029.7	+16	N	3	c	44	75	7	-	7	-	0	8	-	0	3
Malin Head	1026.3	+10	N'W	4	bc	45	95	7	6	4	-	2-3	2-3	4000	1	2
Aldergrove	1027.1	-4	SSW	3	iro	36	95	6	6	2	-	7-8 (~~10~~)	10	800	1	*
Donaghadee	1025.9	-12	W	2	iro	38	95	7	6	-	-	7-8	7-8	800	1	1
Birr Castle	1028.6	-10	S	1	roro	39	95	6	6	-	-	10	10	2500	1	*
Valentia Obsy.†	1030.4	-6	Sw'W	3	c	49	85	8	5	2	-	7-8	10	1500	1	2
Roches Point	1031.1	-4	NE	2	m	42	95	4	5	-	-	10	10	800	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)	cmofx	bfoFx	oFx	omxoso
Croydon	offFx	ofFFx	oFxcm	cmmo
S. Farnborough	ofcmcfx	cfxbcfxofx	oFx	oFxbfoisomo
Winchester	bffxmFFx	FFx	FFxbm	bmoSomo
Boscombe Down	oFfx	oFF	oFFoff	offso
Calshot, S'thmtn	bfx ofx	offex	offex	offefxiso
Dungeness	o	o	*	m
Lympne	cmopsoo	bcmocmo	cmobcF	bcfmox
Shoeburyness	omisobc	bcmo	cm	oso
Felixstowe	czocpro	czocmo	cmobcmox	bcmoxosf
Gorleston	bccxmm	ophoc	bcmox	bcxososo
Cranwell	xcf	cfmF	cfomoo	osmbcm
Cardington	Fxc*f	cmoom	om	omosodom
Birmingham	cfbcf	fbcc	co	ososcm
Upper Heyford	oFcfx	bccofex	oFex	ososocm
Leafield	cfm	cbc	mbcc	cs
Ross-on-Wye	foFF	FFof	ofcfo	[illegible]
Portland Bill	mcmo	cbczo	bccz	coiro
Plymouth	cxfbcmo	bcmo	bccmo	corosomo
Falmouth	bccbcmo	bcm	bcmo	bccirmo
Scilly (St. Mary's)	c	cbc	bcb	bbccp
Guernsey	coo	o	o	o
Pembroke	cmo	cbc	cir	cpo
Holyhead	czo	czo	roroc	c⊕
Chester (Sealand)	cmxso	cmo	b,cprmo	cbcmo
L'pool (Bidston)	isoff	o	oircc	c
Harrogate	cm	cosob	boro	cb
Spurn Head	cmzc	cmof	ofmfr	ofsrzcbc
Tynemouth	bcff	bccff	cmoirzb	bbc
Inchkeith	c	cororo	ocbcb	bbc
Leuchars	cbcxcmo	ciromo	cromobx	bbcx
Renfrew	ccromo	irorrc	cbbx	bbcx
Eskdalemuir	cxo	ocroro	crorobcbx	bx
Tiree	croRR	oirocbc	bcPR	prq
Stornoway	oroc	bcPH	bcPR.	bcpr
Dalwhinnie	cirs	irso	bc	psc
Aberdeen	bccz	aroroirc	crobc	bbcx
Wick	bcoRr	circbc	bc	bcprsbc
Lerwick	bc	bcororo	ororocpr	bcpro
Blacksod Point	prq	c	prc	bc
Malin Head	czozo	cirbc	bcpro	bcc⊕
Aldergrove	bcxmocmo	crorocirom	cirobcx	bcxcxmo
Donaghadee	bbcc	ciro	cbc	bc
Birr Castle	bcc	cororo	ororocbcx	bcx
Valentia Obsy.†	bcc	c	oprobc	bbc
Roches Point	bccz	czomm	omiroc	cbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

h(r), "hail" or "rain and hail."
Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,
R, heavy rain. r_0, slight rain.
rr, continuous rain.
<, less than (for cloud height).
⊕, solar halo. Ⓤ, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries. "tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{20}$ 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.

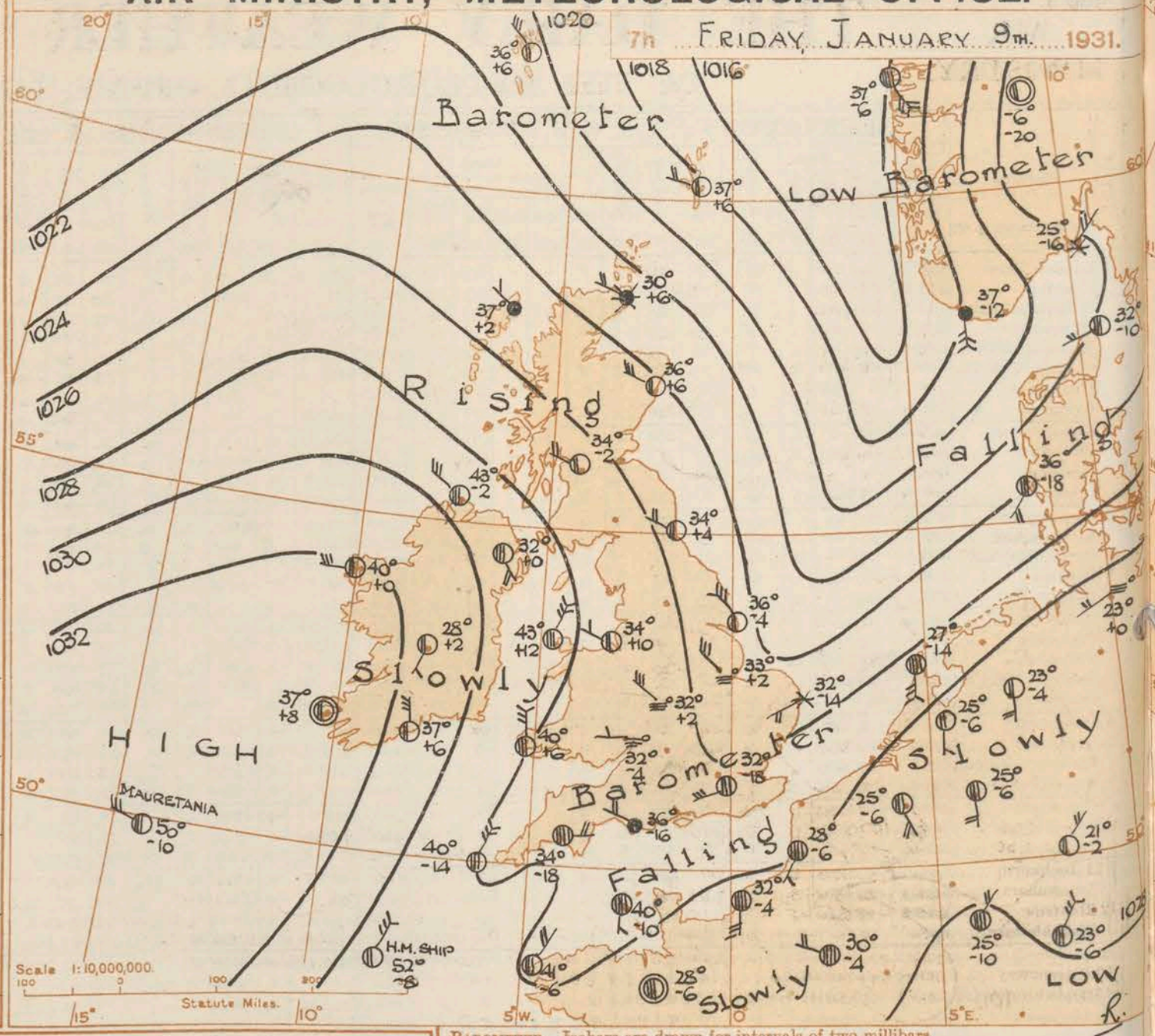
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 8th January 1931.

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.	obpb	bcc	22	32	Tr.	Tr.	0.4
	Bournemouth	f	f	25	30	–	–	0.0
	Ventnor ...	xbz	bzoz	31	39	–	–	5.6
	Southsea ...	Fff	Fff	27	33	–	–	0.0
	Bognor Regis	obob	bo	32	38	–	–	3.0
	Littlehampton	cmc	cbcm	29	38	Tr.	–	2.6
	Worthing ...	oc	cbc	33	37	Tr.	–	0.9
	Brighton ...	rso	ocbc	32	36	Tr.	Tr.	0.1
	Eastbourne†	so	ocf	33	36	0.1	Tr.	0.0
	Hastings† ...	oc	cbcm	33	37	0.1	–	0.0
	Folkestone ...	xoso	com	31	35	–	Tr.	0.1
	Dover... ...	c	cbcc	33	35	–	–	0.1
	Deal	co	o	33	36	–	–	0.0
	Ramsgate ...	o	o	32	34	–	–	0.0
	Margate ...	c	c	32	35	–	–	0.0
2	Southend ...	ors	bcom	32	36	0.3	0.2	0.6
	Maldon ...	fosc	bccof	32	36	Tr.	Tr.	1.6
	Clacton-on-Sea	cbcc	cbccm	32	36	1	–	0.9
	Dovercourt ...	xrroc	bc	33	38	2	–	1.5
	Lowestoft ...	coid	cgc	31	34	Tr.	Tr.	0.0
	Skegness ...	cmbco	of	30	37	0.1	Tr.	2.7
	Mablethorpe	cmx	cmmx	28	37	–	–	0.9
	Cleethorpes...	oiro	o	32	41	2	–	2.2
3	Leamington S.	om	om	25	34	–	–	0.0
4	Cheltenham†	cofx	cofx	28	32	–	–	0.0
5	Bath	f	f	23	28	–	–	0.0
	Weymouth ...	cmb	bm	28	37	–	–	3.1
	Jersey ...	c	c	37	46	–	–	0.0
	Torquay ...	bcmf	bcm	29	37	–	–	1.9
	Penzance ...	cmb	b	31	44	–	–	3.6
	St. Ives ...	c	c	35	43	–	–	2.6
	Bude	cbc	bm	26	41	–	–	3.6
	Ilfracombe ...	cbcb	bz	32	41	–	–	3.4
6	Aberystwyth	bccx	czo	29	37	–	–	0.0
7	Llandudno ...	o	oc	29	42	0.2	–	0.0
	Colwyn Bay...	o	o	27	42	Tr.	–	0.0
	Rhyl	ogxc	cbc	24	38	–	–	0.0
8	Wallasey ...	foiso	oc	25	37	–	Tr.	0.0
	Southport‖ ...	of	ofoc	26	33	–	–	0.0
	Blackpool ...	om	odc	23	40	–	0.3	0.0
	Morecambe ...	crsc	ce	24	36	–	1	0.0
9	Ilkley... ...	c	cosm	23	36	–	Tr.	0.0
10	Berwick-on-T.	o	o	24	39	–	–	0.0
11	Dunbar ...	bcmc	cdr	26	42	–	0.3	1.6
12	Douglas ...	xbccb	cbors	33	43	–	Tr.	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 the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 5/10 clouded. ◑ Sky 5/10 to 9/10 clouded. ◑ Sky 9/10 to 10/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⊤ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 9th Jan. 1931.
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 northerly wind; fair; local fog later; cold, frost at night.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Light or moderate northwest to west wind; fair; rather cold, frost at night; becoming milder tomorrow.
13. A. W. Scotld. B. N.W. Scotland.	Wind west to northwest, moderate or light; backing and freshening later; fair at first apart from local showers, perhaps rain later; rather cold, then milder.
14. Mid-Scotland 15. N.E. Scotland	As 11 - 12.
16. Orkneys and Shetlands.	As 13.
17. N.W. Ireland 18. N.E. Ireland	Light westerly wind; fair; rather cold, becoming milder later.
19. S.E. Ireland 20. S.W. Ireland	Light variable wind; fair, local fog later; rather cold, frost at night.

GENERAL INFERENCE.

An anticyclone centred off Southwest Ireland will move slowly east or east-southeast. Weather will be mainly fair with night frost and local fog. Milder weather will soon set in over Scotland with rain in the Northwest.

FURTHER OUTLOOK.

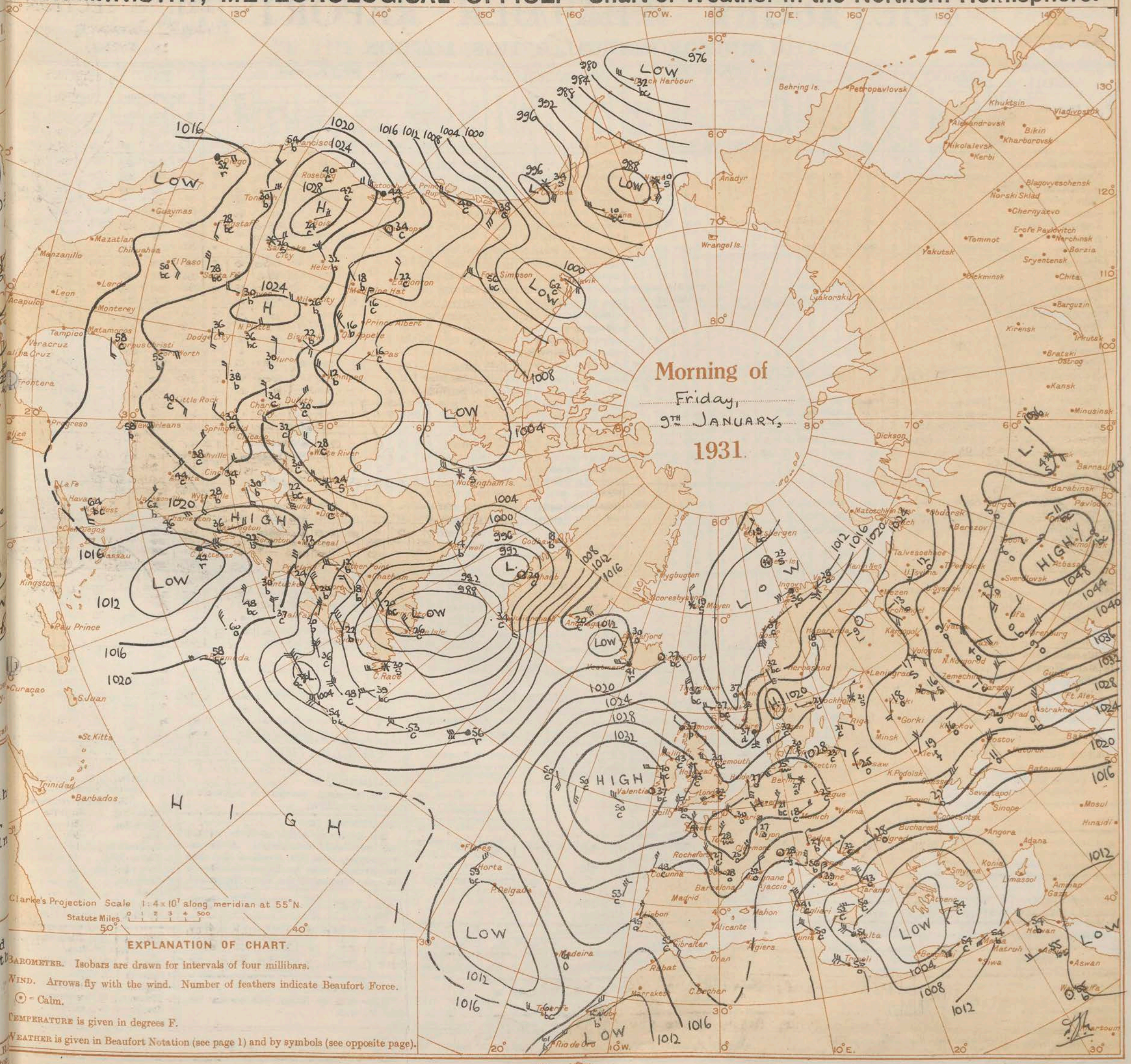
Fair in the South with night frost and local fog; becoming milder and cloudy in the North; some rain in Northwest Scotland.

Forecasts issued at 0945 G.M.T.

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

H.M. Stationery Office Press, Kingsway, W.C.2. No. 2438/2174. Wt. 28. D.E026. Gp. 804. W.7900. 1/31.

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 9th. January 1931.

No. 25250

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0–12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0–9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0–10 (12)	Cloud Amount Total 0–10 (13)	Height of Base (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1029·5	-10	SW	2	c/F	26	95	4	–	2	7	0	10	–
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, S'thmtn	8	1029·8	-12	WNW	1	F	26	95	0	5	–	–	10	10	<150
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1028·7	-10	NW'N	2	bcF	27	95	0	–	3	–	0	4-6	–
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	55	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1028·2	-16	SW'W	2	bc	32	85	6	7	–	–	2-3	2-3	4000
	Cranwell ...	240	1026·9	-8	WSW	3	ss	33	95	5	6	–	–	10	10	*
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1028·5	-10	NE'E	1	c	35	75	6	5	1	–	4-6	7-8	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1031·6	-6	–	0	bc	34	85	6	5	2	–	2-3	4-6	4000
	Scilly (St. Mary's)	163	1030·6	-10	W'S	2	b	40	85	8	–	–	–	0	0	–
	Guernsey ...	173	1028·2	-6	S	2	o	40	75	7	5	–	–	10	10	2500
6	Pembroke ...	142	1026·5	-14	WSW	4	rr	43	95	6	9	2	–	7-8	10	1500
7	Holyhead ...	26	1026·7	+2	NNE	5	c/r	44	75	7	5	3	9	2-3	9+	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	67	1025·5	-2	WSW	3	rf	34	95	3	5	–	–	10	10	220
	Tynemouth ...	29	1024·8	0	WNW	1	b	36	95	6	–	–	–	0	0	–
11	Inchkeith ...	190	1026·1	+6	W	2	b	32	95	8	–	3	–	0	1	–
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1024·7	+4	NW	2	c	38	85	7	3	7	–	4-6	9	4000
15	Dalwhinnie ...	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1022·1	+8	WNW	3	bc	35	95	8	8	7	–	2-3	4-6	2300
16	Lerwick ...	54	1016·9	+12	W'N	2	bc	38	85	7	4	–	–	2-3	2-3	1500
17	Blacksod Point	10	1031·2	+12	W	3	bc	41	75	8	8	–	–	4-6	4-6	2500
18	Malin Head ...	51	1028·9	+10	N	4	bc/pr	44	85	8	3	–	–	4-6	4-6	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1031·9	+26	N	2	bc	44	95	9	5	–	–	2-3	2-3	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 9th JANUARY — 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 8th Hrs. (36)
London (Kew)	1027·0	-10	–	0	s0s0	31	95	4	6	–	–	10	10	1500	8	*	34	27	27	Tr	Tr.	0·0
Croydon	1026·8	-18	WSW	3	c	32	75	6	5	7	–	2-3	10	4000	1	*	33	25	25	Tr	–	0·0
S. Farnborough	1027·2	-8	W	1	is0	31	95	5	5	–	–	10	10	1500	4	*	33	26	22	–	Tr.	0·6
Winchester	1027·5	-8	NW'N	1	is0	29	95	5	5	–	–	10	10	1500	8	*	31	23	17	Tr	0·3	0·7
Boscombe Down	1028·0	-10	–	0	of	28	95	3	5	–	–	10	10	450	6	*	29	20	18	0·1	0·2	*
Calshot, S'thmtn	1027·6	-10	NW'N	1	is0	30	95	3	5	–	–	10	10	2500	4	0	32	25	25	0·3	Tr.	0·0
Dungeness	*	*	NW	2	m	*	*	4	5	–	*	7-8	7-8	4000	*	1	39	24	*	–	–	*
Lympne	1027·0	-6	NW	3	z	27	95	5	–	3	7	0	9+	–	4	*	35	25	22	–	–	1·7
Shoeburyness	1026·5	-10	SSW	1	s0s0	33	95	6	6	–	–	10	10	800	6	*	35	28	26	0·1	Tr.	0·4
Felixstowe	1026·9	-8	SW	2	sf	32	95	3	6	–	–	10	10	450	8	2	36	28	23	Tr	0·2	0·6
Gorleston	1025·8	-14	SW'W	2	s0s0	32	95	5	6	–	–	10	10	800	8	2	35	30	27	Tr	Tr.	0·0
Cranwell	1026·9	+2	NW'N	4	m	33	95	4	5	–	6	1	4-6	4000	6	*	37	32	31	–	2	0·1
Cardington	1026·2	-16	W	3	id0	33	95	5	5	–	–	10	10	800	3	*	34	31	28	0·1	0·1	0·0
Birmingham	1027·5	+2	NW	3	m	33	95	4	5	–	–	9+	9+	800	7	*	38	31	30	–	1	0·6
Upper Heyford	1027·1	-8	W	1	m	32	95	4	8	–	–	10	10	800	6	*	36	28	27	–	0·2	
Leafield	1026·7	-6	NW'W	2	o	32	95	6	5	–	–	10	10	2500	6	*	35	26	25	–	1	2·2
Ross-on-Wye	1027·1	-4	W	1	z	32	95	5	5	–	–	9+	9+	2500	6	*	32	29	24	–	0·5	1·1
Portland Bill	1026·7	-16	NW'W	2	ir0	36	85	7	5	–	–	10	10	1500	1	2	38	33	*	–	Tr.	*
Plymouth	1027·7	-18	E	2	o/rs	34	85	5	6	–	–	10	10	1500	5	–	41	29	24	–	0·2	3·6
Falmouth	1027·9	+10	SW	3	c	40	95	7	5	3	–	4-6	9	4000	1	1	40	34	*	–	1	3·5
Scilly (St. Mary's)	1028·0	-14	NNE	5	c	40	95	8	7	–	–	7-8	7-8	4000	1	3	44	38	*	–	1	2·6
Guernsey	1027·2	-10	S	1	o	40	85	6	5	–	–	10	10	2500	0	3	44	39	32	–	–	0·0
Pembroke	1028·0	+6	N	4	c	40	85	8	8	7	9	4-6	9+	1500	1	2	42	39	*	–	1	0·0
Holyhead	1028·5	+12	NNE	5	c	43	75	8	4	–	8	Tr.	9+	2500	1	3	44	42	37	–	3	0·3
Chester (Sealand)	1027·8	+10	WNW	1	bc	34	95	6	–	3	1	0	4-6	–	5	*	35	34	26	Tr	1	0·0
L'pool (Bidston)	1028·1	+2	NW'N	3	bc	37	95	8	–	3	–	0	4-6	–	1	*	37	36	32	0·3	0·3	0·0
Harrogate	1026·7	+6	W'N	1	b	33	75	8	–	4	1	0	Tr.	–	4	*	36	32	25	Tr	0·2	0·0
Spurn Head	1024·1	-4	NW'N	4	bc	36	95	6	5	–	–	2-3	2-3	2500	1	3	41	33	*	–	2	2·7
Tynemouth	1025·7	+4	WNW	2	bc	34	85	6	2	–	–	4-6	4-6	2500	4	1	39	33	27	–	2	*
Inchkeith	1026·4	+2	W	3	bc	35	95	7	5	–	8	2-3	4-6	1500	0	1	42	31	31	0·2	–	0·6
Leuchars	1025·5	+2	W	4	bc	35	75	8	–	3	–	0	2-3	–	4	*	39	29	23	0·4	Tr.	0·2
Renfrew	1027·9	-2	WNW	2	bc	34	95	8	–	9	–	0	4-6	–	4	*	41	28	18	4	–	0·0
Eskdalemuir	1027·4	+2	NNW	3	b	32	85	8	–	4	9	0	1	–	5	*	37	27	21	1	2	0·0
Tiree	1027·8	-4	NNW	4	c/pr	43	85	8	3	3	–	7-8	10	1500	1	3	46	41	34	9	1	0·0
Stornoway	1024·9	+2	NW	1	pr	37	95	7	3	7	–	4-6	7-8	4000	2	1	46	36	*	9	2	0·3
Dalwhinnie	1026·5	-2	NW	3	c	34	85	7	5	–	–	7-8	7-8	1500	5	*	36	30	*	7	Tr.	0·0
Aberdeen	1024·5	+6	WNW	3	bc	36	85	7	–	3	–	0	2-3	–	4	1	40	35	29	2	0·1	0·3
Wick	1022·5	+6	WNW	2	prs	35	95	8	8	7	–	4-6	4-6	1500	5	2	40	34	*	3	2	*
Lerwick	1018·2	+6	W'N	2	bc	37	85	8	8	–	–	4-6	4-6	1500	1	*	43	33	*	1	1	1·8
Blacksod Point	1032·5	0	W	3	bc	40	75	8	–	7	–	0	4-6	–	0	3	48	38	*	3	0·1	*
Malin Head	1029·1	-2	NW	3	c	43	85	8	1	–	7	2-3	10	4000	0	2	45	40	*	4	0·2	0·0
Aldergrove	1030·6	0	SSE	2	c	32	95	6	–	7	–	0	7-8	–	4	*	37	28	22	2	0·1	0·0
Donaghadee	1028·0	+6	WNW	2	bc	37	75	7	5	2	–	4-6	4-6	2500	0	1	42	35	*	2	0·2	*
Birr Castle	1031·7	+2	SW	1	bc	28	85	8	–	4	–	0	4-6	–	4	*	41	28	21	0·5	0·1	1·9
Valentia Obsy.†	1033·0	+8	–	0	bc	37	85	8	7	4	–	4-6	4-6	2500	1	2	49	37	31	–	0·3	1·0
Roches Point	1030·9	+6	N	3	bc	37	95	8	5	–	–	2-3	2-3	1500	0	2	45	36	*	–	1	*

LONDON OBSERVATIONS.

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

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	cmofx	bfofx	[illegible]	34	27	27	Tr	Tr	0·0	*	*	
Croydon	217	offfx	offfx.	ofxcm	33	25	25	Tr		0·0	*	*	4
Greenwich (Royal Observatory)	149	ofx9	ogff	ffbxof	33	28	23	–	0·3	0·0	95	92	3
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park)	27	*	*	*	35	29	27	–		0·0	90	89	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	0·0	*	*	*
Camden Square	110	xof	of	*	34	30	26	–	0·3	*	*	92	*
Kensington Palace	80	ofo	bcmbcf	*	34	29	28	–	0·3	*	At 18h. 91	89	*
Hampstead Observatory	450	omofx	ofx	*	35	25	23	Tr	1	0·0	*	88	

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre. 24 hrs. ended 7h. G.M.T. 9th.

	Max.	Time.	Min.	Time.
South Kensington.	2·6	9h. 8th.	0·3	5h.-6h. 9th.
Kew Observatory.				

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 8th JANUARY Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 9th JANUARY Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1031·7	NE	2	o	31	1029·1	WNW	2	o	30	32	30	–	–
Brussels	1031·6	E	1	o	28	1028·4	SSE	2	c	25	30	21	–	–
Berlin						1028·3	WNW	2	is0	27		25		Tr.
Zürich	1028·0	E	1	o	27	1025·9	NE	1	o	25	30	26	–	–
Rome	1012·7	NNE	5	o	43	1013·3	NNE	3	c	39	46	39	Tr	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. 5 Very rough.
1 Smooth. 6 High.
2 Slight. 7 Very high.
3 Moderate. 8 Precipitous.
4 Rough. 9 Confused.

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

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 10th January 1931.

No. 25,251

OBSERVATIONS at 13h. G.M.T. 9th January

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)	1026.5	-8	N	3	bc	38	75	5	1	–	4	1	2-3	4000
	Croydon	1026.2	-2	NW	3	cf	35	95	2	5	3	–	7-8	9	800
	S. Farnborough	1026.7	+4	NW	2	z	39	75	5	1	3	–	1	1	4000
	Winchester	1027.0	-10	N	3	bc	37	85	6	–	–	8	0	2-3	–
	Boscombe Down	1027.8	-4	NNW	2	b	33	95	6	–	3	–	0	Tr	–
	Calshot, S'thmtn	1027.1	-6	NNW	4	z	37	85	5	–	8	–	0	2-3	–
	Dungeness	*	*	WNW	1	Ss	*	*	4	6	–	*	10	10	1500
	Lympne	1025.2	-14	NW'W	2	f	30	85	3	6	–	–	10	10	450
2	Shoeburyness	1025.7	-10	NNW	3	c	35	95	6	5	1	–	4-6	9	1500
	Felixstowe	1025.2	-10	NNW	2	o/s	34	95	4	6	–	–	10	10	450
	Gorleston	1024.4	-8	NW	2	cf-	34	95	3	5	8	–	4-6	7-8	1500
	Cranwell	1026.6	-6	NW	3	b	36	85	5	–	3	–	0	1	–
3	Cardington	1026.3	-8	N'W	3	b	39	75	5	–	–	1	0	1	–
	Birmingham	1028.2	-2	NNW	3	bcf	37	75	3	5	–	–	2-3	2-3	1500
	Upper Heyford	1027.6	+6	NW	3	z	36	75	5	–	–	–	0	0	–
	Leafield	1027.4	0	NW'N	3	z	34	85	5	–	–	–	0	0	–
4	Ross-on-Wye	1028.3	0	W'N	1	b	40	75	7	–	–	8	0	1	–
5	Portland Bill	1027.1	0	N	4	bc	39	85	6	5	4	–	2-3	4-6	1500
	Plymouth	1018.6	+2	NE	3	c	41	65	8	1	3	6	Tr	7-8	4000
	Falmouth	1030.3	+4	NE'N	4	bc	42	75	8	1	–	9	2-3	4-6	4000
	Scilly (St. Mary's)	1029.5	+6	NE	6	bc	46	75	8	1	–	8	2-3	4-6	4000
	Guernsey	1026.8	0	N	1	o	42	75	6	5	–	–	10	10	2500
6	Pembroke	1029.2	0	NNE	2	bc	45	75	8	1	4	1	4-6	4-6	2500
7	Holyhead	1029.4	-4	NW'N	5	c	44	85	8	1	3	9	2-3	9+	1500
	Chester (Sealand)	1028.4	-2	WNW	4	c	42	85	7	1	3	8	1	9	2500
8	L'pool (Bidston)	1028.5	0	WNW	3	c	41	85	9	5	–	–	7-8	7-8	2500
9	Harrogate	1026.8	0	W'N	3	c	41	65	8	–	9	–	0	7-8	–
10	Spurn Head	1025.3	0	NW'N	3	bc	38	85	6	–	2	9	0	4-6	–
	Tynemouth	1026.8	+4	WNW	2	bc	37	75	6	2	–	–	4-6	4-6	2500
11	Inchkeith	1026.5	+2	W	3	c	39	95	7	4	7	–	4-6	9	7200
	Leuchars	1026.2	-2	WNW	3	c	38	85	8	–	7	6	0	9+	–
12	Renfrew	1027.7	-4	W'N	1	c	40	95	7	6	2	–	Tr	9+	1500
	Eskdalemuir	1027.2	-4	NNW	4	c	37	85	8	5	7	–	9+	9+	1500
13A	Tiree	1027.9	-2	NW'W	4	c/r	44	85	8	6	2	–	7-8	10	1500
13B	Stornoway	1026.8	-2	WNW	2	roro	40	95	8	6	2	–	4-6	10	4000
15	Dalwhinnie	1026.9	+4	NNW	3	c	37	85	8	5	–	–	7-8	7-8	2500
	Aberdeen	1025.1	+2	WNW	3	c	39	85	7	8	3	9	4-6	7-8	2500
	Wick	1024.2	+8	W	2	ir	37	95	8	8	4	–	4-6	7-8	1500
16	Lerwick	1020.4	0	NW	2	o/pro	39	85	8	8	6	–	4-6	7-8	1500
17	Blacksod Point	1032.6	+6	WNW	3	bc	46	65	9	8	–	–	4-6	4-6	4000
18	Malin Head	1029.4	-2	NW	3	c/ro	45	95	8	6	1	–	7-8	10	2500
	Aldergrove	1030.8	0	SW'S	2	c	37	95	7	–	7	–	0	9	–
	Donaghadee	1029.5	0	WNW	2	c	40	85	7	5	–	–	7-8	7-8	2500
19	Birr Castle	1032.8	0	NW	1	c	40	85	8	–	3	9	–	7-8	–
20	Valentia Obsy.	1034.1	+2	–	0	bc	43	85	8	7	–	1	2-3	4-6	2500
	Roches Point	1033.0	+6	N	3	bc	42	85	8	5	–	–	2-3	2-3	1500

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

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)	1027.5	+10	NW	1	m	35	75	4	–	–	–	0	0	–	6	*
Croydon	1026.9	+6	WNW	2	bf-	34	85	3	–	–	–	0	0	–	5	*
S. Farnborough	1027.3	+4	NW	2	m	34	85	4	–	–	–	0	0	–	4	*
Winchester	1028.3	+6	NNW	3	z	33	75	5	–	–	–	0	0	–	4	*
Boscombe Down	1028.1	+10	N	4	z	32	95	6	5	–	–	Tr	Tr	2500	6	*
Calshot, S'thmtn	1028.8	+16	NW'N	4	z	36	85	6	–	–	–	0	0	–	4	1
Dungeness	*	*	NW	3	zm	*	*	45	5	–	*	4-6	4-6	2500	*	2
Lympne	1025.5	+10	N'W	4	z	34	85	6	–	–	–	0	0	–	6	*
Shoeburyness	1026.4	+6	NNW	2	b	34	95	7	–	–	–	0	0	–	4	*
Felixstowe	1026.0	+6	NNW	3	z	34	95	6	–	–	–	0	0	–	1	2
Gorleston	1025.4	+8	NNW	3	bc	36	95	6	9	–	–	4-6	4-6	1500	7	2
Cranwell	1027.4	+4	NW	3	m	34	85	4	–	3	–	0	4-6	–	6	*
Cardington	1027.4	+2	NW	2	z	32	85	5	–	–	–	0	0	–	1	*
Birmingham	1028.5	+2	NW	3	m	37	95	4	–	3	–	0	9	–	3	*
Upper Heyford	1028.4	+6	NW	3	m	33	85	4	–	–	4	0	4-6	–	6	*
Leafield	1027.9	0	NNW	3	b	32	95	6	[–]	3	–	[0]	1	[–]	6	*
Ross-on-Wye	1028.5	+4	W	2	bc	35	75	6	–	7	1	0	2-3	–	6	*
Portland Bill	1027.6	+6	N	4	bc	38	75	6	4	4	–	2-3	2-3	2500	1	2
Plymouth	1029.8	+8	N	4	b	39	75	7	–	4	1	0	Tr	–	1	0
Falmouth	1031.7	+8	N'W	3	bc	39	75	7	5	–	6	2-3	4-6	1500	0	1
Scilly (St. Mary's)	1031.2	+10	NE'N	5	bc	44	85	8	2	–	–	2-3	2-3	4000	0	3
Guernsey	1027.8	+14	NNE	2	bc	41	65	6	5	–	–	4-6	4-6	2500	1	3
Pembroke	1029.6	+4	NNW	2	bc	41	85	8	4	4	–	4-6	4-6	2500	0	1
Holyhead	1029.7	+2	NNW	5	iro	43	95	7	6	2	–	9	10	1500	1	3
Chester (Sealand)	1028.2	+2	NW'W	3	iro	39	95	7	6	–	–	7-8	7-8	1500	1	*
L'pool (Bidston)	1028.5	0	WNW	4	roro	41	95	8	6	–	–	10	10	2500	1	*
Harrogate	1027.6	0	W	1	b	36	95	7	–	4	–	0	Tr	–	4	*
Spurn Head	1025.5	0	NW'N	4	bc	38	95	6	5	–	–	4-6	4-6	800	0	3
Tynemouth	1027.0	+2	W	2	bc	35	95	6	5	–	–	2-3	2-3	1500	4	1
Inchkeith	1027.6	+4	W	2	c	39	95	6	5	2	–	2-3	9+	800	0	1
Leuchars	1026.3	+2	W	2	c	37	85	8	–	7	–	0	9+	–	4	*
Renfrew	1027.3	-2	ESE	1	o	38	95	6	5	–	–	10	10	2500	1	*
Eskdalemuir	1027.8	+2	NW	2	c	36	95	7	5	–	–	9+	9+	1500	1	*
Tiree	1027.7	0	WNW	2	iD	43	95	7	5	2	–	4-6	10	1500	1	2
Stornoway	1024.6	-6	WSW	2	c	41	95	8	3	2	–	4-6	9+	4000	2	1
Dalwhinnie	1026.6	+2	SSE	2	c	36	85	8	5	–	–	7-8	7-8	2500	1	*
Aberdeen	1025.5	+2	W	1	b/pr	37	85	7	5	4	–	Tr	Tr	4000	5	1
Wick	1023.6	-4	W	2	bc	37	95	8	8	6	–	2-3	4-6	2500	1	2
Lerwick	1020.3	0	W'S	2	bc	38	75	7	5	–	–	4-6	4-6	1500	1	*
Blacksod Point	1031.8	-2	W	4	c	45	75	7	8	–	–	9+	9+	450	0	3
Malin Head	1029.2	+4	NW	3	iro	45	95	6	6	2	–	4-6	10	1500	1	1
Aldergrove	1030.4	+2	SW	2	iro	38	95	7	5	2	–	7-8	10	4000	1	*
Donaghadee	1029.4	0	W	2	ido	40	85	7	5	–	–	9	9	800	1	1
Birr Castle	1033.1	+2	NW	1	c	37	95	8	–	1	–	0	7-8	–	1	*
Valentia Obsy.	1034.1	+6	–	0	bc	38	95	8	7	3	1	1	2-3	2500	1	2
Roches Point	1031.0	-6	N	3	bc	41	85	8	5	–	–	4-6	4-6	1500	0	2

PAST 24 HOURS. WEATHER.

Stations	7h.–13h. 9th (37)	13h.–18h. 9th (38)	18h. 9th to 1h. 10th (39)	1h.–7h. 10th (40)
London (Kew)	OSoombmo	bmobm	bmofx	ofx
Croydon	OSoSomcff	cbcbff	bffmx	bmofx
S. Farnborough	o1Soocbcmo	bcmzom	bmofx	offx
Winchester	oSmocbmo	bmo	bmo	ffbmcm
Boscombe Down	offsocmobmo	bmo	bmoomo	omo
Calshot, S'thmtn	bfx1socmx	bmo	bmox	bbccmox
Dungeness	s	bc	*	z
Lympne	ossof	ofpsobc	bmom	bmwf
Shoeburyness	osoffcmo	bcmo	bmx	bmx
Felixstowe	ossf o1soos(m)	oproobmo	bmox	bmox
Gorleston	ossrof	cfmorobc	bcorobc	bcmomox
Cranwell	bcabmo	bcbcm	bcmbfx	bbcfx
Cardington	odomobmo	bm	bmox	bmoxfx
Birmingham	cmbm	bccm	cmpro	cmff
Upper Heyford	cbcxbm	bbcm	bcmof	offfe
Leafield	cmbc	bbc	bxbz	ffoff
Ross-on-Wye	czobbzo	bbcb	bcc	c
Portland Bill	irobczo	bczo	bcc	c
Plymouth	bmofbcmo	bcb	b	bwc
Falmouth	cbcmo	bc	bcc	coiro
Scilly (St. Mary's)	cpobc	bc	bcpbc	bcc
Guernsey	ododo	ocbc	bcbbc	coid
Pembroke	cbc	bcpo	bcc	c
Holyhead	cbcphroc	cpro	ropor	c
Chester (Sealand)	bcmo	cromo	roc	cro,c
L'pool (Bidston)	bbccv	oror	oiror	opocv
Harrogate	bbc	bcb	b	bbcc
Spurn Head	cc	bc	bcx	bcx
Tynemouth	bc	bc	bc	bcoiro
Inchkeith	bcc	c	bcmmmmoo	coroiro
Leuchars	bccxc	c	cxc	ciro,c
Renfrew	bcxcc	comom	omo	o,roo
Eskdalemuir	bcxc	cproc	cpr	c
Tiree	cprir	irodo	idopr	proid
Stornoway	oror	oiro	oiro,c	c
Dalwhinnie	c	c	c	cpro
Aberdeen	bc	cprob	bbcc	ciro
Wick	bcirc	cirbc	cddo	oddiroo
Lerwick	bccpro	cbc	bccir	ciroroo
Blacksod Point	bc	c	c	c
Malin Head	ciro	cromo	crmbcpr	bcprocdom
Aldergrove	cxroboc	cciro	cirobcbmox	xmobbcc
Donaghadee	bcc	cido	cidoc	c
Birr Castle	bcc	c b	c	cbcx
Valentia Obsy.	bccbc	bccxc	bcc	cpro
Roches Point	bccbc	bc	bccw	cw

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.
m, mist, " 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
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. Ф, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"t r" signifies a small amount of cloud (trace) covering less than $\frac{1}{20}$ 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.

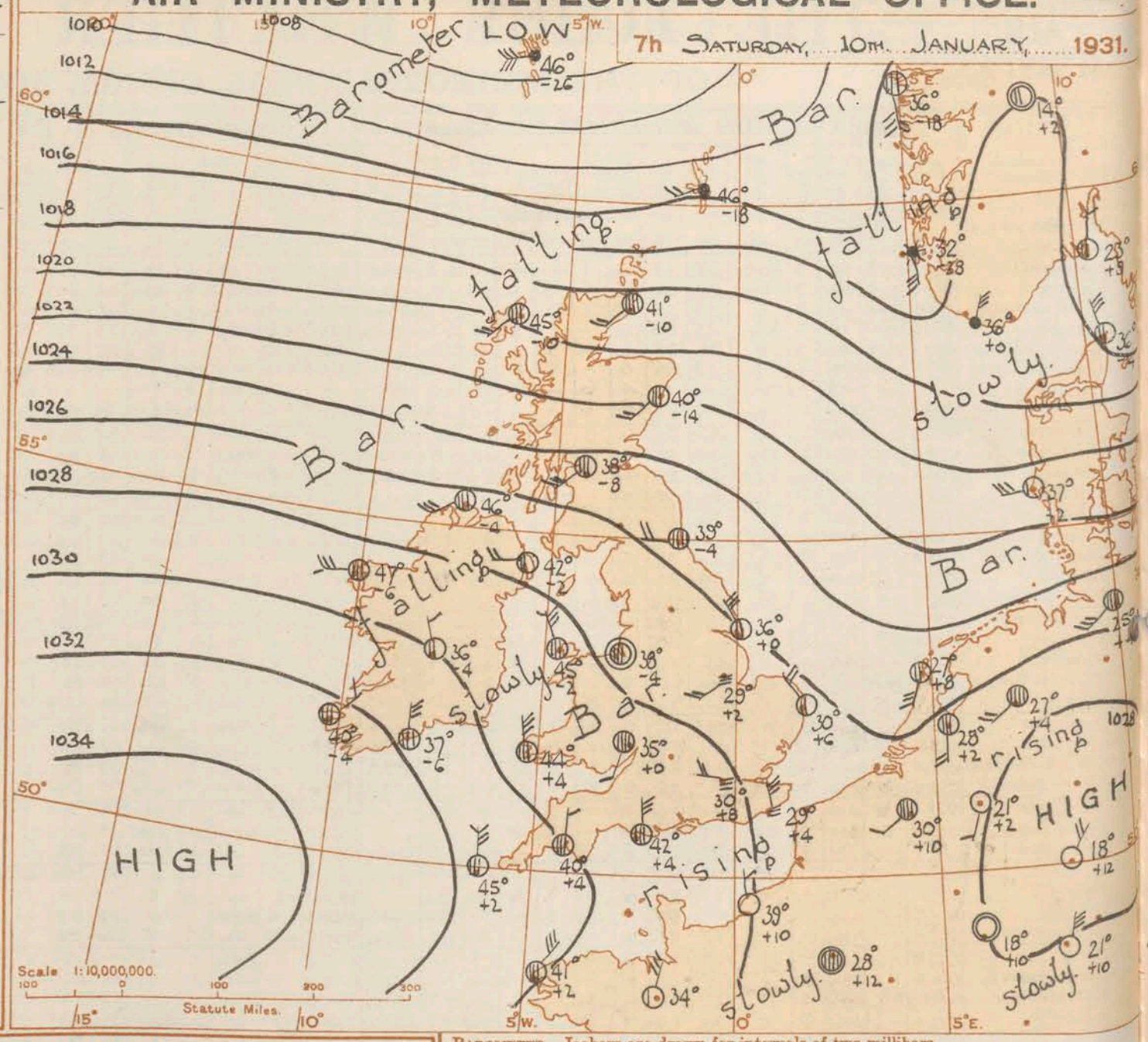
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 9th JANUARY 1931.

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.	omo	oc	23	37	Trace	–	0.6
	Bournemouth	mbc	b	23	38	0·3	–	4·0
	Ventnor ...	xrsoz	obz	32	38	–	–	2.5
	Southsea ...	s.oc	b	25	38	–	–	2·5
	Bognor Regis	scbc	b	25	39	0·3	–	2·6
	Littlehampton	os.c	cbcb	24	39	0·1	0·1	2·6
	Worthing ...	o	cbc	27	38	Trace	–	2·1
	Brighton ...	s.o	ocbc	27	37	Trace	Trace	1.4
	Eastbourne†	o	ocb	26	36	–	–	0.0
	Hastings† ...	os.s.	ocbc	31	37	–	0·3	0·0
	Folkestone ...	xoisf	oiscm	31	37	Trace	1	0.0
	Dover... ...	oissh	ir.c	32	38	0·3	0·3	0.0
	Deal	so	o	30	37	–	0·3	0.0
	Ramsgate ...	o	o	29	40	0.4	–	0.0
	Margate ...	crs	c	29	40	Trace	Trace	0.0
2	Southend ...	osf	bcbm	29	36	0·2	0·2	0.6
	Maldon ...	s.om	cb	29	38	0·3	Trace	1.7
	Clacton-on-Sea	oprsc	cbc	27	37	Trace	0.4	1.1
	Dovercourt ...	socrs	bv	27	37	1	1	0.9
	Lowestoft ...	ososc	cdbcc	28	36	2	3	1·0
	Skegness ...	fscm.	m.c	31	39	0·2	Trace	5·5
	Mablethorpe	bcm.	bcm.	32	38	–	–	5.0
	Cleethorpes ...	xcb	b	32	39	–	–	4.6
3	Leamington S.	c	c	29	39	–	–	3.3
4	Cheltenham†	omcb	bcof	28	38	0·5	–	5·0
5	Bath	mcbcb	b	23	39	Trace	–	4·4
	Weymouth ...	fbcb	b	25	39	0·2	–	5·2
	Jersey ...	cf	pc	37	42	–	Trace	0.0
	Torquay ...	rsombc	bm.	29	42	Trace	–	4·6
	Penzance ...	cb	b	31	47	3	–	4·2
	St. Ives ...	rody	c	34	45	1	–	3.6
	Bude	xcbc	bcb	27	43	0.4	–	5.2
	Ilfracombe ...	bcb	bcbz	32	43	0·1	–	4.7
6	Aberystwyth	cprbx	bcc	32	42	2	–	5·3
7	Llandudno ...	bbcc	cir.c	36	45	1	0·2	2·9
	Colwyn Bay...	cbcc	cbcd	36	44	0·3	Trace	2·8
	Rhyl	bbc	bccd.	33	44	0·2	0·1	3.7
8	Wallasey ...	bbc	bcro	32	43	1	1	4·2
	Southport‖ ...	bbcc	coro	30	41	1	1	2·0
	Blackpool ...	bcc	cp	30	42	3	0·3	2.4
	Morecambe ...	rombc	bbccc	29	40	3	0·5	1·4
9	Ilkley... ...	bbc	bc	29	40	1	–	2.4
10	Berwick-on-T.	bc	bcco	31	41	1	–	3·2
11	Dunbar ...	bcm.	cm.	33	38	Trace	–	1·7
12	Douglas ...	xbccbc	rom.	34	43	3	1	0.9

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



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 10th Jan. 1931.

Districts.	Forecasts
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Wind northerly or variable, light; variable amount of cloud; some fog; rather cold; probably night frost.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind northerly to westerly, light or moderate; mainly cloudy; perhaps occasional drizzle or rain locally; moderate temperature.
9. N. Midlands 10. N.E. England 11. S.E. Scotland	Wind westerly, light or moderate; mainly cloudy; temperature rising somewhat.
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 westerly, moderate, fresh locally; mainly cloudy; occasional drizzle or rain; moderate temperature.
19. S.E. Ireland 20. S.W. Ireland	Wind northwest or west, moderate; mainly cloudy; perhaps occasional local drizzle or rain; temperature rising somewhat.

GENERAL INFERENCE.

From an anticyclone off our southwest coasts a belt of high pressure extends across France and Germany, A depression north of the Faroes will move eastwards. In the North and West weather will be cloudy with moderate temperature and probably occasional drizzle or rain, but in the Southeast conditions will remain rather cold and, apart from fog, mainly fair.

FURTHER OUTLOOK.

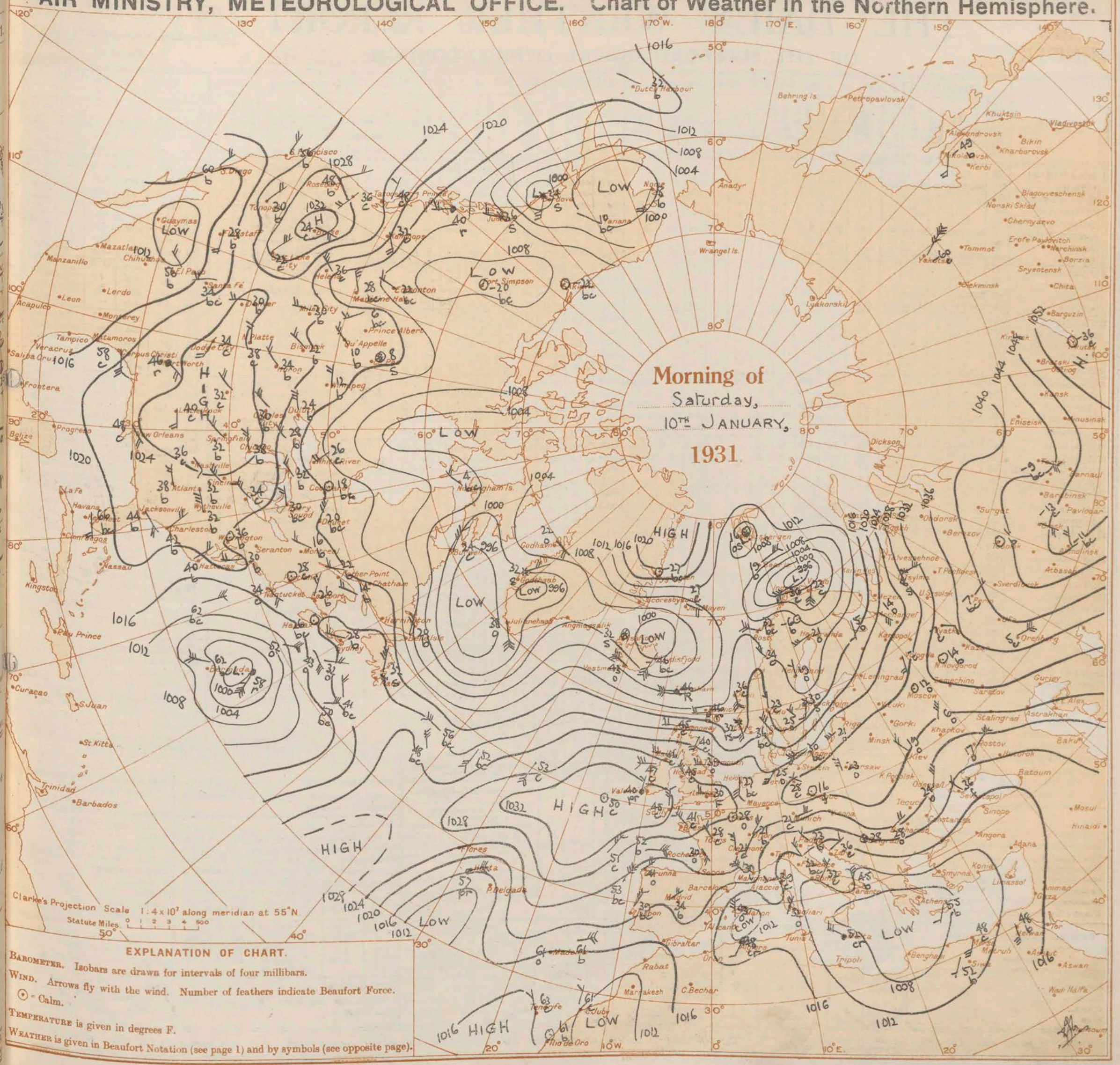
Probably similar.

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. Pk. 2438/2174. 26. 0.5026. Gp. 908.

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

TEMPERATURE is given in degrees F.

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

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 10th January 1931.

No. 25,251

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

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	1027.6	+2	WNW	2	m	29	95	+	-	3	-	0	1	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1027.9	-2	NW'N	4	m₀	33	85	6	-	-	-	0	0	-
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1026.3	+2	NW'N	3	m	29	85	4	-	-	1	0	Tr.	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	55	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1026.1	+8	WNW	2	b	34	95	7	7	-	-	1	1	4000
	Cranwell ...	240	1027.6	+2	WNW	3	bf	30	95	2	-	-	-	0	0	-
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1027.9	-6	N'W	4	c	41	85	7	4	7	-	4-6	9	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1031.5	0	NNE	3	c	40	85	7	5	-	-	9	9	4000
	Scilly (St. Mary's)	163	1032.0	0	N'E	4	bc	44	95	8	2	-	-	4-6	4-6	4000
	Guernsey ...	173	1028.3	-2	N	2	c	44	75	7	5	-	-	7-8	7-8	2500
6	Pembroke ...	142	1030.2	0	NNW	3	c	44	85	8	8	1	-	4-6	7-8	2500
7	Holyhead ...	26	1028.5	-6	NW	5	c	45	95	7	5	-	-	9	9	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	67	1025.9	0	NW	3	bc	36	95	6	5	-	-	2-3	2-3	1500
	Tynemouth ...	29	1026.9	-2	WNW	2	bc	35	95	7	2	-	-	4-6	4-6	2500
11	Inchkeith ...	190	1026.1	-12	SW	3	c	39	96	6	5	1	-	9	10	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1021.9	-14	WNW	3	c	44	96	7	4	-	-	10	10	4000
15	Dalwhinnie ...	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1021.4	+20	WSW	3	dd	40	95	8	6	-	-	10	10	1500
16	Lerwick ...	54	1016.4	-20	W	2	ir₀	43	95	7	8	2	-	4-6	9+	1500
17	Blacksod Point	10	1031.1	-6	W	4	c	46	85	7	-	1	-	0	9+	-
18	Malin Head ...	51	1027.8	-4	WNW	3	bc/pr	45	95	7	8	9	-	4-6	4-6	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1033.0	0	W	2	id₀	45	85	9	6	-	-	7-8	7-8	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1029.0	+8	W'N	1	F	31	95	1	5	-	-	10	10	<150	4	*
Croydon	1028.6	+8	W	2	oF-	30	95	1	5	-	-	10	10	<150	5	*
S. Farnborough	1029.2	+4	NW	2	f	33	95	3	5	-	-	10	10	<150	4	*
Winchester	1029.3	+4	NNW	2	c	35	95	6	5	-	-	10	10	2500	4	*
Boscombe Down	1029.0	0	-	0	z	35	95	6	5	-	-	10	10	800	6	*
Calshot, (S'thmtn)	1028.8	+6	N	2	c	35	85	6	5	-	-	10	10	1500	1	1
Dungeness	*	*	NW	3	m	*	*	4	5	-	*	4-6	4-6	2500	*	1
Lympne	1027.5	+4	NNW	3	bf	29	95	3	5	-	-	Tr.	Tr.	800	6	*
Shoeburyness	1028.2	+6	WNW	1	m	30	95	4	-	-	-	0	0	-	4	*
Felixstowe	1027.8	+6	NW	2	z	30	95	5	-	-	-	0	0	-	4	1
Gorleston	1027.1	+6	NW'W	2	bc	30	95	5	5	-	-	4-6	4-6	1500	5	2
Cranwell	1027.8	+2	W'S	2	bcf	29	95	2	5	3	-	1	4-6	7200	6	*
Cardington	1028.4	+2	W	2	f	30	95	2	5	-	-	10	10	<150	4	*
Birmingham	1028.3	0	WNW	1	F	38	95	1	5	-	-	10	10	<150	3	*
Upper Heyford	1029.1	+2	W	2	F	34	95	1	5	-	-	10	10	<150	6	*
Leafield	1028.4	0	WNW	2	F	35	95	1	5	-	-	10	10	<150	3	*
Ross-on-Wye	1028.8	0	SSW	1	c	35	95	6	5	-	-	10	10	2500	1	*
Portland Bill	1028.4	+4	N'W	3	c	42	85	8	4	-	-	9	9	2500	1	2
Plymouth	1030.1	+6	N	1	c	40	96	8	1	6	-	1	7-8	4000	1	0
Falmouth	1031.8	+2	N	3	ro	43	85	7	8	2	-	7-8	10	2500	1	1
Scilly (St. Mary's)	1032.1	+2	N	4	c	45	85	8	8	-	-	7-8	7-8	4000	0	3
Guernsey	1028.2	+2	NNE	1	id₀	44	95	7	6	-	-	10	10	1500	1	3
Pembroke	1028.9	+4	NNW	3	c	44	85	8	9	1	-	4-6	7-8	2500	0	1
Holyhead	1028.4	-2	NW'W	4	c	45	95	8	5	3	-	7-8	9+	1500	1	2
Chester (Sealand)	1027.3	-4	-	0	c	38	95	7	5	2	-	4-6	10	2500	1	*
L'pool (Bidston)	1028.0	0	W'S	2	o	42	95	9	5	-	-	10	10	2500	1	*
Harrogate	1027.1	0	SW	2	c	36	95	7	5	-	-	9+	9+	2500	4	*
Spurn Head	1026.4	0	NW	3	bc	36	95	6	5	-	-	4-6	4-6	1500	4	3
Tynemouth	1025.3	-4	W	2	o/r	39	95	7	6	-	-	10	10	1500	1	2
Inchkeith	1024.7	-4	SW	3	o	41	95	7	5	-	-	10	10	800	0	1
Leuchars	1023.0	-10	SW	3	ro	37	95	7	6	2	-	4-6	10	1500	1	*
Renfrew	1025.2	-8	WSW	3	c	43	95	6	5	2	-	9+	10	1500	1	*
Eskdalemuir	1026.1	-4	S	2	c	37	95	7	5	-	-	10	10	1500	1	*
Tiree	1024.6	-6	W'N	3	c/d	45	95	8	5	9	-	2-3	9+	1500	1	2
Stornoway	1020.6	-10	W	2	c	45	95	7	8	-	-	9+	9+	4000	1	2
Dalwhinnie	1022.9	-8	W	3	c	41	95	7	5	-	-	7-8	7-8	1500	1	*
Aberdeen	1021.2	-14	SW	2	c	40	85	6	5	-	-	9+	9+	4000	5	1
Wick	1018.7	-10	WSW	2	o	41	95	8	6	-	-	10	10	1500	1	2
Lerwick	1012.4	-18	W	2	ro/ro	46	95	7	6	-	-	10	10	1500	2	*
Blacksod Point	1029.4	-6	W	4	c	47	95	7	-	5	-	0	9+	-	0	3
Malin Head	1026.4	-4	W	3	c/d	46	95	7	6	6	-	4-6	7-8	800	1	2
Aldergrove	1028.8	0	S	3	c	38	95	7	5	7	-	7-8	9+	800	1	*
Donaghadee	1027.5	-2	W	2	c	42	85	7	5	-	-	9	9	1500	1	1
Birr Castle	1030.7	-4	NW	1	bc	36	95	8	-	3	-	0	2-3	-	1	*
Valentia Obsy.†	1032.4	-4	NE'N	1	c/pr-	40	95	8	5	-	-	9+	9+	2500	1	2
Roches Point	1032.3	-6	N	3	c	37	95	8	5	-	-	7-8	7-8	2500	0	2

PAST 24 HOURS.

Stations	Temperature Max. Day 7h-18h °F. (31)	Temperature Min. Night 18h-7h °F. (32)	Min. on Grass °F. (33)	Rainfall Day 7h-18h mm. (34)	Rainfall Night 18h-7h mm. (35)	Sunshine 9th Hrs. (36)
London (Kew)	40	28	19	0.2	Tr.	3.2
Croydon	38	27	24	0.4	-	0.0
S. Farnborough	40	27	17	Tr	Tr.	3.7
Winchester	37	30	25	0.3	0.1	3.4
Boscombe Down	34	32	30	Tr	-	*
Calshot, (S'thmtn)	39	31	28	Tr	-	2.8
Dungeness	34	25	*	0.1	-	*
Lympne	34	28	23	0.6	Tr.	0.0
Shoeburyness	37	28	24	0.3	-	0.8
Felixstowe	36	29	25	1	Tr.	0.7
Gorleston	37	30	28	3	Tr.	0.0
Cranwell	36	28	24	—	-	5.7
Cardington	39	25	21	0.2	-	4.1
Birmingham	38	36	33	—	0.2	4.1
Upper Heyford	37	31	28	—	0.1	*
Leafield	35	29	25	—	-	3.8
Ross-on-Wye	41	35	28	—	-	6.0
Portland Bill	40	35	*	Tr	-	*
Plymouth	43	36	31	—	-	4.9
Falmouth	44	38	*	—	Tr.	4.8
Scilly (St. Mary's)	46	42	*	0.1	Tr.	5.0
Guernsey	43	40	31	1	0.2	0.6
Pembroke	46	40	*	—	-	3.9
Holyhead	45	43	41	0.1	0.4	2.0
Chester (Sealand)	42	38	34	0.5	1	4.1
L'pool (Bidston)	42	39	37	1	0.5	3.7
Harrogate	41	33	27	—	-	2.8
Spurn Head	39	34	*	—	-	4.6
Tynemouth	39	35	30	—	0.4	*
Inchkeith	41	38	36	—	0.4	2.6
Leuchars	40	34	31	—	0.2	1.7
Renfrew	40	37	32	—	0.2	0.2
Eskdalemuir	38	35	31	Tr.	6	0.6
Tiree	45	43	40	2	2	0.0
Stornoway	42	40	*	1	0.6	0.0
Dalwhinnie	37	35	*	—	0.4	0.0
Aberdeen	39	34	27	Tr	0.3	1.9
Wick	38	35	*	0.5	1	*
Lerwick	39	37	*	Tr	6	0.7
Blacksod Point	47	43	*	—	-	*
Malin Head	45	44	*	1	1	0.0
Aldergrove	40	36	31	0.2	Tr.	0.0
Donaghadee	42	40	*	Tr	0.2	*
Birr Castle	41	34	28	—	-	4.7
Valentia Obsy.†	46	35	33	—	Tr.	3.8
Roches Point	45	36	*	—	Tr.	*

LONDON OBSERVATIONS.

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

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	as₀cmbm	bm₀bm	bmofx	40	28	19	0.2	Tr.	3.2	•	•	1
Croydon ...	217	as₀bmcff	cbcbff	bffmxoff	38	27	24	0.4	-	0.0	•	•	1
Greenwich (Royal Observatory) ...	149	ofgcm	bm	bmoff	38	27	16	-	Tr.	0.0	75	100	1
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•	0.8	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	41	28	24	-	-		69	96	•
Regents Pk. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•		•	•	•
Camden Square ...	110	ofb	b	•	38	30	20	-	-	•	•	97	•
Kensington Palace ...	80	ombc	bm	•	39	29	22	-	-	•	At 18h. 76	89	•
Hampstead Observatory ...	450	ofb	bmx	•	38	26	18	Tr.	Tr.	3.0	•	94	•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

	Max.	Time.	Min.	Time.
South Kensington.	1.8	9h.9m	0.3	6h.10m
Kew Observatory.	DEFECTIVE RECORD			

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 9th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 10th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	1026.9	SW	1	bm	30	1028.2	E	1	o	32	30	30	0.1	0.3
Brussels ...	1025.6	-	0	c	28	1027.4	SW	1	o	30	28	27	-	-
Berlin ...						1027.6	WNW	1	m	28		27		-
Zürich ...	1024.3	S	1	bobo	23	1024.3	SE	1	bobo	23	25	21	-	0.2
Rome ...	1013.5	NNE	3	c	39	1013.0	NNE	2	c	32	46	30	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.

The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.

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

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.

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Sunday, 11th January 1931.
No. 25252

OBSERVATIONS at 13h. G.M.T. 10th January

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)	1029.3	-6	SW	1	f	34	95	2	-	-	-	10	10	<150
	Croydon	1029.3	-4	WSW	2	F	32	95	1	-	-	-	10	10	<150
	S. Farnborough	1029.0	-6	WNW	1	f	37	95	3	-	-	-	10	10	<150
	Winchester	1029.4	-6	SW	1	c	38	95	6	5	-	-	10	10	800
	Boscombe Down	1029.6	-2	W'N	2	o	39	95	6	5	-	-	10	10	4000
	Calshot, S'thmtn	1029.7	-2	WNW	1	z	39	85	5	5	7	-	4-6	10	1500
	Dungeness	*	*	NW	3	≠F	*	*	1	5	-	-	10	10	<150
	Lympne	1028.1	-8	NNW	3	f	32	95	2	-	-	-	0	0	-
2	Shoeburyness	1028.6	0	W'N	2	f	31	95	2	5	-	-	10	10	<150
	Felixstowe	1028.2	-6	W	2	m	37	85	4	-	-	1	0	2.3	-
	Gorleston	1027.6	-6	W'S	2	bc	37	95	5	-	6	-	0	2.3	-
	Cranwell	1027.1	-8	WSW	3	f	37	95	2	5	3	9	2.3	9	2500
3	Cardington	1028.3	-10	W'S	3	m	36	95	4	-	-	-	10	10	<150
	Birmingham	1028.3	-4	WNW	2	m	41	95	4	5	2	-	2.3	4-6	1500
	Upper Heyford	1028.9	-6	SSW	1	f	37	95	3	5	-	-	10	10	1500
	Leafield	1028.3	-6	WSW	2	c	37	95	6	5	-	-	9+	9+	4000
4	Ross-on-Wye	1028.2	-4	SW'S	2	c	42	85	7	5	7	-	1	9+	2500
5	Portland Bill	1028.4	-2	N'W	2	c	45	85	7	4	7	-	4-6	9	2500
	Plymouth	1030.4	-6	NNE	3	bc	46	75	8	7	3	1	4-6	4-6	4000
	Falmouth	1032.5 [6]	+4	NW'W	3	c	47	75	8	3	3	-	4-6	7-8	4000
	Scilly (St. Mary's)	1032.0	-2	NW	4	bc	47	85	8	2	-	-	4-6	4-6	4000
	Guernsey	1029.3	+4	-	0	c	45	85	7	5	-	-	7-8	7-8	1500
6	Pembroke	1029.9	0	NW	3	c	46	85	8	8	8	-	2.3	7-8	2500
7	Holyhead	1028.0	-6	WNW	4	c	46	95	8	5	3	-	9+	9+	800
	Chester (Sealand)	1027.5	-6	W	3	c	44	85	7	5	-	9	4-6	7-8	2500
8	L'pool (Bidston)	1027.4	-6	WSW	4	c	43	95	8	8	-	-	9+	9+	2500
9	Harrogate	1025.0	-6	SW	3	bc	42	95	7	6	8	-	1	4-6	2500
10	Spurn Head	1025.7	-4	W	2	m	40	95	4	5	7	-	4-6	9+	220
	Tynemouth	1023.2	-16	W	3	c	44	85	6	4	-	-	7-8	7-8	2500
11	Inchkeith	1022.7	-6	WSW	3	bc	45	95	7	5	8	-	2.3	4-6	2500
	Leuchars	1020.9	-10	WSW	3	c	47	75	8	5	7	1	2.3	7-8	5700
12	Renfrew	1023.5	-8	W	3	ir₀	46	95	7	8	-	-	9+	9+	2500
	Eskdalemuir	1023.5	-14	WNW	4	bc	44	85	7	5	-	-	4-6	4-6	1500
13A	Tiree	1023.3	-12	WSW	4	c	48	95	6	5	7	-	Tr	10	1500
13B	Stornoway	1017.9	-14	WSW	4	c	48	95	8	6	1	-	7-8	9	4000
15	Dalwhinnie	1021.7	-8	NNW	5	c	42	85	8	5	1	-	4-6	7-8	4000
	Aberdeen	1018.9	-10	W	3	c	46	75	7	5	4	9	7-8	9	4000
	Wick	1016.4	-12	WSW	3	c	44	95	8	9	-	-	9	9	1500
16	Lerwick	1008.1	-18	W'N	3	r₀r₀	47	95	6	6	-	-	10	10	800
17	Blacksod Point	1029.8	-4	W	4	c	48	85	8	4	-	-	9+	9+	<150
18	Malin Head	1025.6	-6	W	3	ir₀	46	95	5	6	2	-	9	10	800
	Aldergrove	1027.7	-2	SW'W	4	c	43	95	7	5	3	-	9	9+	2500
	Donaghadee	1026.4	-6	W	1	c	44	95	7	5	2	-	4-6	7-8	1500
19	Birr Castle	1030.7	-2	SW	1	bc	44	95	8	5	-	-	4-6	4-6	4000
20	Valentia Obsy.	1032.4	-4	NE'N	1	c/pr	47	95	7	5	-	-	10	10	800
	Roches Point	1032.2	-10	N	1	c	45	85	8	5	-	-	9	9	2500

OBSERVATIONS at 18h. G.M.T. 10th January

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours (16)	Wind Direc. (17)	Wind Force 0-12 (18)	Weather (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud Form Low (23)	Cloud Form Med. (24)	Cloud Form High (25)	Cloud Amount Low 0-10 (26)	Cloud Amount Total 0-10 (27)	Height of Base (feet) (28)	State of Ground 0-9 (29)	Sea 0-9 (30)
1	London (Kew)	1029.3	0	SW	2	f/d₀	37	95	3	6	-	-	10	10	1500	1	*
	Croydon	1029.1	+6	SW'W	3	m	37	95	4	5	-	-	10	10	220	1	*
	S. Farnborough	1029.4	+4	WSW	1	m	38	95	4	5	-	-	10	10	1500	4+	*
	Winchester	1029.8	+6	S	1	z	37	95	5	5	-	-	9	9	2500	1	*
	Boscombe Down	1029.6	+2	S	1	c	38	95	5	5	-	-	9+	9+	4000	1	*
	Calshot, S'thmtn	1029.9	+2	SW	2	z	40	95	5	5	-	-	10	10	1500	1	0
	Dungeness	*	*	NW	2	f	*	*	2	5	3	*	2.3	4-6	<150	*	1
	Lympne	1029.1	+4	NW'N	2	f	28	95	2	-	-	-	0	0	-	6	*
2	Shoeburyness	1028.8	0	W'N	2	f	35	95	3	5	-	-	10	10	<150	4	*
	Felixstowe	1028.8	+4	WSW	2	z	34	95	5	5	-	-	10	10	800	1	1
	Gorleston	1027.1	-2	W	2	F	34	95	1	-	-	-	10	10	<150	6	1
	Cranwell	1027.3	+6	WSW	3	f	38	95	3	5	-	-	9+	9+	2500	1	*
3	Cardington	1028.4	+2	WSW	3	c	37	95	5	5	-	-	10	10	2500	1	*
	Birmingham	1028.6	+2	W	2	c	41	85	5	5	3	-	4.6	7-8	2500	1	*
	Upper Heyford	1029.5	+6	SW	2	z	37	95	6	5	-	-	10	10	1500	1	*
	Leafield	1028.9	0	W	3	c	39	95	6	5	-	-	9	9	4000	1	*
4	Ross-on-Wye	1028.6	0	SW	2	c	40	85	7	5	-	-	7-8	7-8	4000	1	*
5	Portland Bill	1029.4	+2	N'W	2	c	46	85	7	4	7	-	7.8	9	2500	1	1
	Plymouth	1031.1	+8	NNW	3	z	44	85	5	5	-	-	9	9	4000	1	0
	Falmouth	1032.6	+8	NW'W	2	bc	44	85	7	3	3	-	4-6	4-6	4000	0	0
	Scilly (St. Mary's)	1032.1	+2	NNW	3	c	45	85	8	5	-	8	4-6	7-8	4000	0	1
	Guernsey	1029.9	+8	-	0	c	45	85	8	5	-	-	7-8	7-8	1500	1	2
6	Pembroke	1029.7	+2	NW	3	c	47	95	8	8	8	-	4-6	7-8	2500	0	1
7	Holyhead	1027.7	+4	WNW	4	c	46	95	6	5	3	-	7.8	9	2600	1	2
	Chester (Sealand)	1027.5	+6	W	3	c	44	95	6	5	-	-	9+	9+	1500	1	*
8	L'pool (Bidston)	1027.4	0	WSW	4	o	43	95	8	5	-	-	10	10	2500	1	*
9	Harrogate	1025.6	+10	WSW	2	b	41	95	7	6	-	-	1	1	2500	1	*
10	Spurn Head	1025.1	0	W'N	4	f	41	95	3	5	-	-	9	9	220	0	3
	Tynemouth	1023.0	0	W	2	bc	42	95	7	5	-	-	2.3	2.3	1500	1	2
11	Inchkeith	1021.3	-4	WSW	4	c	44	95	7	5	1	-	2.3	7-8	800	0	2
	Leuchars	1019.8	-6	WSW	3	bc	43	85	8	5	-	-	4-6	4-6	4000	1	*
12	Renfrew	1022.4	0	W	3	c	46	85	6	8	-	-	9	9	2500	1	*
	Eskdalemuir	1024.0	+4	SW	3	c	41	95	7	5	-	-	9+	9+	1500	1	*
13A	Tiree	1022.3	-6	WSW	4	id₀	48	85	6	5	2	-	4-6	10	1500	1	3
13B	Stornoway	1016.1	-10	WSW	5	DD	48	95	5	6	-	-	10	10	4000	1	3
15	Dalwhinnie	1018.8	-10	WNW	6	bc	42	85	8	5	-	-	4-6	4-6	2500	1	
	Aberdeen	1018.0	-2	W	3	c	47	75	7	5	4	-	4-6	7-8	2500	1	1
	Wick	1014.3	-4	W	3	c	46	95	8	4	-	-	9+	9+	1500	1	2
16	Lerwick	1007.1	-10	W'N	3	d₀d₀	48	95	6	6	-	-	10	10	800	2	*
17	Blacksod Point	1028.4	-6	W	3	id₀	49	85	6	5	-	-	10	10	*	1	3
18	Malin Head	1024.5	+2	W	3	c/d	47	95	5	6	2	-	2.3	10	800	1	2
	Aldergrove	1026.9	0	SSW	3	c	43	95	6	5	3	-	7.8	9+	800	1	*
	Donaghadee	1026.0	-2	WSW	2	c	44	85	7	5	-	-	7-8	7-8	1500	1	1
19	Birr Castle	1030.1	+2	SW	2	c	43	95	8	5	4	-	2.3	7-8	2500	1	*
20	Valentia Obsy.	1031.9	0	NW'W	1	bc	45	95	8	5	-	-	2.3	2.3	1500	1	2
	Roches Point	1031.2	-4	NW	3	c	47	85	8	3	-	-	7.8	7.8	1500	0	2

PAST 24 HOURS. WEATHER.

District	Stations	7h.–13h. 10th (37)	13h.–18h. 10th (38)	18h. 10th to 1h. 11th (39)	1h.–7h. 11th (40)
1	London (Kew)	oFx	ofd₀	ofcm	cm₀
	Croydon	oFFe	offbcoffm	om.dm	ocm₀
	S. Farnborough	ofxomof	ofed₀cdm	omcbcom	om cm₀
	Winchester	cm₀	cm₀	cm₀f	FF
	Boscombe Down	o	cm₀	cm₀bm₀bcm₀	cm₀
	Calshot, S'thmtn	cm₀x	cm₀	cmbcbfxFFc	ofcFcom
	Dungeness	f	o		o
	Lympne	bcFbf	bFcF	bfoddfm	ocm₀f
2	Shoeburyness	off	off	ofm	c
	Felixstowe	bm₀xcmxbm	bmcz₀Fom	om₀cm₀	cm₀
	Gorleston	bcmm₀	bco FFx	offmm	om₀m₀
	Cranwell	bcfoF	cfof	cfcm₀	cm₀
3	Cardington	fxom	omcd₀m	cm₀	corcm₀
	Birmingham	ccf	mbc	c	c
	Upper Heyford	FFe	ofcm₀	cm₀bc	bcc
	Leafield	ofifc	c	bcbf	bcc
4	Ross-on-Wye	cmc	cbcc	bbcbw	bcc
5	Portland Bill	c	c	bcc	c
	Plymouth	bccm₀bc	bccm₀	cm₀bc	bcod₀c
	Falmouth	oir₀bc	bc	bcc	coirc
	Scilly (St. Mary's)	c	bcc	cbc	bccw
	Guernsey	od₀oc	c	coc	cbcbc
6	Pembroke	c	c	c	cp₀
7	Holyhead	c	c	c, r₀c	cm₀
	Chester (Sealand)	m₀c	pr₀cm₀	bcm₀b	bcc
8	L'pool (Bidston)	r₀cr₀	ccir₀	cir₀o	co
9	Harrogate	cr₀cbc	bcb	b	bbccqr₀
10	Spurn Head	efm	cf	cfmbc	bcc
	Tynemouth	ocm	cbc	bc	bcoir₀q
11	Inchkeith	oc	bcc	c	c
	Leuchars	cir₀m₀c	cbc	bccbc	bccq
12	Renfrew	cm₀cir₀	ir₀cm₀	cm₀	c, ir₀
	Eskdalemuir	cid₀bc	bccpbc	cid₀	od₀d m
13A	Tiree	kpridcm.	id₀m₀	cid₀	id₀
13B	Stornoway	cid	oid₀	cdd	oddrr
15	Dalwhinnie	bcpr₀	bcpr₀	cpr₀	cpr₀
	Aberdeen	c	c	crc	c
	Wick	oc	c	c	crr₀
16	Lerwick	or₀r₀m₀	orrd₀m₀	orrmcpr	cbcpr₀
17	Blacksod Point	c	id	dd	id
18	Malin Head	cidm₀m₀	cr₀d₀mm₀	cp₀omm	oidmm
	Aldergrove	cm₀foc	ccm₀	cm₀	crrm₀
	Donaghadee	c	c	c	c
19	Birr Castle	bcbc	bccrc	cc	or₀c
20	Valentia Obsy.	cp₀	cbc	bwbccpc	cir₀
	Roches Point	c	cp₀c	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.
m, mist, " 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,

R, heavy rain. r₀, slight rain. rr, continuous rain.

<, less than (for cloud height).

⊕, solar halo. ♁, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

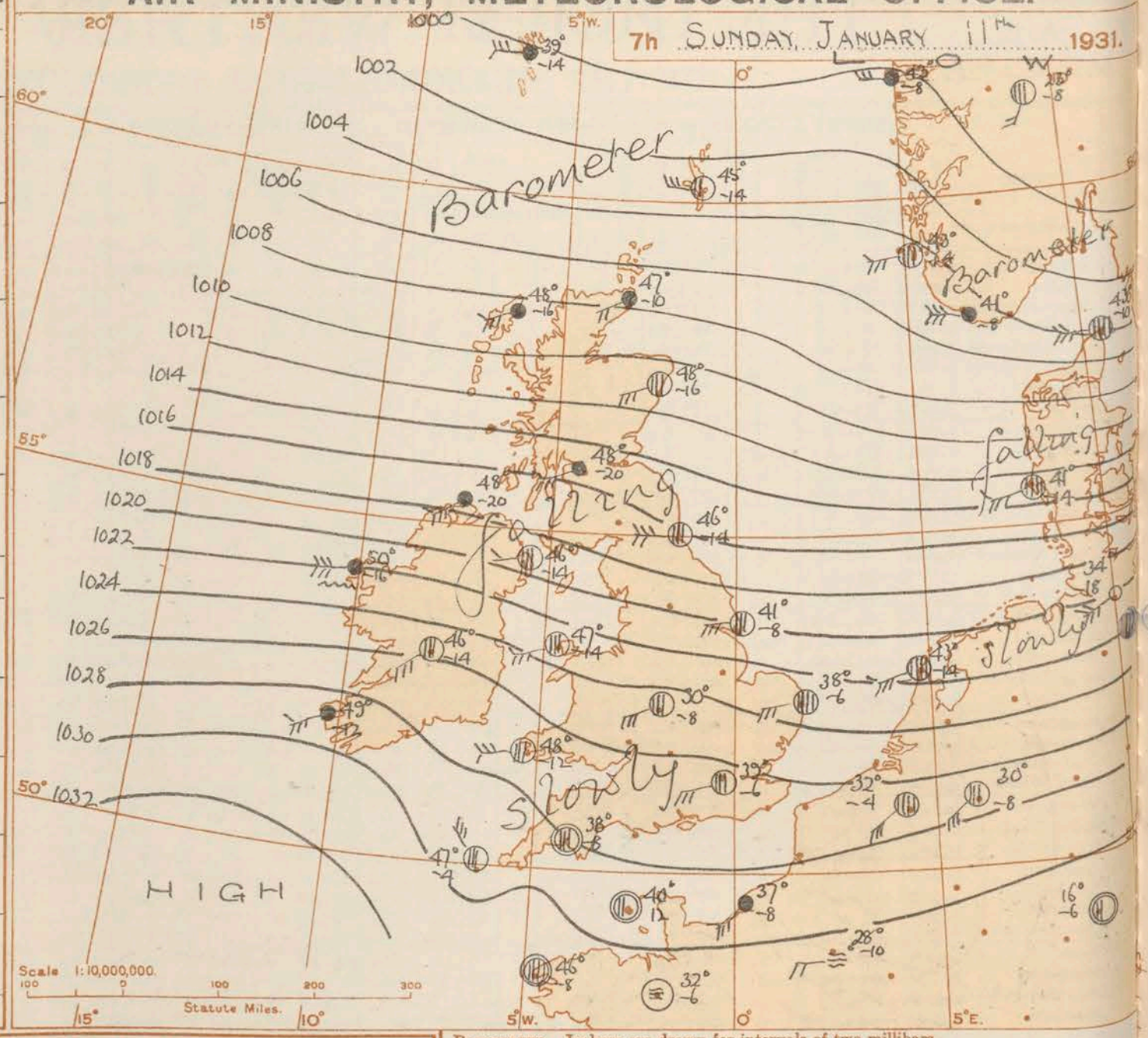
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 10th JANUARY 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 9th to 9h. 10th	Temperature. Max. 9h.—17h. 10th	Rainfall. Night. 17h. 9th to 9h. 10th	Rainfall. Day. 9h.—17h. 10th	Sunshine. Sunrise to Sunset. 10th
1	Tunbridge W.	of	of	23	36	-	-	0·0
	Bournemouth	mco	om	31	42	-	-	0·3
	Ventnor ...	xobc	bo	33	40	-	-	2·5
	Southsea ...	c	cmf	31	39	-	-	0·3
	Bognor Regis	cbc	bcc	31	42	-	-	2·9
	Littlehampton	cbc	bcc	30	39	-	-	3·4
	Worthing ...	cbc	bc	31	39	Trace	-	4·5
	Brighton ...	bbcb	b	30	37	-	-	4·4
	Eastbourne†	bm	bfocm	36	36	-	-	6·0
	Hastings† ...	xbmbc	bbcbm	30	41	0·1	-	6·0
	Folkestone ...	xbcfb	bbcf	31	41	-	-	5·2
	Dover... ...	fob	fbbcc	32	40	-	-	5·6
	Deal	xo	ocof	32	34	-	-	0·0
	Ramsgate ...	bcmf	bcf	32	36	-	Trace	0·1
	Margate ...	bc	cf	30	37	-	-	0·0
2	Southend ...	offe	offe	27	32	Trace	Trace	0·0
	Maldon ...	xomc	of	29	34	-	-	0·1
	Clacton-on-Sea	bcmx	cbmof	30	36	-	-	3·8
	Dovercourt ...	xbcc	bcf	28	38	-	-	0·9
	Lowestoft ...	c	bccom	26	35	0·4	-	1·8
	Skegness ...	cm	bcm	27	36	Trace	Trace	0·7
	Mablethorpe	bm	ccm	28	40	-	-	2·4
	Cleethorpes ...	xmc	bcfo	30	40	-	Trace	2·4
3	Leamington S.	om	oc	32	40	0·5	-	0·0
4	Cheltenham†	omdc	cbc	33	41	2	Trace	0·0
5	Bath	mc	c	30	34	-	-	0·0
	Weymouth ...	cbc	cm	33	44	Trace	-	0·0
	Jersey ...	pcbc	bc	37	46	1	-	5·5
	Torquay ...	cmcbc	mcm	31	48	-	-	5·5
	Penzance ...	c	cbc	40	49	0·2	-	2·0
	St. Ives ...	c	c	42	47	-	-	1·3
	Bude	xcbc	bcc	30	46	0·3	-	2·0
	Ilfracombe ...	bcc	cbc	35	47	-	-	1·0
6	Aberystwyth	mrc	pmrc	34	45	0·3	0·3	0·3
7	Llandudno ...	c	crc	41	45	1	0·5	0·4
	Colwyn Bay...	rrco	rro	39	46	3	1	0·1
	Rhyl	rcbc	bccd	40	46	2	0·1	1·5
8	Wallasey ...	ocp	bcc	37	45	1	Trace	0·5
	Southport‖ ...	o	ocdo	[illegible]	44	0·4	Trace	0·1
	Blackpool ...	c	c	38	46	0·2	-	0·7
	Morecambe ...	mccdp	cbbcc	29	44	0·3	0·5	0·2
9	Ilkley... ...	od	oc	30	43	Trace	Trace	0·0
10	Berwick-on-T.	oc	c	[illegible]	45	-	-	1·2
11	Dunbar ...	cc	c	35	45	0·3	-	0·2
12	Douglas ...	cbcir	cbcir	35	46	1	Trace	0·5

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 11th Jan. 1931.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Wind westerly, light or moderate; cloudy; local mist or fog at first; some rain or drizzle later; mild.
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland	Wind westerly, moderate to fresh; cloudy; occasional rain; 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.	Wind westerly, moderate to fresh, strong at times; cloudy: occasional rain; mild.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 8 - 11.

GENERAL INFERENCE.

An anticyclone off our Southwest coasts continues to move slowly southward. Weather will be cloudy, with occasional rain in Scotland, Ireland and Northern England.

FURTHER OUTLOOK.

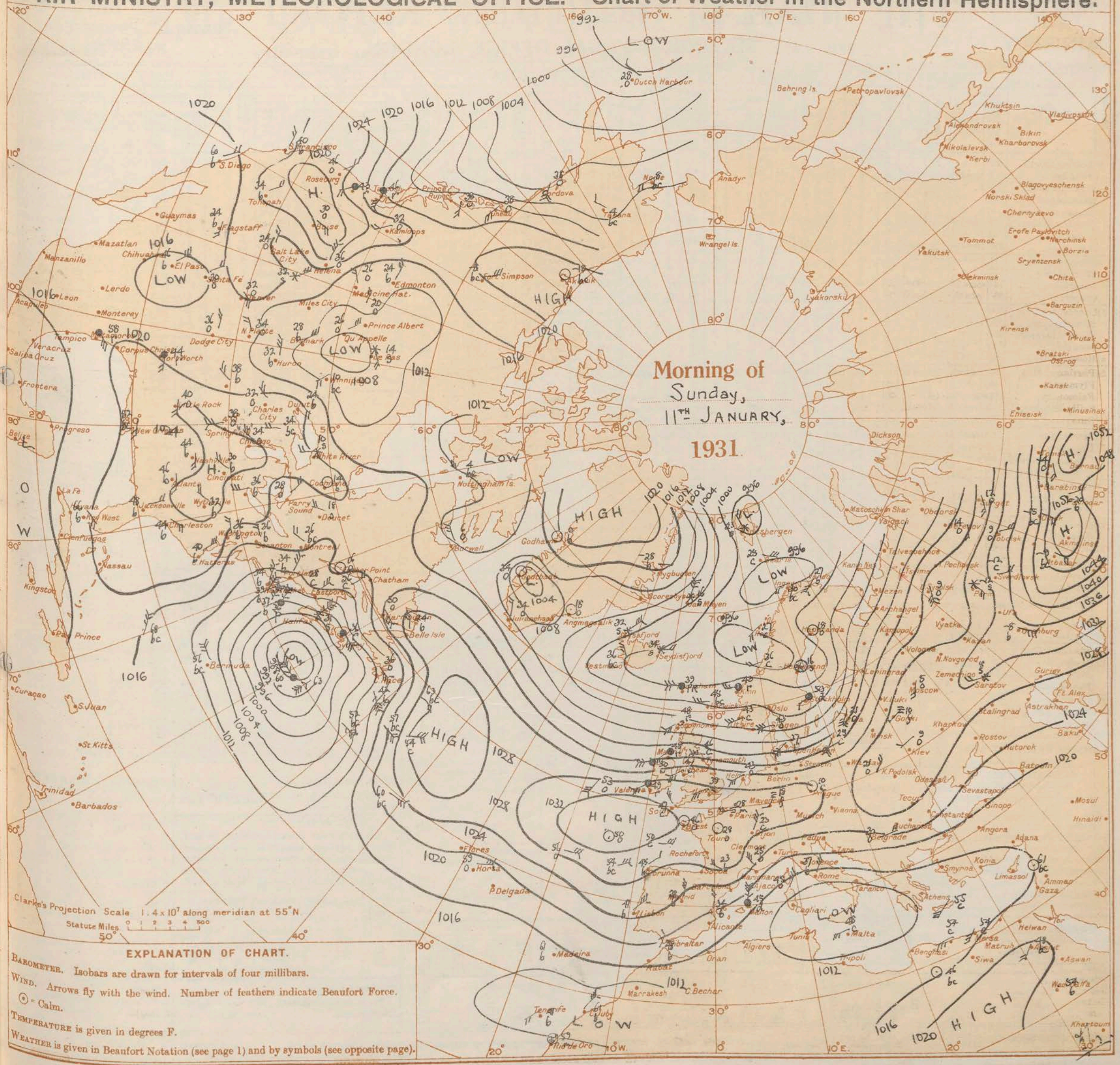
Not much change.

Forecasts issued at 1115 G.M.T.

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

H.M. Stationery Office Press, Kingsway, W.C.2. Pa. 2438/2174. Wt. 26. D.6026. Gp. 908. 27300. 1/31.

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION
Sunday, 11th January 1931.
No. 25252

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

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	1028.5	-6	WSW	4	o	39	95	6	5	-	-	10	10	800
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1029.4	-6	SW'S	2	F	35	95	1	5	-	-	10	10	<150
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1028.6	-2	WNW	2	m₀	34	95	5	5	-	-	10	10	450
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	55	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1026.8	-2	WSW	2	o	37	95	5	6	-	-	10	10	2500
	Cranwell ...	240	1025.8	-12	WSW	4	c	39	95	6	5	-	-	9	9	2500
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1026.8	-8	N'W	3	c	45	96	8	4	8	-	4-6	7-8	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1031.5	-6	-	0	c	44	95	8	5	-	-	9	9	4000
	Scilly (St. Mary's)	163	1031.6	-4	NW'W	2	bc	43	95	8	7	-	-	2-3	2-3	4000
	Guernsey ...	173	1030.1	-8	-	0	c	46	75	7	5	-	-	7.8	7.8	2500
6	Pembroke ...	142	1028.8	-6	W	2	pr	47	95	8	8	6	-	4-6	7-8	1500
7	Holyhead ...	26	1025.9	-12	W	4	c	47	95	6	5	2	-	9	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	67	1023.6	-4	W	4	bc	40	95	6	5	-	-	4-6	4-6	1500
	Tynemouth ...	29	1019.9	-20	W	3	bc	42	95	7	2	-	-	2-3	2-3	2500
11	Inchkeith ...	190	1019.2	-10	SW	5	c	45	95	8	5	2	-	4-6	9+	4000
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1012.4	-22	WSW	4	dd	48	95	5	6	-	-	10	10	4000
15	Dalwhinnie ...	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1011.6	-10	W	3	c	47	95	8	8	2	-	4-6	10	1500
16	Lerwick ...	54	1004.7	-10	W'N	3	pr	47	95	7	9	-	-	7-8	7-8	1500
17	Blacksod Point	10	1024.9	-16	W	6	DD	49	95	6	6	-	-	10	10	<150
18	Malin Head ...	51	1021.3	-16	SW'W	4	o	47	95	5	6	-	-	10	10	800
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1030.3	-10	W	2	o	47	95	9	3	-	-	10	10	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 11th JANUARY — 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)	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)	Min. Night 18h-7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h-18h mm. (34)	Rainfall Night 18h-7h mm. (35)	Sunshine 10th Hrs. (36)
London (Kew)	1026.3	-6	SW	2	c	36	95	6	5	-	-	9+	9+	2500	1	*	37	36	33	Tr	Tr	0.0
Croydon	1026.8	-6	W'S	3	cm₀	39	95	6	5	7	-	4.6	9+	2500	1	*	37	37	31	Tr	Tr	0.0
S. Farnborough	1026.8	-10	WSW	1	om₀	37	95	5	5	-	-	10	10	1500	4	*	38	~~33~~ 34	26	Tr	-	0.0
Winchester	1027.4	-12	S'E	1	F	34	95	1	-	-	-	10	10	<150	1	*	39	31	28	-	0.1	0.0
Boscombe Down	1027.1	-4	S'W	2	c	38	95	6	5	3	-	7.8	9	4000	1	*	40	33	31	-	Tr.	*
Calshot	1027.7	-10	SW'S	2	om	38	95	4	5	-	-	10	10	1500	1	0	40	32	24	-	0.1	0.0
Dungeness	*	*	~~W'S~~ WSW	3	om₀	*	*	5	5	-	*	10	10	1500	*	1	34	27	*	-	0.2	*
Lympne	1026.7	-6	SW'W	2	f	34	95	3	5	-	-	9+	9+	2500	6	*	32	28	26	0.1	0.3	0.7
Shoeburyness	1025.7	-10	W'S	3	c	39	95	7	5	1	-	4.6	7.8	4000	1	*	35	34	31	Tr	-	0.0
Felixstowe	1025.3	-2	W'S	3	cm₀	38	95	6	5	-	-	9	9	4000	1	2	37	34	31	-	-	3.8
Gorleston	1023.7	-6	W'S	3	o	38	95	6	6	-	-	10	10	1500	1	2	37	34	33	-	-	2.9
Cranwell	1022.6	-18	SW'W	4	c	40	95	6	5	-	-	9+	9+	2500	1	*	38	37	35	0.1	0.1	0.0
Cardington	1025.0	-10	WSW	4	c	38	95	6	5	-	-	9+	9+	2500	1	*	37	35	33	0.1	0.3	0.0
Birmingham	1024.8	-8	WSW	3	c	40	95	8	5	-	-	9	9	4000	1	*	42	38	36	-	-	0.0
Upper Heyford	1025.9	-10	SSW	2	c	36	95	7	5	7	-	4.6	9	1500	1	*	38	31	28	-	-	*
Leafield	1025.3	-10	SW'W	3	c	37	95	5	5	-	-	9+	9+	4000	1	*	39	32	31	-	-	0.0
Ross-on-Wye	1025.6	-14	SW	1	c	38	95	6	5	-	-	9+	9+	2500	1	*	43	36	28	-	-	0.2
Portland Bill	1027.2	-6	W'N	3	c	45	95	8	4	4	-	4.6	9	2500	1	2	46	43	*	-	[illegible]	*
Plymouth	1028.8	-8	-	0	c/d	38	95	6	5	-	-	9+	9+	2500	2	0	47	35	33	-	0.2	3.6
Falmouth	1030.0	+4	WSW	2	c	45	85	8	5	3	-	4.6	7.8	4000	1	1	49	42	*	Tr	0.6	2.8
Scilly (St. Mary's)	1028.5	-4	NW	3	c	47	95	8	5	-	-	7.8	7.8	4000	0	1	48	42	*	-	Tr.	3.8
Guernsey	1028.6	-12	-	0	bc	40	95	9	5	-	-	4.6	4.6	2500	~~1~~ 0	2	46	40	28	Tr	-	0.4
Pembroke	1026.2	-12	W	4	cq	48	95	7	8	7	-	4.6	9+	1500	0	2	47	44	*	-	Tr.	3.0
Holyhead	1022.9	-14	W'S	4	c	47	95	6	5	2	-	4.6	10	1500	1	3	47	46	43	-	Tr.	0.5
Chester (Sealand)	1023.0	-14	WSW	1	c	46	85	7	5	2	-	7.8	10	2500	1	*	46	42	38	Tr	-	2.2
L'pool (Bidston)	1022.1	-10	WSW	5	o	45	85	8	5	-	-	10	10	2500	1	*	44	42	41	0.2	Tr.	1.0
Harrogate	1018.8	-14	SW	7	ir₀	44	95	7	6	-	8	1	7.8	2500	1	*	42	41	37	0.1	Tr.	1.5
Spurn Head	1020.7	-8	W	3	c	41	95	6	5	2	-	7.8	10	1500	0	3	41	39	*	-	-	3.4
Tynemouth	1016.0	-14	W	5	c	46	85	7	9	-	-	7.8	7.8	1500	1	2	44	42	34	-	0.3	*
Inchkeith	1014.9	-12	SW	4	c	46	95	9	5	2	-	4.6	9+	4000	0	2	45	44	43		-	0.6
Leuchars	1013.8	-4	WSW	5	c	46	95	8	5	3	6	2.3	9+	4000	1	*	49	41	38	0.2	-	1.6
Renfrew	1015.5	-20	WSW	4	ir₀	48	95	6	6	-	-	10	10	1500	1	*	47	45	42	Tr	0.3	0.6
Eskdalemuir	1017.9	-24	SW'S	3	dd₀	41	95	4	5	-	-	10	10	<150	1	*	44	39	32	0.3	2	0.5
Tiree	1014.0	-22	WSW	5	id₀	49	95	6	5	-	-	10	10	2500	1	3	48	48	45	0.5	0.3	0.0
Stornoway	1008.8	-16	WSW	4	rr	48	95	5	6	-	-	10	10	4000	2	3	48	47	*	0.4	4	0.0
Dalwhinnie	1012.2	-16	W	5	id₀	46	95	7	5	-	-	7-8	7-8	1500	1		43	42	*	0.5	0.6	0.4
Aberdeen	1010.5	-16	WSW	3	c	48	75	8	5	-	-	10	10	2500	1	1	47	43	36	-	0.3	0.1
Wick	1007.9	-10	WSW	2	r₀r₀	47	95	8	9	1	8	4.6	9	1500	1	2	46	46	*	-	1	*
Lerwick	1002.5	-14	W'N	3	bc/pr	45	85	7	8	6	-	2.3	4.6	1500	1	*	48	44	*	3	5	0.0
Blacksod Point	1021.6	-16	W	6	iD	50	95	6	6	-	-	10	10	<150	1	4	49	48	*	0.2	2	*
Malin Head	1017.1	-20	SW'W	4	id	48	95	4	6	-	-	10	10	450	1	2	47	46	*	1	1	0.3
Aldergrove	1020.0	-18	S	4	rr	45	95	6	6	-	-	10	10	800	1	*	44	39	38	Tr	3	0.7
Donaghadee	1019.7	-14	W	1	c	46	95	7	5	2	-	4.6	7.8	2500	0	0	46	43	*	Tr	-	*
Birr Castle	1024.4	-14	SW	8	c	46	95	7	5	7	-	2.3	10	2500	1	*	41	42	39	0.3	Tr.	1.1
Valentia Obsy.†	1027.9	-12	WSW	4	ir₀	49	45	7	5	2	-	4.6	10	1500	1	3	50	43	40	Tr	0.3	0.8
Roches Point	1027.7	-14	NW	3	c	41	85	8	5	-	-	7.8	7.8	1500	0	2	48	38	*	Tr	-	*

LONDON OBSERVATIONS.

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

Station	Height above M.S.L. in feet	Weather Morning (24 hrs. ended 9h.)	Weather Afternoon	Weather Night	Temp. Day Max. °F.	Night Min. °F.	Min. on Grass °F.	Rainfall Day mm.	Rainfall Night mm.	Sunshine to Sunset hrs. (Yesterday)	Humidity 15h. G.M.T. % (Yesterday)	Humidity 9h. G.M.T. % (To-day)	Visibility 9h.
Kew	18	oFx	ofd₀	ofcm	37	36	33	Tr	Tr.	0.0	•	•	
Croydon	217	oFfe	offbcffm	omdcm	37	37	31	Tr.	Tr.	0.0	•	•	6
Greenwich (Royal Observatory)	149	oF	oFfd₀bc	bcfmdc	38	36	31	Tr.	Tr.	0.0	98	93	4
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Park)	27	•	•	•	39	31	?26	←0.6→		0.0	94	94	•
Regents Pk. (Botanic Gardens)	168	•	•	•	•	•	•	•	•	•	•	•	•
Camden Square	110	•	•	•	37	36	32	-	0.3	•	•	95	•
Kensington Palace	80	of	of	•	37	37	30	-	0.4	•	At 18h. 92	89	•
Hampstead Observatory	450	oSx	ofm	ofd	37	33	27	0.3	0.3	0.0	•	98	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 11th

SOUTH KENSINGTON.			
Max.	Time.	Min.	Time.
1.3	21h an 10h	<0.3	4h to 7h an 11h

KEW OBSERVATORY.			
Max.	Time.	Min.	Time.
Defective Record.			

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 10th JANUARY Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 11th JANUARY Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1031.1	—	0	m	30	1031.4	WSW	1	of	28	34	28	–	–
Brussels	1029.5	WSW	2	c	30	1027.6	SW	3	c/d	32	32	28	–	0.1
Berlin						1025.5	SW	4	c	23		19		–
Zürich	1026.8	SE	1	c	23	1029.2	W	1	b	14	37	12	–	0.2
Rome	1013.5	NNE	3	bc	37	1015.0	NNE	3	c	34	46	32	–	–

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 12th January 1931.

No. 25253.

OBSERVATIONS at 13h. G.M.T. 11th Jan.

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)	1022.5	-34	WSW	3	c	44	95	5	7	3	-	2-3	9	1500
	Croydon	1022.4	-34	SW	4	2	46	85	6	5	3	5	2-3	4-6	800
	S. Farnborough	1023.0	-30	WSW	3	c	43	95	6	5	-	-	10	10	4000
	Winchester	1023.5	-34	WSW	2	c	41	95	6	5	-	-	10	10	2500
	Boscombe Down	1024.1	-26	WSW	3	c	42	95	6	5	2	-	9	10	4000
	Calshot, S'thmtn	1024.0	-30	WSW	3	c/pr	45	85	5	5	8	-	7-8	9+	2500
	Dungeness	*	*	W	3	2	*	*	5	5	1	-	4-6	9	2500
	Lympne	1023.4	-26	WSW	3	2	40	95	5	5	-	-	10	10	450
2	Shoeburyness	1022.3	-30	SW	3	c	43	95	6	5	1	-	7-8	9	4000
	Felixstowe	1021.6	-30	WSW	2	2	41	95	5	5	-	-	9+	9+	4000
	Gorleston	1019.9	-16	W'S	3	c	44	95	6	4	3	-	2-3	9	2500
	Cranwell	1018.6	-30	W'S	5	c/pr	45	85	6	6	7	-	7-8	10	1500
3	Cardington	1020.7	-30	WSW	4	c	45	85	6	5	7	8	7-8	9+	4000
	Birmingham	1019.5	-26	WSW	3	c	45	95	7	5	-	-	10	10	2500
	Upper Heyford	1022.0	-30	SW	3	2	42	95	5	5	2	-	4-6	10	450
	Leafield	1021.5	-26	SW'W	2	c	42	95	5	5	2	-	Tr.	9+	450
4	Ross-on-Wye	1021.3	-24	W'S	4	id$_o$	47	85	7	5	1	-	9	9+	2500
5	Portland Bill	1024.1	-24	W	4	c	48	85	8	4	5	-	4-6	9	2500
	Plymouth	1025.3	-30	W'N	2	c	46	95	6	5	-	-	9+	9+	2500
	Falmouth	1027.0	-8	W'S	3	c	48	75	7	5	2	-	4-6	10	4000
	Scilly (St. Mary's)	1027.1	-16	W'N	4	c	49	95	8	5	-	-	9	9	4000
	Guernsey	1026.0	-28	WSW	2	c	49	75	8	5	-	-	9+	9+	2500
6	Pembroke	1022.7	-18	WSW	4	q	49	95	7	8	7	-	2-3	9+	1500
7	Holyhead	1018.7	-30	SW'W	4	o	48	95	6	5	-	-	10	10	800
	Chester (Sealand)	1019.0	-26	WSW	3	c/r	48	85	8	6	7	-	9	10	2500
8	L'pool (Bidston)	1018.1	-20	WSW	4	id$_o$	46	95	6	6	-	-	10	10	1500
9	Harrogate	1015.3	-10	SW	7	c	45	95	8	6	2	-	9	10	2500
10	Spurn Head	1015.8	-12	W	3	c	44	95	6	5	3	-	7-8	10	2500
	Tynemouth	1012.3	-20	W	4	c	48	85	6	6	-	-	9	9	1500
11	Inchkeith	1011.0	-20	SW	5	c	47	95	7	5	1	-	4-6	9+	1500
	Leuchars	1009.7	-22	WSW	5	c	49	85	8	5	7	-	2-3	9	1500
12	Renfrew	1012.2	-18	WSW	3	dd	49	95	6	6	2	-	9+	10	1500
	Eskdalemuir	1012.5	-34	W'S	4	rr	45	95	6	6	-	-	10	10	800
13A	Tiree	1012.1	-10	WNW	3	c	47	85	7	5	7	-	7-8	9+	1500
13B	Stornoway	1007.9	-8	WNW	4	pr	45	85	8	3	-	-	7-8	7-8	4000
15	Dalwhinnie	1010.0	-10	W	5	c	44	85	8	5	4	-	4-6	7-8	4000
	Aberdeen	1007.4	-14	WNW	3	ir	48	85	7	9	-	-	9+	9+	1500
	Wick	1005.4	-6	WNW	3	bc	44	85	8	9	-	8	4-6	4-6	1500
16	Lerwick	1000.8	-16	W	2	bc jp	44	85	8	8	-	-	4-6	4-6	1500
17	Blacksod Point	1017.0	-26	W	6	iD	50	95	7	6	-	-	10	10	<150
18	Malin Head	1014.0	-18	NW	3	rr	47	95	5	6	2	-	9	10	450
	Aldergrove	1015.3	-32	SW'S	4	id$_o$	46	95	7	5	-	-	10	10	450
	Donaghadee	1015.1	-16	SW	3	c	49	95	7	5	2	-	4-6	7-8	2500
19	Birr Castle	1020.1	-28	SW	3	o	48	95	7	5	-	-	10	10	1500
20	Valentia Obsy.	1023.8	-34	SW'W	5	c	50	75	8	5	2	-	4-6	10	1500
	Roches Point	1023.8	-26	NW	3	c	49	85	8	5	-	-	9	9	2500

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

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)	1019.2	-14	SW	4	c	44	95	5	5	2	-	7-8	10	2500	1	*
	Croydon	1019.2	-22	SW'W	4	c	45	85	6	5	-	-	10	10	800	1	*
	S. Farnborough	1019.6	-20	SW'W	3	c	44	95	6	5	-	-	10	10	4000	1	*
	Winchester	1020.1	-18	SSW	3	c	42	95	6	5	-	-	10	10	2500	1	*
	Boscombe Down	1019.5	-30	WSW	3	r$_o$r$_o$	42	95	6	5	-	-	10	10	2500	1	*
	Calshot, S'thmtn	1021.0	-20	SW'W	3	c/r	45	95	6	5	2	-	7-8	10	1500	1	1
	Dungeness	*	*	W	4	m	*	*	4	5	7	*	4-6	9	800	*	3
	Lympne	1020.3	-20	SW'W	3	3	41	95	5	5	-	-	10	10	2500	1	*
2	Shoeburyness	1018.5	-26	SW	4	c	43	95	6	5	2	-	4-6	9	4000	1	*
	Felixstowe	1018.2	-18	SW'W	3	id$_o$	42	95	5	5	-	-	10	10	1500	1	3
	Gorleston	1016.1	-20	WSW	3	ir$_o$	43	95	6	6	-	-	10	10	1500	1	2
	Cranwell	1014.8	-22	WSW	4	c	44	95	6	6	2	-	9	10	1500	1	*
3	Cardington	1017.5	-22	WSW	4	ir	44	95	6	6	7	7	7-8	10	2500	1	*
	Birmingham	1016.5	-24	WSW	3	c	44	95	7	6	-	-	9	10	2500	1	*
	Upper Heyford	1018.3	-20	SW'W	3	r$_o$r$_o$	43	95	7	6	-	-	10	10	800	1	*
	Leafield	1018.1	-20	SW'W	4	o/r	42	95	6	6	-	-	10	10	2500	1	*
4	Ross-on-Wye	1017.8	-16	WSW	3	o	46	85	7	6	-	-	10	10	2500	1	*
5	Portland Bill	1020.6	-20	WSW	5	c	48	85	7	4	-	-	10	10	1500	1	3
	Plymouth	1022.2	-22	WSW	3	c	47	85	7	5	2	-	7-8	9+	2500	2	1
	Falmouth	1023.6	-8	WSW	3	c	46	75	7	5	-	-	9	9	4000	1	1
	Scilly (St. Mary's)	1024.0	-18	WNW	5	pr	47	95	7	8	-	-	9+	9+	4000	1	3
	Guernsey	1023.2	-18	-	0	c	47	75	8	5	-	-	9+	9+	2500	1	2
6	Pembroke	1018.6	-14	W	5	q	48	85	7	8	2	-	7-8	10	1500	0	3
7	Holyhead	1014.1	-32	SW'W	5	ir$_o$	47	95	6	6	-	-	10	10	800	1	3
	Chester (Sealand)	1015.4	-26	WSW	4	c	48	85	8	5	-	-	10	10	2500	1	*
8	L'pool (Bidston)	1013.5	-20	WSW	5	o jp	48	85	7	6	-	-	10	10	2500	1	*
9	Harrogate	1012.4	-10	SW'W	5	dd	45	95	5	6	-	-	10	10	2500	1	*
10	Spurn Head	1012.7	-10	W	4	o	44	95	6	6	-	-	10	10	2500	1	3
	Tynemouth	1010.1	-4	W	2	o	48	95	6	6	-	-	10	10	1500	1	2
11	Inchkeith	1008.8	0	SW	4	c	45	85	7	5	7	-	2-3	9	1500	0	2
	Leuchars	1008.5	-6	S	2	c	41	85	8	5	3	-	4-6	7-8	4000	1	*
12	Renfrew	1010.4	-12	W	3	bc	44	85	7	5	-	-	4-6	4-6	5700	1	*
	Eskdalemuir	1009.8	-16	NW	3	ir	43	95	6	6	-	-	10	10	800	1	*
13A	Tiree	1010.1	-14	W'N	4	bc	44	75	8	5	7	-	2-3	2-3	1500	1	3
13B	Stornoway	1005.5	-16	WSW	2	bc	40	95	8	4	-	-	2-3	2-3	4000	1	*
15	Dalwhinnie	1008.7	-14	WNW	5	bc	37	85	8	5	-	-	4-6	4-6	4000	1	*
	Aberdeen	1006.3	-12	WNW	3	b	40	85	8	-	-	-	0	0	-	1	1
	Wick	1003.9	-10	SW	3	bc	38	95	8	5	1	-	4-6	4-6	2500	1	3
16	Lerwick	998.3	-14	W	3	bc	44	85	7	8	-	-	4-6	4-6	1500	1	*
17	Blacksod Point	1017.1	-4	W	4	c	45	75	7	5	-	-	7-8	7-8	220	1	4
18	Malin Head	1012.5	-8	W	4	bc/pr	44	95	7	3	-	-	2-3	2-3	2500	1	3
	Aldergrove	1013.4	-2	W'N	2	c/r	43	95	7	5	1	-	7-8	9+	1500	1	*
	Donaghadee	1012.2	-10	W	2	ir$_o$	45	95	7	6	-	-	10	10	800	1	1
19	Birr Castle	1016.5	-16	SW	2	r$_o$r$_o$	47	95	7	6	-	-	10	10	1500	1	*
20	Valentia Obsy.	1020.1	-18	W'N	3	rr	49	95	6	5	2	-	7-8	10	800	1	3
	Roches Point	1019.5	-20	W	3	c	49	85	8	8	-	-	9	9	1500	0	3

PAST 24 HOURS.

Stations	Weather 7h.–13h. 11th (37)	Weather 13h.–18h. 11th (38)	Weather 18h. 11th to 1h. 12th (39)	Weather 1h.–7h. 12th (40)
London (Kew)	cm$_o$	cm$_o$	cm$_o$r$_o$	cm$_o$rrcmd$_o$
Croydon	cbcm$_o$	bcc3$_o$ir$_o$	cr$_o$m$_o$	cm$_o$r$_o$r$_o$
S. Farnborough	ocm$_o$bcm$_o$	cm$_o$	cm$_o$rrir$_o$	oir$_o$rrm$_o$
Winchester	FFcm$_o$	cm$_o$	cm$_o$rrc	crrc
Boscombe Down	cmcm$_o$	cm$_o$cr$_o$r$_o$	crrc	ccr$_o$r$_o$c
Calshot, S'thmtn	omcm$_o$id$_o$	cp$_o$rm$_o$	cm$_o$prr$_o$ir$_o$	cir$_o$crr
Dungeness	o	bc		d
Lympne	cfpr$_o$m$_o$	cm$_o$	cdorrm	om$_o$r$_o$r$_o$
Shoeburyness	cm$_o$	cm$_o$	cm$_o$or	r$_o$r$_o$
Felixstowe	cm$_o$pr$_o$	c3$_o$om$_o$	om$_o$rr	omrr
Gorleston	ocm$_o$m$_o$	cm$_o$r$_o$	oir$_o$om$_o$	oro
Cranwell	cm$_o$pr$_o$	cm$_o$r	cm$_o$rr	rrbm$_o$
Cardington	cpr$_o$cm$_o$	cp$_o$odr$_o$c	crcm$_o$	ccrm$_o$
Birmingham	cbcc	cd$_o$r$_o$	corr	orr$_o$c
Upper Heyford	FFc	corrrr	or$_o$o	orr
Leafield	bcFFc	cor$_o$	cor	orrbc
Ross-on-Wye	cbcc	dro	or	rcbc
Portland Bill	c	c	c	cRR
Plymouth	cfoid$_o$m$_o$	cm$_o$c	cb	b-cor
Falmouth	cir	c	cq	oRcbc
Scilly (St. Mary's)	c	cqp	cpcr	orcbc
Guernsey	bc	c	coido	oirrr
Pembroke	cq	cq	crr	cbcpq
Holyhead	ddom$_o$	om$_o$	r$_o$r$_o$bcb	bbc
Chester (Sealand)	cm$_o$r$_o$	c	corrc	bcpr
L'pool (Bidston)	d$_o$id$_o$	idoq	doRr	r$_o$idv
Harrogate	cqir$_o$	codd	codd	cbc
Spurn Head	bc	cpreo	cprorr	orpr bc
Tynemouth	cq	coir$_o$	oir$_o$b	bbc
Inchkeith	c	c	cbc	b
Leuchars	cbcy	cbcc	cbbx	bx
Renfrew	cr$_o$d	r$_o$bcc	bcb-cp$_o$	bccp$_o$
Eskdalemuir	od$_o$dorr	oddair	orcbcc	cid$_o$yxcx
Tiree	oirc	cbcq	bcPRH	prh
Stornoway	cpr	cprbc	bcPR	bcpr
Dalwhinnie	prbc	bcpr$_o$	bcpr$_o$	bcc
Aberdeen	cir	crcb	bx	bx
Wick	r$_o$Rr	prbc	bc	bccpr$_o$
Lerwick	bcrpr	bcpr$_o$	bcpr	bccpr$_o$
Blacksod Point	iD	id	prqc	prq
Malin Head	oidmcrr	crrmm	bcp$_o$hr	bcp$_o$hr
Aldergrove	rrdr$_o$	orrorrm$_o$	cbc	bcx
Donaghadee	cid$_o$c	coir$_o$	ir$_o$bc	b
Birr Castle	cor$_o$o	or$_o$r$_o$	or$_o$cbc	bcx
Valentia Obsy.	c	cmpcrr	crrcp$_o$	cpbcc
Roches Point	c	c	cpc	cbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,

R, heavy rain. r$_o$, slight rain.
rr, continuous rain.

<, less than (for cloud height).

⊕, solar halo. ☾, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.

"tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky.

"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

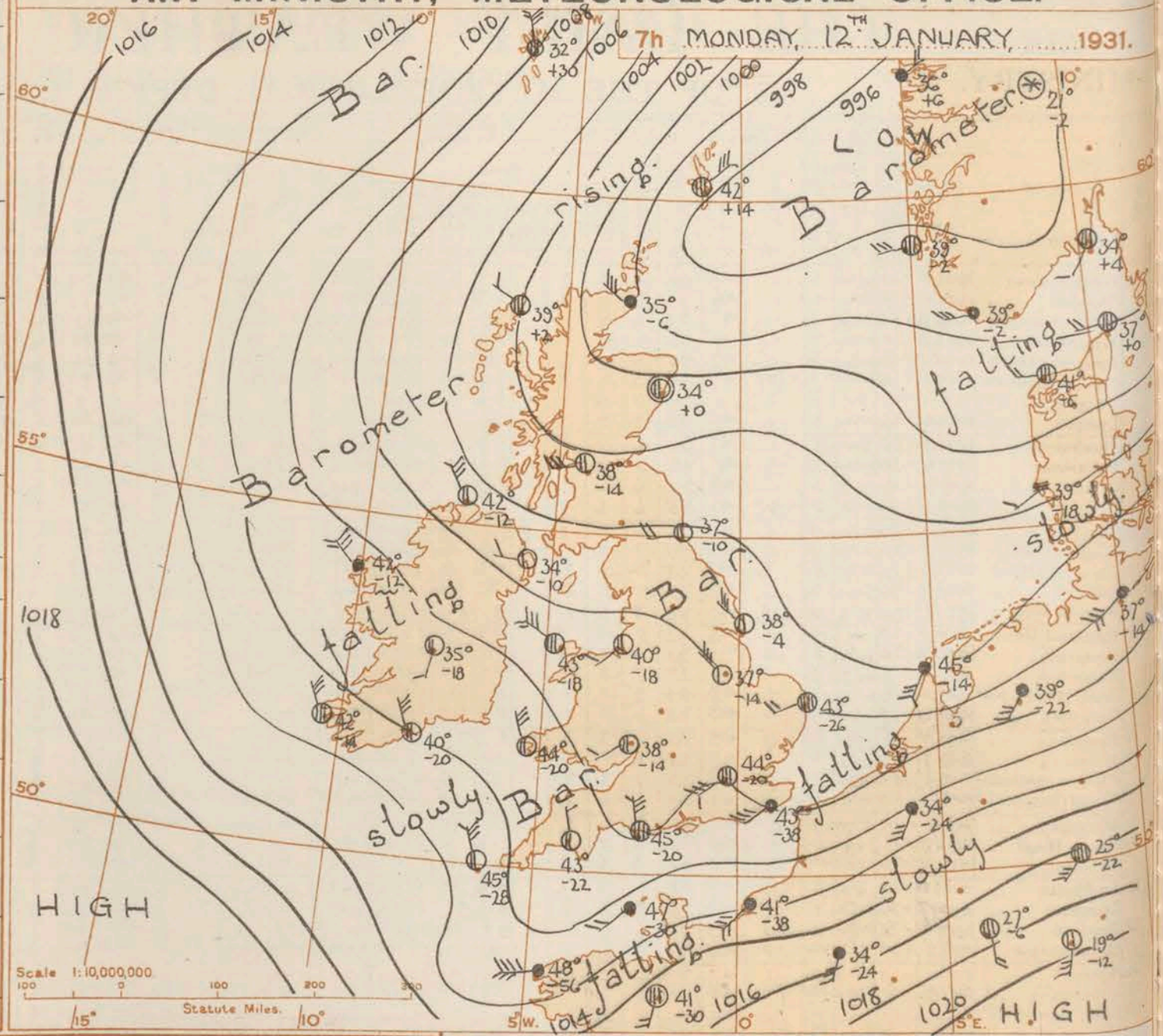
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for Sunday, 11th Jan. 1931.

Districts	Stations	Weather. Fore-noon.	Weather. After-noon.	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.	coc	cbco	28	43	Tr.	–	1.0
	Bournemouth	o	om	33	45	–	–	0.0
	Ventnor ...	cobo	obo	37	48	Tr.	–	0.9
	Southsea ...	ocp	pcco	34	46	–	1	1.5
	Bognor Regis	rcbc	becbc	33	46	1	0.3	1.2
	Littlehampton	csc	cbcc	31	46	0.1	–	1.0
	Worthing ...	o	odco	31	46	0.3	Tr.	0.9
	Brighton ...	oc	cbc	31	45	–	–	0.4
	Eastbourne†	oco	ro o	36	46	–	Tr.	0.4
	Hastings† ...	omoc	codoc	34	44	0.1	0.1	0.1
	Folkestone ...	rofro	ofem	33	45	1	Tr.	0.2
	Dover... ...	moc	mcbc	33	45	1	–	1.3
	Deal	co	oc	28	46	–	–	1.6
	Ramsgate ...	cmcbc	cm	32	44	0.2	–	1.0
	Margate ...	cbc	c	31	45	Tr.	–	0.9
2	Southend ...	ocbc	bcco	27	46	Tr.	–	1.3
	Maldon ...	c	co	34	45	–	–	0.3
	Clacton-on-Sea	becz	cz	31	42	–	–	0.0
	Dovercourt ...	dbcc	poc	30	43	Tr.	Tr.	0.4
	Lowestoft ...	odbc	bcc	28	44	–	Tr.	2.0
	Skegness ...	om	om	31	44	Tr.	Tr.	0.0
	Mablethorpe	om	omr	33	46	–	2	0.0
	Cleethorpes ...	mo	ro	30	46	1	0.4	0.0
3	Leamington S.	c	cod	34	46	–	Tr.	0.0
4	Cheltenham†	coir	o	36	46	–	1	0.6
5	Bath	cmm	cr	32	47	Tr.	0.3	0.0
	Weymouth	jc	co	35	47	–	–	0.0
	Jersey ...	pfc	bcc	39	50	0.3	–	2.7
	Torquay ...	opcm	codrp	34	47	Tr.	0.2	0.0
	Penzance ...	c	crd	41	50	1	0.2	0.0
	St. Ives ...	o	d	44	49	2	Tr.	0.0
	Bude	o	oe	35	49	0.2	0.1	0.0
	Ilfracombe ...	o	odo	44	49	–	–	0.0
6	Aberystwyth	omr	omre	43	46	0.3	1	0.0
7	Llandudno ...	ro	doc	43	48	0.1	2	0.0
	Colwyn Bay...	oorc	o	44	49	–	1	0.0
	Rhyl	cpr	c	42	50	–	0.2	0.0
8	Wallasey ...	odor	ro	42	47	Tr.	1	0.0
	Southport‖ ...	odd	oro	43	45	0.2	2	0.0
	Blackpool ...	ood	oro	43	46	1	3	0.0
	Morecambe ...	cdpc	crdpc	38	46	1	4	0.0
9	Ilkley... ...	do	odo	37	46	Tr.	Tr.	0.0
10	Berwick-on-T.	c	c	39	(47)	–	–	0.4
11	Dunbar ...	c	c	42	50	–	–	0.2
12	Douglas ...	coirc	orRm	42	48	2	4	0.0

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



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

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

Districts	Forecast
1. S.E. England ▼ 2. E. England... 3. E. Midlands	Strong variable winds, stronger at times locally, becoming fresh northwesterly; cloudy with bright intervals but occasional rain or showers; rather cold; frost at night.
4. W. Midlands 5. S.W. England ▼ 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Fresh northwesterly to northerly winds; bright intervals, occasional showers; rather cold, frost inland at night.
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 16. Orkneys and Shetlands.	Fresh northwesterly to northerly winds; bright intervals, occasional showers with hail locally and sleet on high ground; rather cold; frost inland at night.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 4 - 9.

GENERAL INFERENCE.

A depression over the Northern North Sea is almost stationary but associated secondaries are likely to cross the British Isles from the West. Weather will be unsettled generally with some rain in the South and showers elsewhere but there will also be brighter intervals, especially later.

FURTHER OUTLOOK.

Bright periods, occasional showers, rather cold.

Time of issue of Gale Warning.
▼ South Cone at 0845 on 12th in 1 and 5.

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, 12th January 1931.

No. 25253.

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

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	1013.2	-30	SW'W	4	m₀	45	85	6	5	1	-	4-6	9	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	1015.1	-30	WSW	4	ir₀	45	85	8	5	2	-	4-6	10	1500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1014.0	-32	SW	4	o/d	43	95	6	5	-	-	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	55	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1009.8	-28	WSW	3	o	44	95	6	5	-	-	10	10	1500
	Cranwell ...	240	1008.5	-24	WSW	4	rr	43	95	6	6	2	-	9	10	1500
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1013.8	-34	WSW	5	c	48	85	7	4	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1017.4	-24	WSW	5	c	48	85	7	5	2	-	7-8	10	4000
	Scilly (St. Mary's)	163	1016.6	-40	W	7	r₀r₀	48	95	6	6	-	-	10	10	2500
	Guernsey ...	173	1017.7	-32	WSW	1	o	46	95	8	5	-	-	10	10	2500
6	Pembroke ...	142	1012.8	-10	NW	3	c	45	95	7	8	-	-	10	10	1500
7	Holyhead ...	26	1010.9	-12	NW'W	5	b	45	85	8	5	-	-	1	1	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	67	1006.3	-10	W	4	rr	43	95	6	6	-	-	10	10	2500
	Tynemouth ...	29	1006.7	-8	W	1	b	39	85	7	-	-	-	0	0	-
11	Inchkeith ...	190	1005.5	-16	WSW	4	bc	41	95	7	5	-	-	2-3	2-3	1500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1001.6	-16	WNW	3	c/pr	39	95	7	3	-	-	7-8	7-8	4000
15	Dalwhinnie ...	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1000.1	-12	WSW	3	bc	37	95	8	5	-	-	2-3	2-3	2500
16	Lerwick ...	54	995.7	-10	W'N	1	bc/pr	41	95	7	8	1	-	4-6	4-6	1500
17	Blacksod Point	10	1011.6	-20	W	5	bc	44	76	7	8	-	-	4-6	4-6	1500
18	Malin Head ...	51	1007.5	-24	W	4	pb(r)	43	85	7	3	-	-	4-6	4-6	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1016.4	-30	NW	4	b	45	95	9	-	-	-	0	0	-
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1006.8	-22	SW'W	2	o/d	43	95	5	6	-	-	10	10	1500	1	*
Croydon	1008.0	-20	SW'W	4	c/r	44	95	6	6	2	-	9	10	800	1	*
S. Farnborough	1007.5	-20	WSW	2	ir₀	43	95	6	5	1	-	9	10	1500	1	*
Winchester	1007.4	-18	W	3	c/r	42	95	7	5	-	-	9	9	2500	1	*
Boscombe Down	1008.2	-10	NW	3	bc/r	41	95	7	5	-	-	4-6	4-6	4000	1	*
Calshot (S'thmtn)	1007.9	-30	W	4	rr	45	95	7	6	2	-	4-6	10	1500	1	2
Dungeness	*	*	SW	4	d₀d₀	*	*	4	6	-	*	10	10	2500	*	3
Lympne	1007.6	-38	SW'W	3	rf	43	95	3	6	-	-	10	10	<150	1	*
Shoeburyness	1006.7	-16	WSW	2	r₀r₀	43	95	5	6	-	-	10	10	450	1	*
Felixstowe	1007.0	-16	W	2	rr	43	95	5	6	-	-	10	10	450	1	2
Gorleston	1004.3	-26	W	2	o	43	95	6	6	-	-	10	10	1500	1	2
Cranwell	1005.8	-14	W'N	3	b	37	95	6	-	3	-	0	1	-	1	*
Cardington	1006.8	-12	W'S	2	ir₀	42	95	6	5	2	7	4-6	10	1500	2	*
Birmingham	1007.1	-8	W	1	c	40	95	7	5	3	-	4-6	7-8	4000	1	*
Upper Heyford	1007.1	-12	W'N	2	ir₀	40	95	7	6	8-	8-	4-6	9	800	1	*
Leafield	1007.2	-10	NW'W	2	c	36	95	8	4	3	-	4-6	7-8	4000	1	*
Ross-on-Wye	1007.9	-14	WSW	1	bc	38	95	8	5	-	-	4-6	4-6	4000	1	*
Portland Bill	1007.8	-20	NNW	4	o/r	45	85	8	4	-	-	10	10	1500	2	3
Plymouth	1009.2	-22	NW	1	bc/r	43	85	8	9	-	-	4-6	4-6	2500	2	0
Falmouth	1010.6	-10	WNW	3	bc	44	85	8	5	-	-	4-6	4-6	4000	1	1
Scilly (St. Mary's)	1011.1	-28	NW'N	4	bc	45	85	8	2	-	-	4-6	4-6	4000	1	3
Guernsey	1010.3	-30	WSW	2	rr	47	85	6	6	-	-	10	10	1500	2	3
Pembroke	1008.3	-20	NW	3	bc/pr	44	85	8	8	8	1	4-6	4-6	1500	1	3
Holyhead	1006.9	-18	NW'W	5	c	43	95	8	7	8	-	9	9	1500	1	2
Chester (Sealand)	1007.1 (5.6)	-18	WSW	2	bc	40	85	8	5	-	-	4-6	4-6	4000	1	*
L'pool (Bidston)	1009.0	-20	WSW	4	c/d	40	95	9	9	-	-	7-8	7-8	2500	1	*
Harrogate	1005.3	-6	SW	1	bc	37	95	8	6	-	-	4-6	4-6	2500	1	*
Spurn Head	1004.4	-4	NW'W	3	bc	38	95	6	-	2	-	0	2-3	-	1	3
Tynemouth	1004.4	-10	W	2	bc	37	85	7	2	-	-	2-3	2-3	2500	1	2
Inchkeith	1002.2	-14	SW	3	b	39	95	8	-	4	-	0	1	-	0	!
Leuchars	1002.6	-6	WSW	3	b	33	95	8	-	3	-	0	1	-	4	*
Renfrew	1003.5	-14	W	3	bc/pr	38	95	7	8	6	-	4-6	4-6	4000	1	*
Eskdalemuir	1003.9	-14	SSW	3	c	33	95	7	5	-	-	7-8	7-8	1500	1	*
Tiree	1003.1	-4	NW'W	3	pr	42	85	7	3	7	3	2-3	4-6	1500	1	2
Stornoway	1000.7	+2	WNW	1	c	39	95	7	3	-	-	7-8	7-8	4000	2	1
Dalwhinnie	1002.6	-6	W	1	c	35	85	8	5	3	-	7-8	9	2500	4	*
Aberdeen	1000.2	0	-	0	bc	34	95	6	-	3	-	0	2-3	-	5	1
Wick	998.5	-6	W	3	pr₀	35	95	8	9	7	-	4-6	7-8	1500	1	2
Lerwick	996.9	-14	ENE	4	c/pr	42	75	7	8	1	-	4-6	7-8	1500	1	*
Blacksod Point	1008.3	-12	WNW	5	PR	42	85	8	3	-	-	4-6	4-6	1500	1	4
Malin Head	1004.2	-12	NW	4	bc/p	42	85	7	3	6	-	2-3	4-6	1500	1	3
Aldergrove	1005.8	-16	S'W	2	bc	34	95	7	5	1	-	4-6	4-6	1500	1	*
Donaghadee	1005.2	-10	W	1	b	34	85	7	5	-	-	1	1	4000	0	0
Birr Castle	1008.3	-18	S	1	bc	35	95	8	5	-	-	4-6	4-6	2500	1	*
Valentia Obsy.†	1010.7	-18	NW	3	c/pr	42	85	8	8	-	-	9+	9+	1500	1	3
Roches Point	1010.0	-20	NW	3	bc	40	95	8	5	-	-	4-6	4-6	1500	0	3

PAST 24 HOURS.

Stations	Temperature Max. Day 7h-18h °F. (31)	Temperature Min. Night 18h-7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h-18h mm. (34)	Rainfall Night 18h-7h mm. (35)	Sunshine 11th Hrs. (36)
London (Kew)	45	43	41	Tr.	2	0.6
Croydon	47	44	39	Tr.	1	1.5
S. Farnborough	49	43	40	-	2	1.2
Winchester	43	41	40	Tr.	3	0.0
Boscombe Down	43	40	38	0.3	2	*
Calshot (S'thmtn)	46	44	40	0.1	2	0.5
Dungeness	46	44	*	Tr.	1	*
Lympne	43	40	39	0.1	3	0.8
Shoeburyness	45	42	40	-	4	0.6
Felixstowe	43	41	40	Tr.	4	0.1
Gorleston	45	43	41	Tr.	2	0.3
Cranwell	45	36	32	1	4	0.0
Cardington	45	41	40	0.3	3	0.4
Birmingham	45	39	35	Tr.	4	0.0
Upper Heyford	44	40	37	2	3	?
Leafield	44	36	31	0.5	5	0.0
Ross-on-Wye	47	37	29	0.6	2	0.2
Portland Bill	49	44	*	-	4	*
Plymouth	48	43	41	0.4	4	0.0
Falmouth	49	44	*	0.1	5	0.1
Scilly (St. Mary's)	50	44	*	0.5	2	0.0
Guernsey	51	46	41	-	2	1.9
Pembroke	49	42	*	-	3	0.0
Holyhead	48	42	39	2	2	0.0
Chester (Sealand)	49	40	36	Tr.	3	0.0
L'pool (Bidston)	48	40	37	0.4	6	0.0
Harrogate	45	37	32	1	1	0.0
Spurn Head	45	38	*	0.1	4	0.0
Tynemouth	49	37	32	0.1	1	*
Inchkeith	48	37	35	-	-	0.2
Leuchars	49	32	25	-	-	0.2
Renfrew	49	37	30	2	0.1	0.0
Eskdalemuir	46	33	30	9	0.3	0.0
Tiree	49	41	35	1	2	0.9
Stornoway	49	38	*	2	4	3.0
Dalwhinnie	47	29	*	2	0.1	0.4
Aberdeen	50	34	25	1	-	0.6
Wick	47	35	*	4	0.6	*
Lerwick	45	38	*	1	1	0.7
Blacksod Point	50	40	*	4	3	*
Malin Head	48	41	*	11	1	0.0
Aldergrove	47	33	31	7	Tr	0.0
Donaghadee	50	34	*	4	0.4	*
Birr Castle	48	33	28	1	0.2	0.0
Valentia Obsy.†	51	40	38	2	4	0.0
Roches Point	50	40	*	-	2	*

LONDON OBSERVATIONS.

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

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	c m₀	c m₀	caf₀rrcd₀	45	43	41	Tr	2	0.6	•	•	4
Croydon ...	217	cbcm₀	bcf₀ir₀	cf₀mr₀f₀r₀	47	44	39	Tr	1	1.5	•	•	6
Greenwich (Royal Observatory) ...	149	c m	c m	cricrm	46	43	39	-	2	0.4	86	95	4
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	46	39	38	2		0.1	92	93	•
Regents Pk. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•		•	•	•
Camden Square ...	110	o	oco	•	43	42	40	1	2	•	•	94	•
Kensington Palace ...	80	o	oro	•	45	43	39	0.2	2	•	-At 18h. 90	96	•
Hampstead Observatory ...	450	ocr	o	•	43	39	37	2	3	0.0	•	95	•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

South Kensington. Max.	Time.	Min.	Time.
1.3	11h 11th	<0.3	0-6h 12th

Kew Observatory. Max.	Time.	Min.	Time.
Defective Record			

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 11th Jan. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 12th Jan. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris ...	1026.3	S	2	of	36	1015.1	SW	3	d₀d₀	36	36	34	-	0.2
Brussels ...	1022.3	SW	3	3	34	1010.7	SSW	3	ir₀	34	34	34	0.1	3
Berlin ...	1022.6	·	3	3	36	1011.7	SW	3	c	32	36	32	Tr	-
Zürich ...						1020.3	N	1	f	14		14		-
Rome ...	1014.5	NNE	3	c	41	1013.5	WNW	3	c	36	48	34	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

Objects not visible at
0 Dense fog 55 yards.
1 Thick fog 220 „
2 Fog 550 „
3 Moderate fog 1,100 „
4 Mist or haze 1½ miles.
5 Poor visibility 2½ „
6 Moderate „ 6¼ „
7 Good „ 12½ „
8 Very good „ 31 „
9 Excellent „ beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

TUESDAY, 13th January 1931.

No. 25,254.

District	Stations. (For heights see p. 4.)	Obs. 13h. G.M.T. 12th January: Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind Direc. (3)	Wind Force 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud Form Low. (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0-10 (12)	Cloud Amount Total 0-10 (13)	Height of Base (feet) (14)	Obs. 18h. G.M.T. 12th January: 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)	Past 24 Hours Weather 7h.–13h. 12th (37)	13h.–18h. 12th (38)	18h. 12th to 1h. 13th (39)	1h.–7h. 13th (40)
1	London (Kew)	1004.6	-26	NNW	2	m	43	85	4	5	-	-	9	9	1500	1004.2	0	N'W	1	c	42	85	5	5	-	-	9	9	2500	1	*	orm.cm	bccm.	cm	om.r.
	Croydon	1005.4	-16	NNW	1	f	43	95	2	5	-	-	9+	9+	2500	1004.7	-6	SSW	1	rf	40	95	3	5	-	-	10	10	1500	1	*	cm.mf	cbcffr.	r.off	omr.r.m.
	S. Farnborough	1004.6	-22	NW	2	c	45	75	7	7	3	-	4-6	7-8	4000	1004.3	+2	NNW	1	m	40	95	4	5	-	-	10	10	2500	1	*	or.m.bc	bccm.	cm	cmr.
	Winchester	1004.4	-22	NW	2	c	45	75	7	1	3	4	4-6	7-8	4000	1004.0	-2	N	2	c	39	85	7	5	-	-	9+	9+	4000	1	*	cbbc	bcc	cbc	bccm.
	Boscombe Down	1005.9	-14	NW	3	c	43	75	7	1	3	2	1	7-8	4000	1004.3	-4	NNW	1	c	37	95	6	5	3	-	7-8	9	1500	1	*	bcbcc	cm.	cm.bm.cm	cr.cm.
	Calshot, S'thmtn	1004.8	-22	NNW	3	bc	45	75	6	8	-	4	1	2-3	2500	1004.0	-6	NNW	2	bc	40	85	6	5	-	-	4-6	4-6	4000	1	0	errcbcm	bccm.	bcm.bmcm.	cm.bcm.
	Dungeness	*	*	~~NW~~ NW	2	r.r.	*	*	5	3	-	-	10	10	1500	*	*	NW	2	z	*	*	5	5	-	*	9+	9+	1500	*		r	p	*	r
	Lympne	1003.9	-26	NW	2	r.r.	44	95	5	6	-	-	10	10	800	1003.3	+2	N'W	3	z	40	95	5	5	-	-	9	9	2500	1	*	or.r.fm.	or.cm.	com.	od.r.r.m.
2	Shoeburyness	1004.7	-14	NNE	2	c	44	95	8	4	3	-	4-6	9	4000	1004.0	0	NW	1	c	39	95	7	5	-	-	10	10	4000	1	*	o.rd.dc	c	cbx	bcor.
	Felixstowe	1004.7	-16	NW'N	1	z	43	95	6	5	-	-	9+	9+	4000	1004.1	-6	NNW	1	bc	36	85	7	5	-	-	4-6	4-6	4000	1	0	emrrcicm	cm.boz.	bcb	cr
	Gorleston	1004.1	-4	WNW	2	bc	43	95	6	-	6	-	0	2-3	-	1003.9	0	NW	1	m	37	95	4	5	-	-	4-6	4-6	1500	1	1	ocm.m.	bcmm	bcmffx	bcfxc
	Cranwell	1003.7	-18	W'S	2	bc	42	85	5	7	3	-	2-3	4-6	4000	1003.9	+2	W	2	f	35	95	3	5	-	-	4-6	4-6	4000	1	*	bmcmbc	bcbmbcf	bcfcm	cm.pr.
3	Cardington	1005.4	-12	NW'N	1	c	43	85	7	8	7	8	9	9	4000	1004.2	+6	N'W	1	c	39	85	6	5	-	-	9+	9+	2500	2	*	cr.cm.	cm.	cm.	cwm.
	Birmingham	1004.8	-14	WNW	1	bc	41	85	5	5	-	1	4-6	4-6	4000	1004.9	+2	NNW	2	c	40	85	5	5	-	-	10	10	2500	1	*	r.bc	bcc	c	cpr
	Upper Heyford	1004.6	-22	N'W	2	bc	44	75	8	5	-	4	2-3	4-6	4000	1004.8	+4	NNW	2	c	39	95	7	5	-	-	10	10	2500	1	*	bc	bcc	cm	cm
	Leafield	1004.3	-14	NW	2	bc	42	85	8	1	-	6	4-6	4-6	4000	1004.4	0	NW'N	2	c	37	85	8	5	-	-	7-8	7-8	4000	1	*	bcbbc	bcc	c	co
4	Ross-on-Wye	1004.7	-20	NW	3	bc	46	75	8	7	-	2	~~4-6~~ 2-3	4-6	4000	1004.7	0	SW'W	1	bc	38	85	6	5	-	-	2-3	2-3	2500	1	*	bc	bccbc	bcc	com
5	Portland Bill	1005.0	-18	NW	3	c	45	85	8	8	4	8	2-3	7-8	1500	1002.6	-8	NW	3	bc	42	85	6	4	-	-	4-6	4-6	2500	1	3	c	cbc.	bc.	bcm
	Plymouth	1005.6	-30	WNW	1	c	46	85	8	9	3	8	7-8	9	1500	1004.4	-4	N	3	c	41	85	7	8	-	1	4-6	7-8	2500	2	0	bcm.c	cpre	bcb	bbcw
	Falmouth	1006.5	-12	N'W	4	r.r.	45	75	7	6	2	-	7-8	9	2500	1005.4	0	N	3	c	40	95	7	3	2	-	4-6	9	4000	1	1	bccR	cR	cp.bc	bc
	Scilly (St. Mary's)	1006.3	-32	NW	4	bc	47	85	8	3	-	-	4-6	4-6	4000	1005.2	-4	N	5	c	43	95	8	3	-	-	7-8	7-8	4000	1	3	bccp	cprh	cpbcp	cqphr
	Guernsey	1005.8	-26	NW	1	PR	48	75	7	6	-	-	7-8	7-8	2500	1003.6	-10	-	0	bc	44	75	9	5	-	-	4-6	4-6	1500	1	3	orbcc	cbcv	bccbc	bcbcc
6	Pembroke	1005.4	-12	NNW	3	bc	42	85	8	8	7	9	2-3	4-6	1500	1004.7	0	NNE	2	PR	40	95	8	8	8	9	2-3	4-6	1500	1	1	bccrbc	bc	clr	bc
7	Holyhead	1005.5	-10	NW	4	c	43	85	8	4	-	-	7-8	7-8	2500	1005.3	+2	N'W	4	c/pr	43	85	8	8	-	-	7-8	7-8	1500	1	2	bcc	c.pr	prprh	pr.
	Chester (Sealand)	1004.9	-14	NW'N	2	c/pr.	42	95	7	8	3	1	7-8	9	1500	1005.3	+6	-	0	pr.	37	95	5	8	-	-	7-8	7-8	1500	1	*	bcm.pr.	pr.bcm.	prcm.	cm.pr.
8	L'pool (Bidston)	1003.9	-2	W	2	c	41	95	8	3	-	-	7-8	7-8	2500	1004.5	+2	NW	1	c	40	95	8	8	-	-	7-8	7-8	2500	1	*	phidc	c	c	cbccp
9	Harrogate	1003.3	-6	SW	2	b	43	75	8	9	-	-	1	1	2500	1004.3	+6	WSW	1	c	38	85	7	6	2	-	7-8	10	2500	1	*	bcb	bbcc	cr.	cir
10	Spurn Head	1003.0	-4	NW'W	3	c	41	85	5	5	-	-	7-8	7-8	800	1003.2	0	NWN	1	m	39	95	4	5	-	-	10	10	450	0	3	bcc	bccom	omzebc	bccprq
	Tynemouth	1001.8	-6	W	2	bc	43	85	6	5	-	-	2-3	2-3	1500	1004.4	+14	W	2	o	39	85	6	6	-	-	10	10	1500	1	1	bc	bco	oirq	oirq
11	Inchkeith	1002.6	0	WSW	2	bc	41	85	6	-	8	-	0	2-3	-	1004.5	+12	NW	3	bc	40	85	8	-	4	-	0	2-3	-	0	1	bcb	bc	bcir.	cbc
	Leuchars	1002.4	-2	WNW	3	c	41	75	8	7	7	-	7-8	7-8	4000	1004.5	+14	NW	1	pr.	38	85	7	5	-	-	9+	9+	2500	1	*	bxc	cb.cp.	cpr.PRcbc	bcb
12	Renfrew	1003.5	-4	W'N	2	bc	44	75	7	2	4	-	1	2-3	4000	1006.1	+24	ESE	1	bc	33	95	7	4	-	-	4-6	4-6	4000	1	*	bccmbc	bc	bcbbcx	bccx
	Eskdalemuir	1002.8	-6	WNW	2	c	39	85	8	5	-	-	9	9	2500	1004.9	+20	N'E	2	c	35	85	8	5	-	-	7-8	7-8	1500	1	*	cxmc	cbc	bcprs.	bcprsbcps
13A	Tiree	1004.5	+6	N	5	c	43	75	9	8	5	3	7-8	7-8	1500	1008.5	+28	N	7	cjp	42	85	7	8	2	3	4-6	10	1500	1	4	bcpr	bccpr	cpr.	c
13B	Stornoway	1005.3	+16	NNE	4	c	39	95	8	6	1	-	9	10	4000	1011.0	+36	N	6	c	37	95	7	9	-	-	7-8	7-8	4000	2	3	cir	cP	cps.bc	bcps.
15	Dalwhinnie	1003.0	+2	NNW	1	r.s.	37	85	8	5	-	-	7-8	7-8	2500	1006.5	+24	NNE	3	ss	32	95	3	-	-	-	10	10	<150	7	*	prc	cpso	opsc	bc
	Aberdeen	1001.4	+2	WNW	2	bc	40	85	8	8	-	-	2-3	2-3	2500	1005.2	+30	NNW	3	pr	39	85	7	9	-	-	7-8	7-8	2500	1	1	bcb	bccpr	cpr	cps
	Wick	1001.3	+16	NNE	5	pr	42	95	8	6	7	-	7-8	9+	1500	1007.0	+28	NNE	5	c	40	85	8	9	7	-	7-8	9	1500	1	4	cprcprq	cprqRrc	cbc	bcpcphbc
16	Lerwick	1003.1	+20	NE	5	prs	40	85	7	8	2	-	4-6	9	1500	1007.1	+30	NE	5	bc	35	85	8	8	-	-	4-6	4-6	1500	1	*	cprs	cprsbc	cbcpsh	bcpsh
17	Blacksod Point	1008.4	+4	WNW	5	c	44	75	8	~~23~~	-	-	7-8	7-8	~~800~~ 2500	1011.2	+22	NW	6	q	43	75	7	3	-	-	4-6	4-6	~~800~~ 2500	1	5	phrq	prqc	prqc	prqc
18	Malin Head	1004.8	0	N'W	5	bcjp	44	75	8	3	-	-	4-6	4-6	2500	1007.4	+20	N	6	bcpr	43	95	7	3	-	-	4-6	4-6	1500	1	4	bcphr	bcpr	bccbcpr.	bcpr.bc
	Aldergrove	1005.0	-6	-	0	c	39	95	8	8	4	2	4-6	7-8	800	1006.3	+10	NW	1	bcpr	36	95	7	8	-	-	4-6	4-6	1500	1	*	bcxc	cpr.prbc	bccpr	cps.
	Donaghadee	1004.2	-4	WSW	2	bc	40	85	8	5	-	4	2-3	4-6	4000	1005.0	+4	WSW	2	pr.	41	85	7	3	-	-	4-6	4-6	2500	1	1	bbc	bcpr.	pr.bc	bccq
19	Birr Castle	1007.2	-6	NW	1	c	40	95	8	5	-	-	9+	9+	2500	1007.9	+6	NNW	1	bc	36	95	8	5	-	-	4-6	4-6	2500	1	*	bcc	cbc	bcbx	bxbc
20	Valentia Obsy.	1009.2	-12	NNW	4	bcjp	43	85	8	6	-	-	4-6	4-6	1500	1010.6	+10	NW'N	3	pr.	42	85	8	8	-	-	4-6	4-6	1500	1	3	cphcpp.bc	bccphbcp.	bccp.	cp.bc
	Roches Point	1007.4	-14	NW	3	bc	43	75	8	3	-	-	4-6	4-6	1500	1008.3	+14	N	4	bc	42	85	8	3	-	-	2-3	2-3	1500	0	3	bc	bccbc	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.
m, mist, ,, 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,

R, heavy rain. r_o, slight rain.
rr, continuous rain.

<, less than (for cloud height).

⊕, solar halo. ☽, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

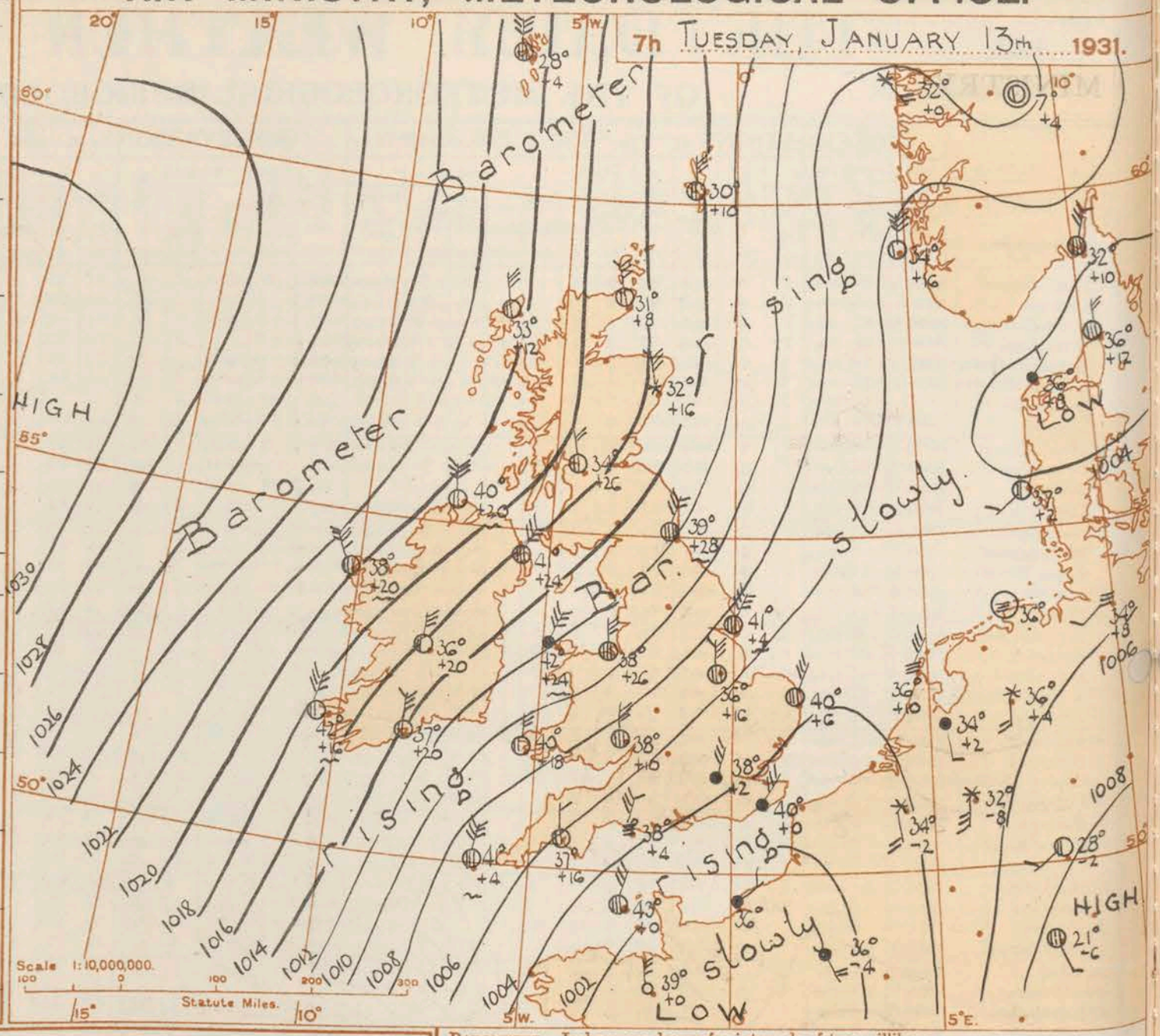
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 12th January 1931.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 11th to 9h. 12th	Temperature. Max. 9h.—17h. 12th	Rainfall. Night. 17h. 11th to 9h. 12th	Rainfall. Day. 9h.—17h. 12th	Sunshine. Sunrise to Sunset. 12th.
1	Tunbridge W.	o	oco	35	44	3	-	0.0
	Bournemouth	mb	b bm	39	45	3	-	5.0
	Ventnor ...	rcob	bc	43	46	5	-	4·0
	Southsea ...	ocb	bbec	41	46	3	-	4·2
	Bognor Regis	cbc	bc	35	46	4	-	3.7
	Littlehampton	cbc	bcc	35	47	3	-	2.7
	Worthing ...	o	bcc	36	45	3	-	1·5
	Brighton ...	rco	obc	38	46	3	Trace	0·2
	Eastbourne†	rro	o	45	47	5	2	0.0
	Hastings† ...	omro	oco	44	46	3	2	0.0
	Folkestone ...	orfod	oirm.	38	46	5	1	0.0
	Dover... ...	m.oir	m.oid	41	45	3	2	0.0
	Deal	or	ro	40	45	3	1	0.0
	Ramsgate ...	cr	rc	43	44	6	1	0.0
	Margate ...	cd	c	39	45	5	Trace	0.0
2	Southend ...	odfmc	co	38	43	3	Trace	0.0
	Maldon ...	ropc	bcc	42	44	4	Trace	0.6
	Clacton-on-Sea	ogmrc	cbc	37	43	5	0·5	0.5
	Dovercourt ...	rbc	rbc	39	45	5	0·6	1·2
	Lowestoft ...	cm.bc	bcbbz	33	41	1	-	3.5
	Skegness ...	om.bc	bcmo	34	43	3	Trace	5·3
	Mablethorpe	bxbcm	bcm.	34	43	3	-	4.8
	Cleethorpes ...	cb	bm	30	43	6	-	5·2
3	Leamington S.	bcc	c	35	43	3	-	3·1
4	Cheltenham†	cm.b	bccm.	35	45	5	-	3·5
5	Bath	b	bbcc	34	44	4	-	5.0
	Weymouth ...	b	cbccb	38	46	6	-	4·5
	Jersey ...	rcrbc	cz	41	48	5	2	0·3
	Torquay ...	orpbmwf	bbcp	36	46	3	Trace	4·4
	Penzance ...	cbcir	cbcir	41	46	7	2	2·2
	St. Ives ...	c	pr	43	47	4	2	1·4
	Bude	rbc	cor	42	49	10	2	2·3
	Ilfracombe ...	bcpc	bcpc	44	46	7	3	3·1
6	Aberystwyth	cprc	cpr	42	43	5	0·5	2·2
7	Llandudno ...	cbc	crc	41	48	7	1	3·0
	Colwyn Bay...	cb	brbcc	39	44	6	1	1·8
	Rhyl	cprbc	bccr	39	45	3	2	3·2
8	Wallasey ...	cbcp	bcp	40	43	6	2	0.4
	Southport‖ ...	oc	cbcb	39	44	3	-	2.0
	Blackpool ...	bc	cbc	38	45	3	-	5.7
	Morecambe ...	rcbbc	bbcdc	38	43	5	1	3·0
9	Ilkley... ...	cbc	bbcc	36	43	2	-	2.4
10	Berwick-on-T.	bc	bc	34	41	-	-	5.7
11	Dunbar ...	bcm	bc	36	41	-	-	2·8
12	Douglas ...	bccbc	cbcirch	38	48	2	1	3·8

† 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 the wind. Number of feathers indicate Beaufort force. Calm. - ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◯ Sky less than 1/10 clouded. ◐ Sky 1/10 to 1/10 clouded. ◑ Sky 1/10 to 1/10 clouded. ◒ Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. K Thunderstorm.
SEA DISTURBANCE. ~~ Rough. ≈≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 13th Jan., 1931.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Fresh northerly winds, strong at times locally; bright intervals, occasional showers of rain or sleet; cold; sharp frost at night.
5. S.W. England ▲ 6. South Wales 7. North Wales	Fresh or strong northerly winds, slowly moderating; bright periods, occasional showers of rain or sleet; cold; sharp frost at night.
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W. Scotld ▲ B. N.W. Scotland. ▲ 14. Mid-Scotland 15. N.E. Scotland 16. Orkneys and Shetlands. 17. N.W. Ireland ▲ 18. N.E. Ireland ▲ 19. S.E. Ireland 20. S.W. Ireland ▲	Fresh or strong northerly winds, slowly moderating; bright intervals, showers of rain, sleet or snow; cold; sharp frost at night.

GENERAL INFERENCE.

An anticyd one off the western seaboard is spreading eastward. Winds will be mainly northerly, strong locally, and weather cold with bright periods and occasional showers with hail, sleet or snow in places, especially in the North.

FURTHER OUTLOOK.

Northerly winds, bright periods, occasional showers; cold.

Time of issue of Gale Warning.

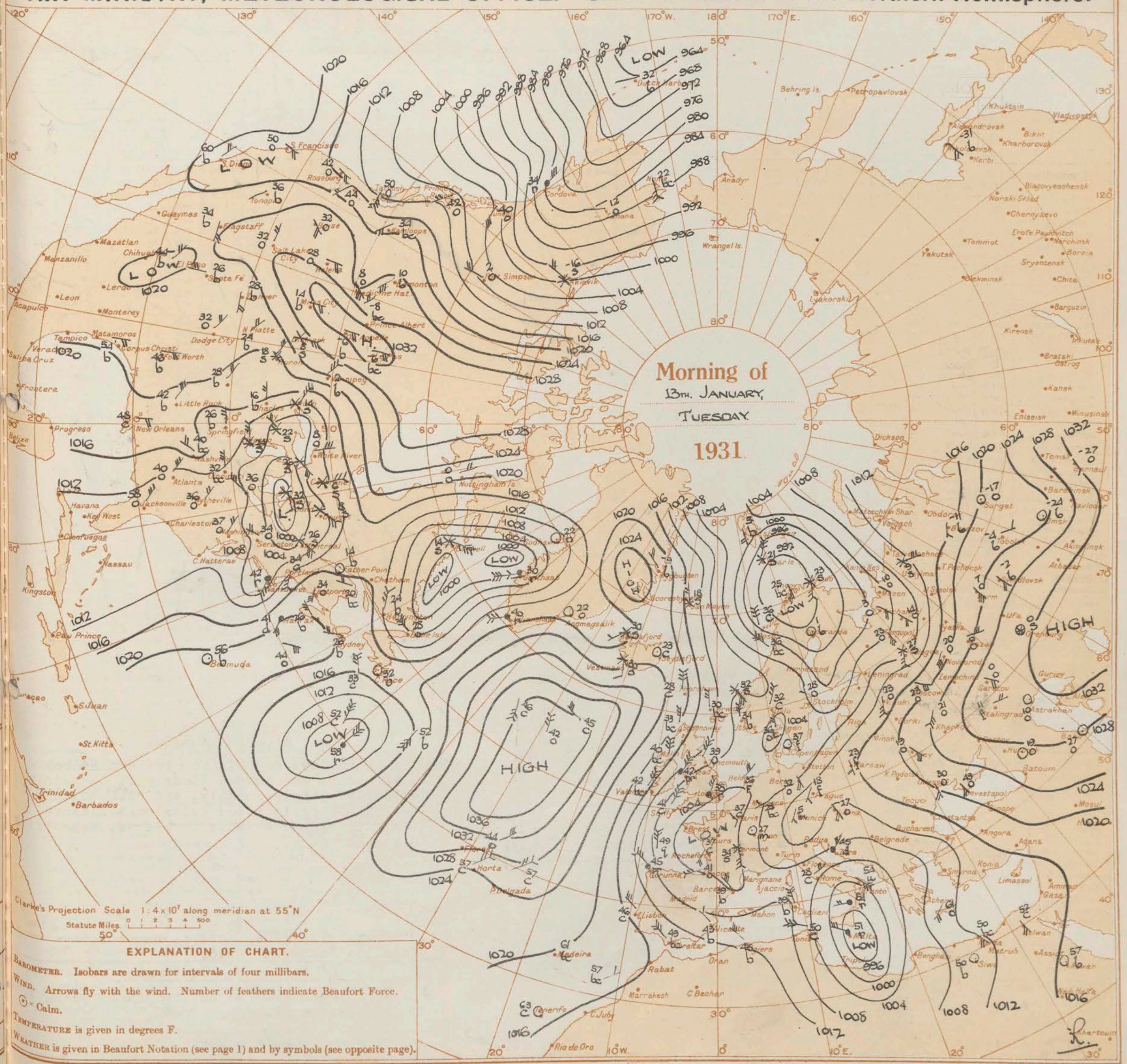
▲ North Cone at 0220 on 13th in 5, 13A., 13B. 17, 18 and 20.

Forecasts issued at 1000 G.M.T.

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

H.M. Stationery Office Press, Kingsway, W.C.2. No. 2423/2174. No. 28. D.6026. 1900. 1/31.

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



EXPLANATION OF CHART.

Barometer. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

Temperature is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

TUESDAY 13th January 1931.

No. 25,284

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

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	1004.8	0	N'E	2	m	39	95	4	5	-	-	10	10	450
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1004.1	0	NW'N	3	c	39	85	6	5	-	-	10	10	2500
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1003.2	-2	N	4	z	37	95	5	5	-	-	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	55	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	1004.0	+4	NNW	1	F	34	95	1	5	-	-	4-6	4-6	<150
	Cranwell	240	1005.5	+10	NNW	2	m	35	95	4	5	-	-	9+	9+	4000
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1003.6	0	NNE	4	bc	39	85	6	4	4	-	2-3	4-6	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	1006.6	+2	N'W	2	bc	39	85	8	3	-	-	4-6	4-6	4000
	Scilly (St. Mary's)	163	1006.0	0	N'E	6	q	42	95	8	3	-	-	4-6	4-6	4000
	Guernsey	173	1003.3	0	NNE	1	bc	43	75	8	5	-	-	4-6	4-6	2500
6	Pembroke	142	1005.9	+2	N	3	bc	38	95	7	3	-	1	4-6	4-6	1500
7	Holyhead	26	1007.5	+10	NE	5	c	44	85	7	8	-	-	10	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	67	1004.8	0	N'W	3	bc	37	95	6	5	-	-	4-6	4-6	800
	Tynemouth	29	1007.2	+12	ENE	4	r6	41	95	7	6	-	-	10	10	1500
11	Inchkeith	190	1010.4	+22	N	5	c	38	85	8	5	7	-	4-6	9	1500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1017.7	+22	NNE	3	ps	33	95	7	3	-	-	4-6	4-6	4000
15	Dalwhinnie	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1013.8	+20	NNE	5	bc	35	85	8	3	1	-	4-6	4-6	2500
16	Lerwick	54	1012.5	+16	NW	3	psh	31	75	7	8	-	-	4-6	4-6	1500
17	Blacksod Point	10	1017.3	+12	NW	7	q	42	75	7	3	-	-	7-8	7-8	450
18	Malin Head	51	1014.1	+24	N	7	bc/pr	42	85	7	3	-	-	4-6	4-6	2500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1014.0	+14	N	7	bc	44	75	8	6	-	-	2-3	2-3	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1004.8	+6	N'E	3	r6	38	85	5	5	-	-	10	10	1500	1	*
	Croydon	1005.2	+2	N'E	3	r6r6	38	95	5	6	-	-	10	10	450	1	*
	S. Farnborough	1004.9	+2	N	2	r6	37	95	4	6	-	-	10	10	1500	1	*
	Winchester	1005.0	0	N'E	3	c	35	95	5	5	-	-	9+	9+	2500	1	*
	Boscombe Down	1005.4	+8	N	3	c	34	95	6	5	-	-	10	10	1500	1	*
	Calshot, (S'thmtn)	1004.1	0	N	4	c	37	85	6	5	-	-	7-8	7-8	4000	1	1
	Dungeness	*	*	ESE	4	rr	*	*	4	6	-	*	10	10	800	*	2
	Lympne	1002.9	0	NE	3	d.d.	40	95	5	6	-	-	10	10	450	1	*
2	Shoeburyness	1004.3		NE'N	3	o/r6	38	95	6	5	-	-	10	10	1500	1	*
	Felixstowe	1004.9	+6	NNE	3	ir	38	95	7	6	2	-	7-8	10	1500	1	2
	Gorleston	1005.0	+6	NE'N	3	c	40	95	7	4	1	-	4-6	9	4000	1	2
	Cranwell	1007.6	+16	N	4	c/pr6	36	95	6	5	2	-	7-8	10	4000	1	*
3	Cardington	1006.9	+6	NNE	3	c	36	95	6	5	-	-	9	9	1500	1	*
	Birmingham	1008.4	+12	NNE	3	c	37	95	5	5	-	-	10	10	2500	1	*
	Upper Heyford	1006.6	+14	NNW	3	m	36	95	4	5	-	-	10	10	1500	1	*
	Leafield	1006.3	+6	N'E	3	o	35	95	5	5	-	-	10	10	1500	1	*
4	Ross-on-Wye	1007.6	+10	N	3	m	38	85	4	5	-	-	10	10	800	1	*
5	Portland Bill	1004.0	+4	N'E	4	m	38	95	4	4	4	-	2-3	4-6	1500	1	3
	Plymouth	1005.9	+16	N	1	bc	37	85	7	3	-	-	2-3	2-3	2500	2	0
	Falmouth	1006.9	+4	N	4	bc	38	95	8	3	-	-	4-6	4-6	4000	1	1
	Scilly (St. Mary's)	1006.4	+4	NNE	6	c	41	95	8	3	-	-	7-8	7-8	4000	1	4
	Guernsey	1002.8	0	NNE	3	c	43	75	7	5	-	-	7-8	7-8	2500	1	3
6	Pembroke	1007.8	+14	N	3	bc	40	95	8	8	8	1	4-6	4-6	1500	1	1
7	Holyhead	1011.5	+24	NE	6	pr6	42	95	8	8	-	-	9	9	1500	1	4
	Chester (Sealand)	1010.9	+26	N	3	c/pr6	38	95	6	5	-	-	7-8	7-8	1500	1	*
8	L'pool (Bidston)	1010.8	+28	N'E	4	c	37	85	8	8	-	8	4-6	7-8	2500	1	*
9	Harrogate	1012.2	+26	N	3	b	34	95	7	6	-	-	1	1	2500	1	*
10	Spurn Head	1006.7	+4	NE'E	6	c	41	85	7	3	2	-	7-8	10	4000	1	4
	Tynemouth	1012.0	+28	NNE	5	o/r6	39	85	7	6	.-	-	10	10	1500	1	4
11	Inchkeith	1015.3	+20	NNE	5	bc	34	85	8	5	8	-	1	2.3	2500	0	3
	Leuchars	1016.6	+30	NNW	3	b	32	75	8	-	-	-	0	0	-	4	*
12	Renfrew	1017.9	+26	NNW	2	c	34	65	7	5	7	-	2-3	7-8	4000	4	*
	Eskdalemuir	1015.4	+22	NNE	5	bc	31	85	8	5	4	-	2-3	2-3	1500	6	*
13A	Tiree	1019.6	+20	N	6	bc/ph(r)	36	75	9	3	-	3	4-6	4-6	1500	0	4
13B	Stornoway	1020.6	+12	N	3	bc	33	85	7	3	-	-	4-6	4-6	4000	6	2
15	Dalwhinnie	1015.1	+16	N	4	bc	25	95	8	5	-	-	2-3	2-3	4000	7	*
	Aberdeen	1016.0	+16	NNW	4	ps	32	95	8	9	-	-	9	9	1500	8	2
	Wick	1016.9	+8	N	4	bc	31	95	8	4	6	-	2-3	4-6	2500	5	3
16	Lerwick	1014.4	+10	N	3	bc	30	85	8	5	-	-	2-3	2-3	1500	7	*
17	Blacksod Point	1020.7	+20	NW	7	q	38	85	7	3	-	-	7-8	7-8	450	0	5
18	Malin Head	1018.3	+20	N	6	bc	40	85	8	2	-	-	4-6	4-6	2500	0	4
	Aldergrove	1018.1	+18	N'W	4	ps	35	95	7	9	-	-	9	9	1500	1	*
	Donaghadee	1016.1	+24	NE	6	q	41	65	7	6	-	-	7-8	7-8	1500	0	3
19	Birr Castle	1016.3	+20	N	3	bc	36	85	8	-	3	-	0	4-6	-	1	*
20	Valentia Obsy.†	1017.6	+16	NNE	6	bc/pr6	42	65	8	8	-	-	4-6	4-6	2500	1	4
	Roches Point	1013.5	+20	N	4	bc	37	85	8	3	-	-	2-3	2-3	1500	0	3

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h-18h °F. (31)	Temperature Min. Night 18h-7h °F (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h-18h mm. (34)	Rainfall Night 18h-7h mm. (35)	Sunshine 12th Hrs. (36)
1	London (Kew)	45	37	31	0.1	Tr	1.1
	Croydon	44	37	30	Tr	0.3	0.0
	S. Farnborough	45	34	28	0.1	Tr	2.2
	Winchester	45	33	31	-	-	4.6
	Boscombe Down	44	33	31	-	0.2	
	Calshot, (S'thmtn)	45	36	31	0.3	Tr	4.4
	Dungeness	46	37	*	4	4	*
	Lympne	44	37	35	2	1	0.0
2	Shoeburyness	45	31	29	1	0.5	0.0
	Felixstowe	44	31	28	0.5	0.2	1.3
	Gorleston	45	33	30	-	-	3.0
	Cranwell	42	33	31	-	Tr	3.3
3	Cardington	43	36	31	0.1	Tr	0.4
	Birmingham	42	35	33	Tr	0.4	3.3
	Upper Heyford	44	34	30	0.1	-	
	Leafield	42	33	29	-	-	5.3
4	Ross-on-Wye	(46) 45	35	31	-	-	6.0
5	Portland Bill	47	36	*	-	-	*
	Plymouth	46	36	31	1	-	2.4
	Falmouth	47	37	*	3	Tr	2.7
	Scilly (St. Mary's)	48	38	*	2	3	2.5
	Guernsey	48	43	34	2	0.1	2.4
6	Pembroke	45	36	*	3	1	1.0
7	Holyhead	44	39	36	0.3	1	2.1
	Chester (Sealand)	43	37	35	1	1	1.3
8	L'pool (Bidston)	42	36	35	2	0.1	0.6
9	Harrogate	43	34	31	-	1	6.3
10	Spurn Head	41	37	*	-	2	6.0
	Tynemouth	43	37	31	-	2	*
11	Inchkeith	42	32	33	-	Tr	3.5
	Leuchars	42	32	26	0.1	1	4.8
12	Renfrew	45	33	27	-	-	4.7
	Eskdalemuir	39	30	27	-	3	0.2
13A	Tiree	44	34	31	0.5	0.6	2.5
13B	Stornoway	41	30	*	5	0.2	0.0
15	Dalwhinnie	37	220	*	1	2	0.1
	Aberdeen	40	30	27	1	1	1.5
	Wick	42	31	*	2	0.3	*
16	Lerwick	42	30	*	1	12	0.0
17	Blacksod Point	45	38	*	4	3	*
18	Malin Head	44	37	*	2	0.3	1.7
	Aldergrove	41	34	30	0.1	0.5	2.1
	Donaghadee	43	40	*	0.3	0.5	*
19	Birr Castle	41	34	30	-	-	3.4
20	Valentia Obsy.†	44	40	38	4	1	1.3
	Roches Point	45	36	*	-	-	*

LONDON OBSERVATIONS.

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

	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	om,cm	bccm	cmomr	45	37	31	0.1	Tr	1.1	*	*	5
CROYDON	217	cm,mf	cbcfr	cqfmcr	44	37	30	Tr	0.3	0.0	*	*	4
GREENWICH (Royal Observatory)	149	cm	cm	cxcrm	44	37	28	-	0.3	0.1	83	91	4
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
WESTMINSTER (St. James' Park)	27	*	*	*	44	38	34	-	-	0.0	80	87	*
REGENTS PK. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	0.3	*	*	*
CAMDEN SQUARE	110	oc	c	*	42	38	32	-	-	*	*	91	*
KENSINGTON PALACE	80	orcom	bccoc	*	44	38	30	-	Tr	*	At 18h. 81	88	*
HAMPSTEAD OBSERVATORY	450	ombc	o	*	42	33	30	Tr	Tr	0.5	*	92	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON. Max.	Time.	Min.	Time.
1.0	9h 12th	0.3	2-7h 13th

KEW OBSERVATORY. Max.	Time.	Min.	Time.
0.6	20h 12th	0.2	2h 13th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 13th January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 13th January 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	SSW	1	r6r6	37	1002.2	ESE	1	id.	37	37	37	4	2
BRUSSELS	1005.4	SSW	2	ir6	36	1003.9	SSE	2	s.s.	34	36	32	2	2
BERLIN	1008.2	WSW	3	c	34	1007.7	SSE	2	o	32	36	30	-	0.4
EDRICH	1014.3	SW	1	m	21	1009.4	NE	1	m	14	27	14	-	-
ROME	1010.2	NNE	3	b	41	1004.0	ENE	2	bc	28	43		-	

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

0	Dense fog	55 yards.
1	Thick fog	220 „
2	Fog	550 „
3	Moderate fog	1,100 „
4	Mist or haze	1¼ miles.
5	Poor visibility	2½ „
6	Moderate „	6¼ „
7	Good „	12½ „
8	Very good „	31 „
9	Excellent „	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 14th January, 1931.

No. 25255

OBSERVATIONS at 13h. G.M.T. 13th January

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)...	1007.2	+4	NNE	4	c	41	85	6	5	–	8	9	9+	1500
	Croydon ...	1006.9	+6	N'E	3	m	41	75	4	5	7	–	4-6	7-8	800
	S. Farnborough	1006.9	+6	NNE	3	c	40	85	7	5	2	–	9	10	800
	Winchester ...	1006.7	+6	NNE	5	o	39	85	7	5	–	–	10	10	1500
	Boscombe Down	1007.0	+2	NNE	5	c	39	85	7	5	2	–	9+	10	1500
	Calshot, S'thmtn	1005.7	+6	N'E	5	c	41	75	7	5	2	–	4-6	10	800
	Dungeness ...	*	*	NE	5	rr	*	*	5	6	–	*	10	10	800
	Lympne ...	1004.9	+6	NE'N	4	$r_o r_o$	40	95	6	6	–	–	10	10	450
2	Shoeburyness	1006.5	+4	NE	4	c	41	85	7	5	7	–	4-6	7-8	2500
	Felixstowe ...	1006.9	+2	N'E	3	bc	43	85	8	1	–	8	2-3	4-6	2500
	Gorleston ...	1007.6	+4	NNE	5	$i r_o$	40	95	6	6	–	–	9	9	2500
	Cranwell ...	1011.8	+14	NNE	4	pr	38	95	7	9	–	–	9+	9+	800
3	Cardington ...	1008.9	+6	NNE	5	c/d	40	85	8	6	7	–	4-6	9+	450
	Birmingham ...	1012.2	+12	NNE	4	bc	37	85	5	5	–	–	4-6	4-6	2500
	Upper Heyford	1010.0	+10	NNE	5	c/r	38	85	6	8	–	–	9+	9+	800
	Leafield ...	1009.3	+10	NNE	6	c	36	85	8	6	7	5	1	9	2500
4	Ross-on-Wye ...	1011.4	+12	NE	5	q	40	65	7	1	3	–	1	4-6	4000
5	Portland Bill...	1005.1	+2	N'E	6	c	41	75	6	4	7	–	7-8	10	1500
	Plymouth ...	1008.0	+2	NE'N	4	c	41	75	7	5	3	1	7-8	9+	800
	Falmouth ...	1009.3	0	N'E	6	c	42	(95)	8	8	–	2	7-8	7-8	4000
	Scilly (St. Mary's)	1009.4	+16	NE'N	7	c	44	85	7	8	–	–	7-8	7-8	4000
	Guernsey ...	1003.5	-6	NNE	4	rr	41	85	5	6	–	–	10	10	1500
6	Pembroke ...	1012.8	+14	N	4	bc	41	75	8	1	–	–	4-6	4-6	2500
7	Holyhead ...	1016.5	+14	NE'N	6	c	39	85	8	4	3	–	4-6	7-8	1500
	Chester (Sealand)	1015.5	+10	N'E	4	3	39	75	6	5	–	–	9+	9+	1500
8	L'pool (Bidston)	1015.3	+6	N'W	4	c	37	75	8	5	–	–	7-8	7-8	2500
9	Harrogate ...	1014.7	+14	~~SWW~~ NW	3	is	33	95	7	3	–	–	9+	9+	2500
10	Spurn Head ...	1011.2	+2	NE'N	4	o/ps	36	95	7	3	–	–	7-8	7-8	4000
	Tynemouth ...	1014.9	+6	N	4	bc/ph	36	85	7	3	–	–	4-6	4-6	1500
11	Inchkeith ...	1018.8	0	NNW	5	bc	34	75	8	–	8	–	0	2-3	–
	Leuchars ...	1018.7	+2	NNW	3	bc	35	65	8	1	–	–	2-3	2-3	2500
12	Renfrew ...	1020.7	+6	NNE	3	b	36	55	8	1	–	–	1	1	4000
	Eskdalemuir ...	1018.5	+10	NNE	4	b	31	75	8	1	–	–	1	1	4000
13A	Tiree	1022.2	+8	N	5	~~o/p~~ bc	37	55	9	5	–	–	7-8	7-8	1500
13B	Stornoway ...	1022.1	+4	N	3	bc	33	95	8	3	7	–	4-6	4-6	4000
15	Dalwhinnie	1021.4 ~~1022.2~~	+10	N	3	bc	27	95	8	5	–	–	4-6	4-6	4000
	Aberdeen ...	1017.9	+4	NNW	3	bc	33	75	8	8	–	–	2-3	2-3	2500
	Wick	1019.0	+4	N	4	bc	34	95	8	3	6	–	4-6	4-6	2500
16	Lerwick ...	1016.0	+6	N'W	3	bc/ps	30	85	8	8	–	–	4-6	4-6	1500
17	Blacksod Point	1023.7	+12	N	5	c/phr	41	75	8	3	–	–	7-8	7-8	1500
18	Malin Head ...	1022.0	+6	N	6	bc/p	38	95	8	3	6	–	4-6	4-6	2500
	Aldergrove ...	1021.2	+16	N	4	bc	36	65	8	7	–	–	2-3	2-3	2500
	Donaghadee ...	1019.3	+12	ENE	6	q	38	~~95~~ 65	7	4	2	–	4-6	4-6	4000
19	Birr Castle ...	1020.6	+16	NE	2	bc	37	85	8	8	–	–	2-3	2-3	2500
20	Valentia Obsy.	1021.0	+10	NNE	5	bc	42	65	9	7	–	–	4-6	4-6	2500
	Roches Point...	1018.0	+14	N	5	c	39	75	9	3	–	–	7-8	7-8	1500

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

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)...	1011.9	+32	NNE	4	3	38	75	5	5	–	–	4-6	4-6	2500	1	*
	Croydon ...	1011.4	+22	N'E	4	3	39	65	5	5	1	–	7-8	10	800	1	*
	S. Farnborough	1011.5	+30	NNE	4	c a a	38	75	6	5	–	–	9+	9+	1500	1	*
	Winchester ...	1011.6	+38	NNE	5	bc	38	75	7	5	–	–	4-6	4-6	2500	1	*
	Boscombe Down	1012.2	+32	N'E	5	b	35	85	7	5	–	–	1	1	2500	1	*
	Calshot, S'thmtn	1010.2	+30	N'E	6	bc	40	65	7	5	2	–	4-6	4-6	1500	1	2
	Dungeness ...	*	*	N	6	rr	*	*	5	6	–	*	10	10	800	*	3
	Lympne ...	1008.3	+18	NNE	6	rr	37	95	6	6	–	–	10	10	800	1	*
2	Shoeburyness	1010.2	+26	NNE	5	b	37	85	8	–	7	–	0	1	–	1	*
	Felixstowe ...	1010.8	+22	N	4	b	37	85	7	–	–	–	0	0	–	0	3
	Gorleston ...	1010.9	+16	N'E	6	bc	40	65	7	6	–	–	4-6	4-6	2500	1	3
	Cranwell ...	1015.1	+22	N	4	ps	32	95	6	9	–	–	9	9	800	6	*
3	Cardington ...	1013.4	+24	N'E	4	c	35	85	8	5	–	4	4-6	7-8	2500	1	*
	Birmingham ...	1015.9	+24	N	4	b	33	85	6	1	–	–	1	1	2500	1	*
	Upper Heyford	1014.1	+30	NNE	5	bc	34	85	7	5	–	–	2-3	2-3	1500	1	*
	Leafield ...	1013.6	+20	N	5	b	33	85	8	5	–	–	1	1	2500	1	*
4	Ross-on-Wye ...	1015.2	+20	NE	4	(3)	35	75	5	5	–	–	2-3	2-3	2500	1	*
5	Portland Bill...	1010.0	+30	NNE	~~5~~ 6	c	40	75	7	4	8	–	4-6	7-8	2500	1	4
	Plymouth ...	1012.4	+24	NE'N	5	c	39	65	7	5	3	–	4-6	7-8	4000	1	2
	Falmouth ...	1013.8	+20	N'E	6	bc	40	85	8	8	–	–	4-6	4-6	4000	0	4
	Scilly (St. Mary's)	1013.6	+36	NNE	8	bc	42	85	7	2	–	–	4-6	4-6	4000	0	5
	Guernsey ...	1007.1	+30	NNE	6	rr	42	85	5	6	–	–	10	10	1500	2	4
6	Pembroke ...	1016.5	+20	N	4	ph	37	95	8	9	–	–	4-6	4-6	1500	1	2
7	Holyhead ...	1019.3	+18	NE'N	6	bc	38	75	8	4	–	–	4-6	4-6	4000	1	3
	Chester (Sealand)	1018.5	+20	N	3	3	34	75	5	5	–	–	1	1	2500	1	*
8	L'pool (Bidston)	1018.3	+18	N'W	5	b	34	75	8	5	–	–	1	1	4000	0	*
9	Harrogate ...	1017.0	+14	N'W	4	is	32	85	5	6	–	–	9+	9+	2500	6	*
10	Spurn Head ...	1013.8	+10	N	6	bc/pr	37	95	7	3	–	–	4-6	4-6	4000	1	5
	Tynemouth ...	1017.4	+16	NNW	3	o/rs	34	95	7	6	–	–	10	10	1500	1	4
11	Inchkeith ...	1021.0	+10	WNW	3	bc	33	85	8	–	8	–	0	2-3	–	4	1
	Leuchars ...	1020.7	+8	NNW	3	bc	33	65	8	4	–	–	2-3	2-3	2500	4	*
12	Renfrew ...	1022.8	+18	SW	2	b	30	65	7	1	–	–	Tr	Tr	4000	4	*
	Eskdalemuir ...	1021.0	+16	N'E	4	b	27	75	8	–	–	–	0	0	–	6	*
13A	Tiree	1023.5	+8	NNW	4	bc	38	65	9	5	–	–	2-3	2-3	1500	0	4
13B	Stornoway ...	1023.0	+4	–	0	c	34	95	8	8	–	–	9	9	4000	6	1
15	Dalwhinnie	~~1022.2~~ 1023.2	+6	–	0	bc	17	~~95~~	8	5	4	–	4-6	4-6	4000	8	*
	Aberdeen ...	1019.8	+10	NW	3	bc/ps	31	85	8	8	–	–	2-3	2-3	2500	8	2
	Wick	1019.9	+10	NNW	4	psh	31	95	8	3	6	–	4-6	7-8	1500	6	3
16	Lerwick ...	1017.5	+8	NW	2	bc	30	85	7	5	–	–	2-3	2-3	1500	8	*
17	Blacksod Point	1025.7	+10	N	6	c	41	65	7	8	–	–	7-8	7-8	1500	1	5
18	Malin Head ...	1023.5	+14	N	5	c	40	75	8	8	–	–	7-8	7-8	2500	0	4
	Aldergrove ...	1022.9	+6	NNW	3	b	30	75	8	5	–	–	Tr	Tr	4000	1	*
	Donaghadee ...	1022.2	+10	NE	6	q	37	65	7	9	2	–	2-3	4-6	4000	0	3
19	Birr Castle ...	1022.8	+16	NE	1	c	34	85	8	5	–	–	7-8	7-8	4000	1	*
20	Valentia Obsy.	1024.0	+18	N'E	4	bc	39	65	8	1	–	–	2-3	2-3	2500	1	3
	Roches Point...	1022.0	+24	NE	3	bc	37	75	9	5	–	–	2-3	2-3	2500	0	3

PAST 24 HOURS.

District	Stations.	Weather. 7h.–13h. 13th (37)	13h.–18h. 13th (38)	18h. 13th to 1h. 14th (39)	1h.–7h. 14th (40)
1	London (Kew)...	$o r_o c 3_o$	$c m_o r_o b c a_o$	$b c m_o b$	bx
	Croydon ...	$o a_o c f_o r_o c a$	$c r_o m_o q$	$c b m_o$	$c m_o$
	S. Farnborough	$o r_o m_o c$	$c c r_o c m_o$	$b c m_o$	$b c p s_o b m_o x$
	Winchester ...	$c m_o r_o c$	$b r_o b c$	bcb	$b m_o$
	Boscombe Down	$c m_o c$	$c i r_o c b$		b
	Calshot, S'thmtn	$c p_o r_o s_o s_o m_o c$	cqpr$_o$	bwbcq	bc, bqx
	Dungeness ...	r	r	*	c
	Lympne ...	$o d_o d_o r_o m$	orrRR	$o r r m_o b$	bbc
2	Shoeburyness	$o r_o r_o c$	cbc	bx	bcbx
	Felixstowe ...	$c r c m_o b c$	bccprqbc	bbc	$b c x p s_o b x$
	Gorleston ...	$c q i r_o$	$c i r_o q$	bcq	$b c x p h_o q$
	Cranwell ...	cqrrpr	ciphcps	$c p s m_o$	$b c m_o b$
3	Cardington ...	cciria	cbcc	b	bx
	Birmingham ...	$c p r s_o$	cb	bbcb	b
	Upper Heyford	$c m o r_o s_o c a_o$	$c i_o b c q$	bcbx	bx
	Leafield ...	oirc	$c r s_o b c$	bc	bcb
4	Ross-on-Wye ...	opcq	bcc	$b b z_o$	b
5	Portland Bill...	$m f c 3_o$	c	bc	bc
	Plymouth ...	$b 3_o c$	cbcq	bcqb	b
	Falmouth ...	bcq	bcq	bcq	bbcq
	Scilly (St. Mary's)	cqp	cbc	$b c p_o$	bc
	Guernsey ...	corrq	orr	$o r c o$	oco
6	Pembroke ...	bcq	bcq	$i s h_o b$	bbcx
7	Holyhead ...	cbcuc	bc	bcb	bbc
	Chester (Sealand)	$b c 3_o$	$b c 3_o$	$b c b z_o x$	$b z_o x$
8	L'pool (Bidston)	bcbbc	b	b	b
9	Harrogate ...	bocis	cbcis	cbis	b
10	Spurn Head ...	cprpsq	cphprq	cPHqps	bccPS
	Tynemouth ...	bcp$_o$	bcqoirs	$o i r s_o b c$	$o i s_o c$
11	Inchkeith ...	bc	bc	bcb	bbc
	Leuchars ...	bxb	b	b	b, c
12	Renfrew ...	cxby	bybx	bx	bxox
	Eskdalemuir ...	bcb	b	bbx	bxbcx
13A	Tiree	cpsbc	ybc	bc	m_o
13B	Stornoway ...	$b c p s_o$	c	bc	orr
15	Dalwhinnie	bcc	bc	bcc	bcpso
	Aberdeen ...	cpsbc	$b c p s_o$	bcps	c
	Wick	bc	bcpsh	bcpsh	bcpshc
16	Lerwick ...	$b c p s_o$	$b c p s_o$	bc	bcc
17	Blacksod Point	phrqc	phrq	bc	bc
18	Malin Head ...	$b c p h_o$	bccjp	cbc	bcce
	Aldergrove ...	$c c p r s_o b c b$	$b c p s_o b c b b x$	bxbcx	bxbcx
	Donaghadee ...	$p h_o b c$	bcq	bq	b
19	Birr Castle ...	$b c c i r_o c b c$	bcc	cbcb	bbcx
20	Valentia Obsy.	$b c p_o b c$	bcybc	bcb	bbcx
	Roches Point...	bccv	cvbcv	bcvbx	bbcx

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

< . less than (for cloud height).

⊕, solar halo. ◐, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

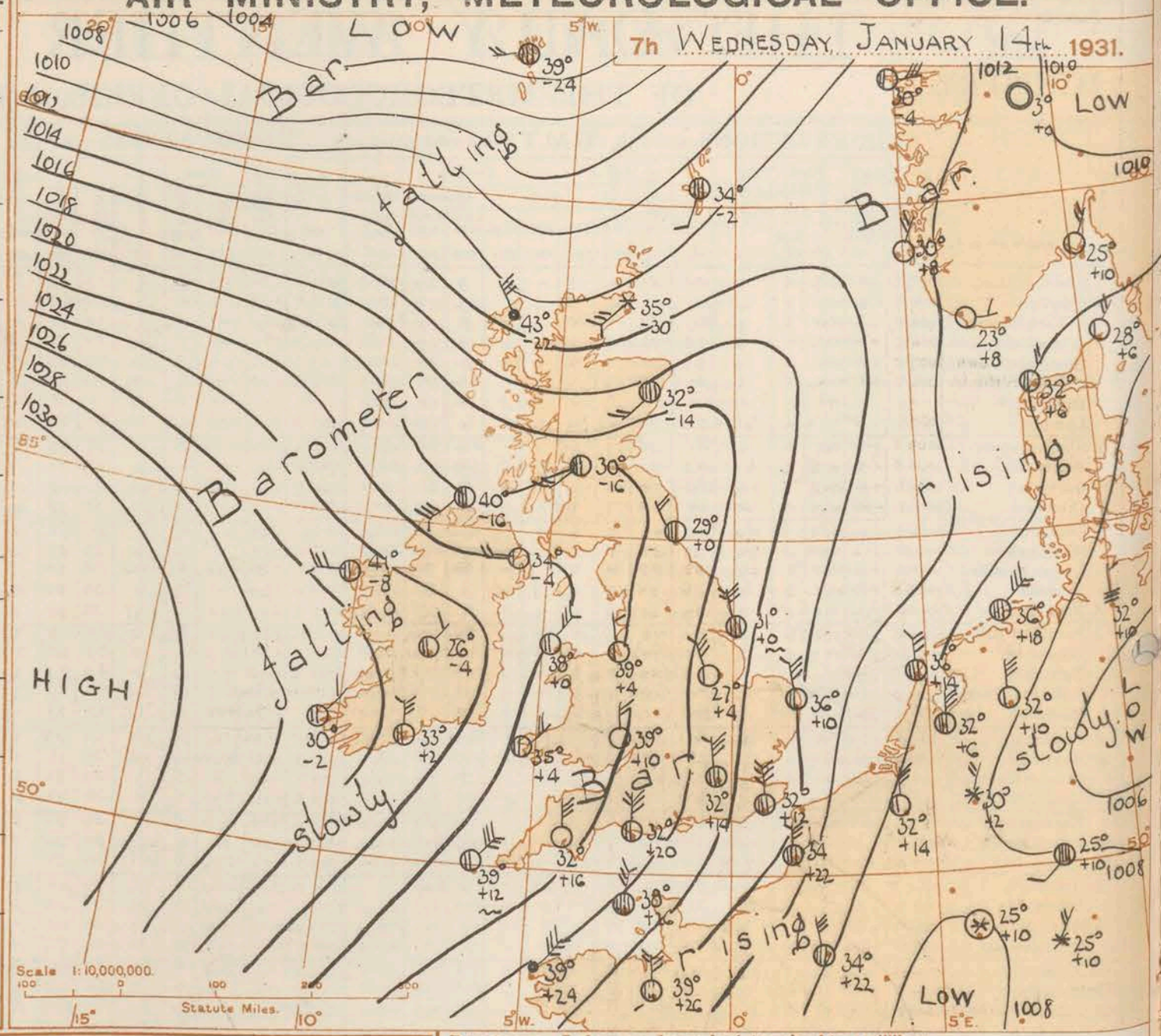
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 13th January 1931.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 12h. to 9h. 13h.	Temperature. Max. 9h.—17h. 13h.	Rainfall. Night. 17h. 12h. to 9h. 13h.	Rainfall. Day. 9h.—17h. 13h.	Sunshine. Sunrise to Sunset 13h.
1	Tunbridge W.	or	oro	32	40	4	2	0.0
	Bournemouth	o	o	33	41	0.3	–	0.0
	Ventnor ...	rsor	orow	36	41	2	2	0.0
	Southsea ...	od	o	32	41	0.1	0.1	0.0
	Bognor Regis	rr	ro	36	41	2	3	0.0
	Littlehampton	cr	crc	36	41	2	5	0.0
	Worthing ...	ror	ro	37	42	3	4	0.0
	Brighton	orc	o	38	42	3	3	0.0
	Eastbourne†	rrr	rro	37	41	1	2	0.0
	Hastings† ...	orro	orroc	37	41	6	4	0.0
	Folkestone ...	orm	orm	38	(41)	4	5	0.0
	Dover... ...	oir	oirair	40	42	7	5	0.0
	Deal	ror	or	40	43	2	4	0.0
	Ramsgate ...	doro	or	41	42	1	4	0.0
	Margate ...	cr	cr	41	43	3	2	0.0
2	Southend ...	ormbc	bbc	35	41	1	0.2	1.0
	Maldon ...	cb	bbcpo	36	42	–	Trace	1.8
	Clacton-on-Sea	oc	cbc	35	42	0.5	–	1.2
	Dovercourt ...	roc	bcpbc	33	43	0.2	0.3	2.4
	Lowestoft ...	cpbc	c	31	41	0.2	–	1.5
	Skegness ...	crobc	bcom	34	41	2	–	3.0
	Mablethorpe	omcris	cirsc	34	41	3	0.3	2.2
	Cleethorpes ...	rc	porr	36	40	2	2	0.8
3	Leamington S.	oc	c	36	40	0.3	–	0.0
4	Cheltenham†	opoc	cocbc	35	40	–	Trace	0.0
5	Bath	irc	c	36	41	0.3	0.3	0.1
	Weymouth ...	cpc	oc	33	41	0.1	Trace	0.0
	Jersey ...	pcr	r	41	44	0.1	7	0.0
	Torquay ...	tbm	ocm	35	42	–	–	0.0
	Penzance ...	bc	bccb	39	46	2	–	3.9
	St. Ives ...	p	p	41	45	1	(Trace)	0.0
	Bude	c	cbc	33	(42)	2	–	3.2
	Ilfracombe ...	oc	cbc	41	44	0.2	–	0.8
6	Aberystwyth	cprc	bcc	36	40	0.3	–	4.3
7	Llandudno ...	c	cbc	36	41	7	–	0.5
	Colwyn Bay...	coc	oco	35	40	4	–	0.5
	Rhyl	bc	bc	36	40	1	–	1.8
8	Wallasey ...	b	b	35	38	–	–	5.9
	Southport‖ ...	bbc	bcb	36	38	0.6	–	5.5
	Blackpool ...	cbc	bcb	36	37	–	–	6.1
	Morecambe ...	dcbbc	bbcbc	36	38	0.5	–	6.4
9	Ilkley... ...	bisb	bisc	34	36	2	Trace	2.0
10	Berwick-on-T.	cs	c	34	37	1	Trace	0.9
11	Dunbar ...	bc	b	35	36	2	–	3.4
12	Douglas ...	cbbc	bcx!	35	42	0.5	–	6.3

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 14th Jan. 1931
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Moderate or fresh northerly to northwesterly winds; mainly fair; cold; sharp frost at night.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Moderate or fresh northwesterly to westerly winds; bright periods, occasional showers of rain or sleet with perhaps snow on high ground; cold; sharp frost at night.
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.	Fresh westerly winds, strong at times locally; mainly cloudy, some rain or sleet with snow locally; cold; sharp frost at night.
17. N.W. Ireland 18. N.E. Ireland	As 7 - 10.
19. S.E. Ireland 20. S.W. Ireland	As 1 - 6.

GENERAL INFERENCE.

A depression near Iceland is likely to move eastward together with associated secondaries. Some rain or sleet, with snowlocally, is to be expected in the North but weather will be mainly fair for a time in the South.

FURTHER OUTLOOK.

None issued.

Forecasts issued at 1000 G.M.T.

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

H.M. Stationery Office Press, Kingsway, W.C.2. Pk. 2438/2174. Wt. 28. D.5026. Gp. 3. 1/31.

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 14th January, 1931.

No. 25255

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

District.	Stations.	Height above M.S.L. in feet.	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low (9)	Med. (10)	High (11)	Amount. Low 0-10 (12)	Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1015.0	+12	N	4	z	34	95	6	5	-	-	7-8	7-8	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1014.7	+16	N	5	bc	35	75	7	5	-	1	2-3	2-3	2500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1012.6	+20	N'W	5	b	34	85	8	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1013.0	+14	N	5	bc	37	85	7	4	-	-	2-3	2-3	4000
	Cranwell ...	240	1017.5	+4	NNW	4	bc	30	95	6	8	-	-	4-6	4-6	1500
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1015.7	+18	N'E	5	bc	35	85	7	4	-	-	2-3	2-3	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1018.4	+8	N'E	6	b	37	85	8	-	-	-	0	0	-
	Scilly (St. Mary's)	163	1018.5	+10	NE	7	bc	40	75	8	2	-	-	4-6	4-6	4000
	Guernsey ...	173	1014.0	+30	NNE	5	o	40	65	7	5	-	-	10	10	2500
6	Pembroke ...	142	1020.4	+4	NE	3	b	35	85	8	8	-	-	1	1	2500
7	Holyhead ...	26	1021.8	+6	NNE	5	b	37	75	8	1	-	1	Tr	Tr	4000
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1014.8	0	N	5	bcjp	37	85	7	3	-	-	4-6	4-6	4000
	Tynemouth ...	67	1018.8	0	NW	3	is$_o$	31	85	7	6	-	-	10	10	1500
11	Inchkeith ...	190	1021.6	-2	NW	3	b	32	~~95~~ 85	8	-	8	-	0	Tr	-
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1018.7	-20	-	0	c	34	95	7	6	-	-	7-8	7-8	4000
15	Dalwhinnie ...	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1019.6	-10	W	3	bc	30	95	8	3	2	-	4-6	4-6	1500
16	Lerwick ...	54	1016.5	-6	-	0	bc	31	85	7	5	-	-	2-3	2-3	1500
17	Blacksod Point	10	1026.3	0	-	0	bc	34	95	7	-	3	-	0	2-3	-
18	Malin Head ...	51	1023.4	-6	NW	3	bc	39	85	8	1	-	-	2-3	2-3	4000
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1026.5	+6	NE	4	b	37	75	8	5	-	-	1	1	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

Stations.	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force. 0-12 (18)	Weather. (19)	Temp. °F. (20)	Humid. % (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Med. (24)	High. (25)	Amount. Low. 0-10 (26)	Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
London (Kew)	~~1015.7~~ 1017.5	+28	N'W	4	b	31	75	7	7	4	-	Tr	Tr	2500	4	*
Croydon	1016.9	~~+42~~ +14	NNW	4	z	32	85	6	5	3	-	4-6	7-8	1500	1	*
S. Farnborough	1017.8	+16	NNW	2	b	29	85	6	5	-	-	Tr	Tr	2500	1	*
Winchester	1018.4	+18	N	5	b	29	85	6	-	-	-	0	0	-	4	*
Boscombe Down	1019.1	+10	N	4	b	27	85	7	-	-	-	0	0	-	4	*
Calshot, (S'thmtn)	1017.3	+14	N'W	5	b	32	85	7	5	-	-	1	1	2500	1	2
Dungeness	*	*	NW	5	bc	*	*	7	2	-	*	4-6	4-6	2500	*	3
Lympne	1014.3	+12	N'W	6	c	32	95	7	5	-	-	7-8	7-8	800	4	*
Shoeburyness	1015.9	+16	NNW	5	bc	31	95	8	4	3	-	1	4-6	4000	4	*
Felixstowe	1015.4	+10	NNW	3	bc	32	95	7	5	-	-	2-3	2-3	4000	4	2
Gorleston	1014.3	+10	N'W	4	bc	36	65	7	3	-	-	2-3	2-3	2500	0	3
Cranwell	1018.0	+4	NW	4	b	27	95	7	-	3	-	0	Tr	-	6	*
Cardington	1017.8	+12	NNW	4	b	29	85	8	5	-	-	Tr	Tr	5700	4	*
Birmingham	1020.3	+10	NNW	4	b	27	85	6	-	-	-	0	0	-	4	*
Upper Heyford	1019.2	+20	NNW	4	b	27	85	7	-	-	-	0	0	-	4	*
Leafield	1019.0	~~+8~~ +12	NNW	4	b	25	85	7	-	3	-	0	1	-	4	*
Ross-on-Wye	1020.4	+10	N	2	b	29	75	8	-	-	-	0	0	-	4	*
Portland Bill	1018.2	+20	N	5	bc	32	75	7	4	-	-	2-3	2-3	2500	1	3
Plymouth	1021.2	+16	N	3	b	32	85	8	-	-	-	0	0	-	4	0
Falmouth	1021.7	+10	N'E	4	bc	34	95	8	5	-	-	2-3	2-3	4000	0	2
Scilly (St. Mary's)	1021.8	+12	NE	6	bc	39	75	8	2	-	-	4-6	4-6	4000	0	4
Guernsey	1017.4	+26	NNE	4	o	(38)	75	7	5	-	-	10	10	1500	0	4
Pembroke	1021.4	+4	NE	2	bc	35	85	8	7	4	-	4-6	4-6	2500	4	1
Holyhead	1021.9	0	NE'N	5	bc	38	75	8	5	3	-	2-3	2-3	4000	1	3
Chester (Sealand)	1021.3	+4	NW'N	1	z	29	75	6	5	-	-	1	1	2500	4	*
L'pool (Bidston)	1021.5	+2	NNW	3	b	33	75	8	-	-	-	0	0	-	4	*
Harrogate	1020.1	0	WSW	1	b	27	85	8	4	-	-	Tr	Tr	4000	6	*
Spurn Head	1015.9	0	NNW	5	c	31	95	6	3	3	-	4-6	7-8	2500	6	5
Tynemouth	1019.1	0	NW	2	c	29	85	6	6	-	-	7-8	7-8	1500	6	3
Inchkeith	1019.9	-10	SW	3	c	31	95	7	-	7	-	0	7-8	-	4	1
Leuchars	1019.2	-16	WSW	3	c	30	75	8	5	-	-	9+	9+	2500	4	*
Renfrew	1020.6	-16	WSW	2	o	30	85	7	5	-	-	10	10	2500	4	*
Eskdalemuir	1021.6	-4	-	0	bc	20	75	8	-	5	-	0	4-6	-	6	*
Tiree	1017.0	-28	WSW	5	c	44	95	6	5	7	-	4-6	10	1500	1	3
Stornoway	1012.8	-22	WNW	3	rr	43	95	7	6	-	-	10	10	4000	2	2
Dalwhinnie	1018.14	-18	SW	3	ps	30	95	7	5	-	-	10	10	1500	7	*
Aberdeen	1017.0	-14	SW	2	c	32	75	6	5	-	-	10	10	2500	8	1
Wick	1013.4	-30	SW	4	psh	35	95	8	6	-	-	10	10	1500	6	3
Lerwick	1011.0	-22	S'W	1	c	34	95	7	5	1	-	2-3	9	1500	7	*
Blacksod Point	1024.6	-8	W	4	bc	41	75	7	-	7	-	0	4-6	-	0	3
Malin Head	1020.2	-16	SW	4	c	40	95	8	4	-	-	9+	9+	4000	0	2
Aldergrove	1022.8	-6	SW	2	c	31	95	7	5	1	-	2-3	9	4000	4	*
Donaghadee	1021.7	-4	W	2	b	34	75	7	5	-	-	1	1	4000	0	1
Birr Castle	1025.1	-4	NE	1	bc	26	95	8	5	-	-	2-3	2-3	4000	4	*
Valentia Obsy.†	1026.8	-2	NE'E	1	bc	30	85	8	8	-	-	4-6	4-6	2500	4	2
Roches Point	1025.5	+2	N	4	bc	33	85	8	5	-	-	2-3	2-3	1500	4	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)	Night 18h-7h mm. (35)	Sunshine 13th Hrs. (36)
London (Kew)	42	31	27	Tr	-	0.0
Croydon	41	32	29	0.3	-	0.0
S. Farnborough	40	29	23	0.1	Tr	0.0
Winchester	40	28	25	0.1	-	0.0
Boscombe Down	39	25		Tr	-	
Calshot, (S'thmtn)	41	31	27	0.1	-	0.0
Dungeness	44	32	*	~~5.5~~	~~2.7~~	*
Lympne	40	32	29	7	1	0.0
Shoeburyness	42	30	27	1	-	1.3
Felixstowe	43	31	26	0.4	Tr	2.4
Gorleston	42	33	32	1	0.2	0.0
Cranwell	39	27	24	2	0.3	1.0
Cardington	40	28	26	0.3	-	0.0
Birmingham	37	26	23	0.5	-	0.2
Upper Heyford	38	26	23	0.5	-	
Leafield	37	25	22	0.6	-	0.1
Ross-on-Wye	40	28	22	0.1	-	0.8
Portland Bill	42	31	*	-	-	*
Plymouth	43	32	29	-	-	0.0
Falmouth	43	34	*	-	-	3.2
Scilly (St. Mary's)	45	38	*	0.1	Tr	2.2
Guernsey	43	38	36	9	-	0.0
Pembroke	44	32	*	-	Tr	5.8
Holyhead	42	36	31	-	-	3.8
Chester (Sealand)	39	26	21	-	-	2.5
L'pool (Bidston)	37	30	27	-	-	4.5
Harrogate	34	27	20	1	Tr	1.4
Spurn Head	42	30	*	2	1	1.1
Tynemouth	39	29	25	1	1	*
Inchkeith	35	30	27	-	-	5.9
Leuchars	35	27	20	-	-	6.0
Renfrew	36	24	14	-	-	6.0
Eskdalemuir	32	19	15	-	-	6.5
Tiree	38	36	27	0.3	Tr	1.5
Stornoway	36	31	*	0.2	5	1.9
Dalwhinnie	28	(24) 14	*	-	0.1	0.7
Aberdeen	34	28	23	1	0.3	4.2
Wick	34	25	*	0.1	0.3	*
Lerwick	33	29	*	Tr	Tr	1.3
Blacksod Point	44	33	*	1	1	*
Malin Head	40	37	*	Tr	-	1.6
Aldergrove	37	27	18	0.2	Tr	6.5
Donaghadee	41	31	*	0.2	-	*
Birr Castle	38	24	17	Tr	-	3.8
Valentia Obsy.†	42	28	26	0.1	-	6.3
Roches Point	41	31	*	-	-	*

LONDON OBSERVATIONS.

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

	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.	Humidity. 15h. G.M.T. % Yesterday.	9h. G.M.T. % To-day.	Visibility 9h.
Kew	18	oroczo	cmocbcmo	bcmobx	42	31	27	Tr	-	0.0	•	•	6
Croydon	217	omcfcrcm	oromoq	cbircm	41	32	29	0.3	-	0.0	•	•	4
Greenwich (Royal Observatory)	149	c	cpoc	bcbxm	42	29	24	Tr	Tr	0.1	84	87	4
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	0.1	•	•	•
Westminster (St. James' Park)	27	-	•	•	43	31	27	-	-	0.1	84	79	•
Regents Pk. (Botanic Gardens)	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square	110	oc	cpc	•	40	32	26	0.3	-	•	•	85	•
Kensington Palace	80	odroco	corco	•	42	30	25	0.4	Tr	•	At 18h. 74	83	•
Hampstead Observatory	450	obcp	bc	•	40	25	21	0.1	Tr	0.0	•	91	•

Atmospheric Pollution.

Milligrams of Solid Impurity per cubic metre.

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

	Max.	Time.	Min.	Time.
South Kensington.	0.8	9h 13th	<0.3	23h 13th 7h 14th
Kew Observatory.	0.3	9h 13th	<0.1	0-4h 14th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 13th January Barom. mb.	Wind. Direc.	Force.	Weather.	Temp. °F.	7h. G.M.T. 14th January Barom. mb.	Wind. Direc.	Force.	Weather.	Temp. °F.	Past 24 Hours. Max. Day °F.	Min. Night °F.	Rainfall. Day. mm.	Night. mm.
Paris	1004.7	NE	2	dd	37	1010.6	N	2	c	37	39	34	2	2
Brussels	1006.4	NE	2	o	34	1009.9	N	3	bc	32	34	32	2	4
Berlin	1007.2	SSE	2	is$_o$	32	1006.1	SSE	2	m	32	32	30	0.1	Tr
Zürich	1007.6	SE	1	m	23	1008.6	S	1	f	19	27	18	-	-
Rome	1004.2	W	1	b	37	1008.3	S	1	id$_o$	37		30	-	3

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

Objects not visible at

0 Dense fog 55 yards.
1 Thick fog 220 „
2 Fog 550 „
3 Moderate fog 1,100 „
4 Mist or haze 1¼ miles.
5 Poor visibility 2½ „
6 Moderate „ 6¼ „
7 Good „ 12½ „
8 Very good „ 31 „
9 Excellent „ beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 15th January 1931.

No. 25.256

OBSERVATIONS at 13h. G.M.T. 14th January

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)...	1018.5	0	N'W	4	b	36	65	6	–	–	–	0	0	–
	Croydon ...	1018.1	-2	NNW	3	m	35	85	4	5	3	–	2-3	2-3	1500
	S. Farnborough	1018.8	+4	NNW	3	b	36	65	6	–	4	–	0	Tr	–
	Winchester ...	1019.6	+2	N	4	b	34	65	6	–	–	–	0	0	–
	Boscombe Down	1020.1	-2	N'W	4	b	34	65	7	–	–	–	0	0	–
	Calshot, S'thmtn	1019.1	+2	N'W	5	b	36	65	6	–	–	–	0	0	–
	Dungeness ...	*	*	N	5	bc	*	*	7	1	–	*	2-3	2-3	2500
	Lympne ...	1016.0	+2	NNW	4	z	34	85	6	7	–	–	7-8	7-8	800
2	Shoeburyness	1017.2	+6	NNW	5	bc	35	85	8	4	6	–	1	2-3	1500
	Felixstowe ...	1016.6	+2	NNW	4	bc	35	85	8	5	–	–	4-6	4-6	800
	Gorleston ...	1015.8	+4	N	4	bc/ps	41	75	7	9	–	–	4-6	4-6	1500
	Cranwell ...	1018.8	-6	NW'N	4	z	33	75	6	8	3	1	4-6	7-8	4000
3	Cardington ...	1018.8	0	NNW	3	b	36	75	6	–	3	–	0	Tr	–
	Birmingham ...	1020.5	-4	NW	4	z	33	65	5	–	3	–	0	4-6	–
	Upper Heyford	1019.8	-2	NW'N	4	z	34	65	6	–	–	–	0	0	–
	Leafield ...	1019.3	+6	NW'N	4	b	33	75	5	–	–	9	0	Tr	–
4	Ross-on-Wye ...	1020.8	0	N	3	bc	37	55	8	–	3	1	0	2-3	–
5	Portland Bill...	1020.0	0	NNW	4	b	36	55	7	–	–	–	0	0	–
	Plymouth ...	1021.8	-6	N'W	4	b	38	55	8	5	–	1	Tr	Tr	4000
	Falmouth ...	1023.5	+4	N'E	4	b	38	85	8	5	–	–	2-3	(2-3)	4000
	Scilly (St. Mary's)	1023.4	+2	NE'N	5	pro	41	85	8	3	–	–	4-6	4-6	4000
	Guernsey ...	1019.6	0	N	3	bc	39	65	8	5	–	–	4-6	4-6	2500
6	Pembroke ...	1022.5	0	NW	4	c	41	85	8	7	6	–	4-6	7-8	2500
7	Holyhead ...	1021.2	-10	W	4	c	41	85	9	5	7	–	4-6	9+	4000
	Chester (Sealand)	1020.7	-10	WNW	2	c	38	65	7	5	3	–	4-6	7-8	7200
8	L'pool (Bidston)	1020.2	-6	W'S	2	c	38	65	9	4	–	9	4-6	7-8	5700
9	Harrogate ...	1019.1	0	SW	2	c	33	85	8	–	1	–	0	10	–
10	Spurn Head ...	1017.0	0	NNW	5	c	35	85	7	3	3	–	2-3	9+	4000
	Tynemouth ...	1016.7	-20	SW	2	of	35	85	3	5	–	–	10	10	800
11	Inchkeith ...	1014.8	-20	WSW	4	roro	37	95	7	5	2	–	2-3	10	800
	Leuchars ...	1013.2	-38	WSW	3	c/r	35	95	6	5	2	–	4-6	10	2500
12	Renfrew ...	1015.1	-30	W	3	c/d	43	95	6	5	4	–	9+	9+	1500
	Eskdalemuir ...	1017.6	-26	SSW	2	soso	29	95	6	5	–	–	10	10	450
13A	Tiree ...	1015.1	-18	W'S	5	c	45	95	8	5	3	–	4-6	9+	1500
13B	Stornoway ...	1009.7	-18	WNW	5	c	46	95	6	6	2	9	(10)	10	4000
15	Dalwhinnie ...	1013.9	-14	W	5	c	38	95	8	5	1	–	7-8	9	1500
	Aberdeen ...	1010.1	-36	SSW	2	o	37	95	6	6	–	–	10	10	1500
	Wick ...	1007.4	-26	WSW	3	roro	41	95	8	6	–	–	10	10	1500
16	Lerwick ...	1002.8	-48	S'W	5	dodo	40	95	7	6	–	–	10	10	1500
17	Blacksod Point	1011.9	-18	[illegible]	5	c/d	45	95	8	8	–	–	7-8	7-8	800
18	Malin Head ...	1017.4	-16	WNW	4	c/p	46	95	6	9	–	9	7-8	7-8	2500
	Aldergrove ...	1019.8	-12	S'W	4	c	35	95	8	5	2	–	7-8	10	800
	Donaghadee ...	1018.8	-24	WSW	2	c	38	85	7	5	2	–	4-6	7-8	2500
19	Birr Castle ...	1023.2	-16	SW	1	c	40	85	8	–	3	–	0	7-8	–
20	Valentia Obsy.	1005.7	-14	–	0	c	40	85	8	5	–	–	9	9	1500
	Roches Point...	1025.5	-8	N	3	bc	39	75	8	5	–	9	4-6	4-6	2500

OBSERVATIONS at 18h. G.M.T. 14th January

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	+10	NW	2	c	35	65	6	5	–	–	7-8	7-8	4000	4	*
Croydon	1020.0	+12	NW'W	2	of-	33	85	3	5	–	–	10	10	1500	1	*
S. Farnborough	1020.6	+12	NW	2	cα	33	75	5	5	–	–	10	10	4000	1	*
Winchester	1021.4	+10	NNW	3	o	32	75	7	5	–	–	10	10	2500	4	*
Boscombe Down	1021.9	+10	NW	1	o	31	85	7	5	–	–	10	10	4000	4	*
Calshot, S'thmtn	1020.6	+10	NW	3	c	34	75	6	5	3	–	4-6	7-8	4000	0	1
Dungeness	*	*	N	3	z	*	*	6	5	–	*	2-3	2-3	2500	*	2
Lympne	1018.4	+6	N'W	5	z	31	85	5	–	–	–	0	0	–	4	*
Shoeburyness	1019.3	+10	NNW	3	b	33	85	8	–	7	–	0	1	–	4	*
Felixstowe	1018.7	+10	NW'N	2	b	34	85	8	–	–	–	0	0	–	1	1
Gorleston	1017.7	+10	NW	3	bc	35	95	6	6	–	–	4-6	4-6	1500	1	2
Cranwell	1018.7	+2	WSW	3	iso	33	85	4	5	–	–	10	10	2500	6	*
Cardington	1020.1	+8	W'N	2	o	33	75	6	5	–	–	10	10	2500	1	*
Birmingham	1020.2	-4	WSW	2	c	34	75	5	5	–	–	9+	9+	5700	4	*
Upper Heyford	1021.0	+8	W'N	2	z	32	75	5	5	1	–	4-6	9	4000	4	*
Leafield	1020.5	+6	NW'W	2	c	32	85	6	5	–	–	9+	9+	5700	4	*
Ross-on-Wye	1020.7	+4	SW'W	2	c	35	65	8	5	–	–	9+	9+	4000	4	*
Portland Bill	1021.4	+8	N'W	3	c	37	55	7	4	7	–	4-6	7-8	2500	1	3
Plymouth	1023.2	+10	NW	1	c	37	75	6	5	3	–	2-3	9+	4000	1	1
Falmouth	1024.4	+6	NNW	2	c	39	95	8	5	–	–	7-8	7-8	4000	0	0
Scilly (St. Mary's)	1025.0	+16	N	4	c	41	75	8	5	–	–	7-8	7-8	4000	0	2
Guernsey	1021.4	+16	N	1	bc	38	65	8	5	–	–	4-6	4-6	2500	0	3
Pembroke	1022.3	0	NW	3	c	43	85	8	8	8	–	4-6	7-8	2500	0	1
Holyhead	1019.1	-6	W'N	5	o	44	95	8	5	–	–	10	10	1500	1	3
Chester (Sealand)	1019.1	-10	WNW	3	c	39	85	6	5	–	–	9	9	2500	1	*
L'pool (Bidston)	1017.9	-12	W'S	5	iro	39	95	7	6	–	–	10	10	1500	1	*
Harrogate	1015.7	-14	SW	5	c	36	95	7	6	2	–	2-3	10	2500	6	*
Spurn Head	1017.0	0	WNW	4	o/p	35	85	5	6	–	–	10	10	800	6	5
Tynemouth	1012.9	-16	WSW	3	o	39	95	6	6	–	–	10	10	1500	1	2
Inchkeith	1011.4	-14	WSW	4	c	43	85	7	5	2	–	7-8	10	1500	1	3
Leuchars	1010.4	-16	SW	4	c	41	85	6	5	7	–	4-6	9+	2500	1	*
Renfrew	1013.3	-14	W	4	c	43	95	7	5	–	–	9	9	2500	1	*
Eskdalemuir	1014.0	-12	W	4	ido	37	95	5	5	–	–	10	10	450	8	*
Tiree	1012.6	-10	W	5	bc/iro	46	95	7	5	1	–	2-3	4-6	1500	1	3
Stornoway	1006.8	-18	W	5	dodo	45	95	6	6	–	–	10	10	4000	2	3
Dalwhinnie	1010.4	-12	W	5	c	40	85	7	5	–	–	7-8	7-8	1500	6	*
Aberdeen	1007.4	-16	SSW	2	m	40	85	4	–	7	–	0	9	–	3	1
Wick	1004.4	-16	W	4	c/d	44	95	7	6	2	–	4-6	10	1500	1	2
Lerwick	997.8	-18	SSW	3	dodo	45	95	6	6	–	–	10	10	1500	1	*
Blacksod Point	1020.4	-4	W	5	c/pr	46	85	7	9	–	–	9+	9+	220	1	4
Malin Head	1015.6	-6	W'N	4	c/d	46	95	6	6	–	–	9+	9+	800	1	2
Aldergrove	1017.2	-14	SSW	4	c	40	95	6	5	2	–	9	10	800	1	*
Donaghadee	1016.4	-8	WSW	2	c	42	95	7	5	–	6	7-8	7-8	2500	0	1
Birr Castle	1021.6	-4	S	1	c	39	95	8	5	–	–	7-8	7-8	4000	1	*
Valentia Obsy.	1024.5	-2	W'N	3	c/pr	45	85	8	5	–	1	7-8	7-8	800	1	2
Roches Point	1023.9	-2	W	2	c	42	85	8	5	–	–	7-8	7-8	2500	0	2

PAST 24 HOURS. WEATHER.

Stations	7h.–13h. 14th (37)	13h.–18h. 14th (38)	18h. 14th – 1h. 15th (39)	1h.–7h. 15th (40)
London (Kew)	bxbzo	czobczo	ozo	cmr.cm.
Croydon	bcmobbcm	bcmcff	cjomosm.	osbmcmo
S. Farnborough	bxmobzo	bzo	cmsors	c
Winchester	bmobzo	bzobc	c	c
Boscombe Down	b	bbcc	c	c
Calshot, S'thmtn	bxmo	cyzobcmo	cmxcir.	cir.
Dungeness	bc	b	*	bc
Lympne	bccmo	bccbmo	bbcom.	os.so.ocmo
Shoeburyness	bcb	b	bx	cpo
Felixstowe	bcxps	bcb	bbcc	crrc
Gorleston	bcphosq	bcmomo	bcmmoss	os.so.ro.o
Cranwell	bbcpso	czoiso	csom	cmoro
Cardington	bxbmo	bbccmo	cmooss	osc
Birmingham	bbc	bcc	c	c
Upper Heyford	bxmo	bbcczo	czo	c
Leafield	b	bcc	c	c
Ross-on-Wye	b	bcpbcc	cbcc	c
Portland Bill	bcb	bbcc	cbc	bcipr.c
Plymouth	bxb	bbcmo	cm.b	or.c
Falmouth	bc	bc	bcc	cr.
Scilly (St. Mary's)	bccpo	cpc	cbcc	cpo
Guernsey	ocbc	bcbc	bcb	cor.r
Pembroke	c	c	cq	cor.q
Holyhead	bcc	cpro	c.pr	pr.
Chester (Sealand)	bzxbc	cpcm	cm	cm.
L'pool (Bidston)	bbvyc	ciror	ir.oc	cir.q
Harrogate	bbcc	ciso	c	c
Spurn Head	cps.c	czo	orscpr	orc
Tynemouth	coisoff	oisoff	oir.c	coq
Inchkeith	oisororo	o	o	oc
Leuchars	cossoro	cmo	c	cbc
Renfrew	osoocdomo	cirooc	bcc	bcc
Eskdalemuir	bccossso	ossosofoido	oid.	oc
Tiree	ciro bcc	ciro	cird.	cir.dom.
Stornoway	odd id	odod-o	orr.cq	cp.d
Dalwhinnie	oiro	cpro	prc	c
Aberdeen	cossogois	iro cz	c	c
Wick	cpshoror	ororcdod	oir.	cir.
Lerwick	codod	ododono	[illegible]	bcpr
Blacksod Point	id	irc	c	do
Malin Head	cpiro	cidomomo	bccdmm	cidom.
Aldergrove	cxc	cirocmo	cmoro	wid.
Donaghadee	bbcc	c	cidc	cbc
Birr Castle	bcc	cimoc	cbcc	qoir.
Valentia Obsy.	bcxc	cpocpc	bcpidc	cir.odd
Roches Point	bc	bcc	cbc	bccp.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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,

R, heavy rain. r_o, slight rain. rr, continuous rain.

< less than (for cloud height).

⊕, solar halo. ⊕, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

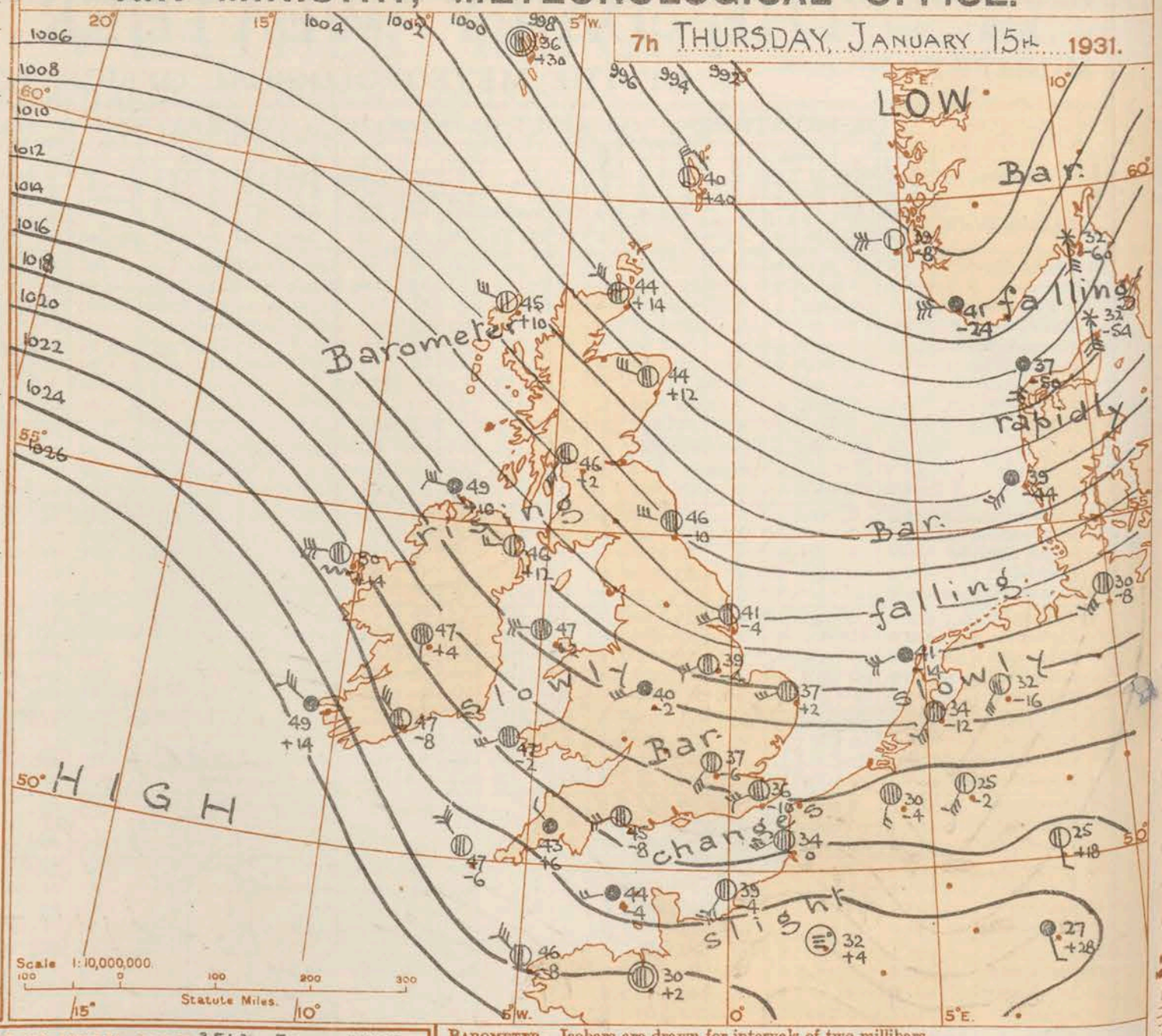
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 14th January 1931.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 13th to 9h. 14th	Temperature. Max. 9h.—17h. 14th	Rainfall. Night. 17h. 13th to 9h. 14th	Rainfall. Day. 9h.—17h. 14th	Sunshine. Sunrise to Sunset. 14th
1	Tunbridge W.	bbc	bcc	30	35	–	–	5·8
	Bournemouth	b	b	28	37	–	–	7.2
	Ventnor ...	sb3	b3	29	37	–	–	6.9
	Southsea ...	b	b	30	37	–	–	6.5
	Bognor Regis	b	b	30	37	–	–	6.4
	Littlehampton	bcb	bbc	30	38	–	–	6.6
	Worthing ...	b	b	30	37	–	–	6.2
	Brighton ...	b	bc	32	37	–	–	6.0
	Eastbourne†	b	b	31	37	–	–	6.2
	Hastings† ...	b	b	31	37	0.4	–	6.4
	Folkestone ...	xcbc	b	32	40	7	–	6.4
	Dover... ...	bc	bbcm	34	36	3	–	6.4
	Deal	cb	b	34	36	3	–	5.0
	Ramsgate ...	bc	bc	34	41	2	–	6.0
	Margate ...	bc	bc	34	40	2	–	4.7
2	Southend ...	bm3	b3	30	37	Trace	–	6.6
	Maldon ...	cb	bbcc	31	36	–	–	6.2
	Clacton-on-Sea	bc	bc	31	35	Trace	–	6.3
	Dovercourt ...	sbc	bc	31	37	0.3	–	4.6
	Lowestoft ...	bcpsh	bcic	32	37	0.3	0.1	6.2
	Skegness ...	psob	cbctm	29	37	Trace	Trace	2.8
	Mablethorpe	cshm	com	29	34	3	–	0.9
	Cleethorpes ...	oc	co	28	35	2	–	1.2
3	Leamington S.	bbc	bmc	27	37	–	–	3.5
4	Cheltenham†	xb	bccf	26	37	–	–	6.4
5	Bath	b	bbcc	30	37	–	–	6.9
	Weymouth ...	b	b	29	37	–	–	7.7
	Jersey ...	rcbc	bc	38	41	5	–	3.3
	Torquay ...	b3b	bm	30	39	–	–	7.4
	Penzance ...	b	b	37	44	–	–	5.2
	St. Ives ...	b	b	38	42	–	–	3.6
	Bude	bbcb	bcc	37	41	–	–	5.5
	Ilfracombe ...	b	b	35	40	–	–	6.8
6	Aberystwyth	cbcbx	bbc	27	41	–	–	5.0
7	Llandudno ...	b	bcdc	35	41	–	Trace	4.0
	Colwyn Bay...	cb	bcfo	34	43	–	Trace	4.3
	Rhyl	bbc	bcc	34	43	–	–	4.3
8	Wallasey ...	bbc	bccor	30	42	–	Trace	3.9
	Southport‖ ...	bbcc	coro	26	41	–	0.3	1.2
	Blackpool ...	co	od	29	40	–	0.5	1.1
	Morecambe ...	xcbbc	bccsr	23	40	–	1	0.7
9	Ilkley... ...	bbcc	o3d	26	36	Trace	Trace	0.0
10	Berwick-on-T.	c5	fc	30	38	–	1	0.0
11	Dunbar ...	cm5	bc	30	42	–	1	0.0
12	Dongles ...	bcxcb	cbcirmc	28	41	–	1	0.8

† 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 the wind. Number of feathers indicate Beaufort force. Calm = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 3/10 clouded. ◑ Sky 4/10 to 6/10 clouded. ◕ Sky 7/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡̊ Mist. T Thunder. ⚡ Thunderstorm.
SEA DISTURBANCE. ⌒ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 15th Jan. 1931.
1. S.E. England 2. E. England... 3. E. Midlands	Moderate or fresh westerly to northwesterly winds, backing later; occasional showers at first, perhaps some rain tomorrow; becoming milder.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales	Fresh northwesterly winds backing and probably freshening; occasional showers at first, probably some rain tomorrow; mild.
8. N.W. England 9. N. Midlands 10. N.E. England 11. S.E. Scotland	Fresh westerly winds backing and freshening; occasional showers at first, some rain later; rather mild or 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 19. S.E. Ireland 20. S.W. Ireland	Fresh westerly winds backing and freshening to strong, stronger perhaps at times; cloudy, some rain; rather mild or mild.

GENERAL INFERENCE.

Depressions moving eastward across Iceland together with associated secondaries will cause unsettled and milder conditions generally.

FURTHER OUTLOOK.

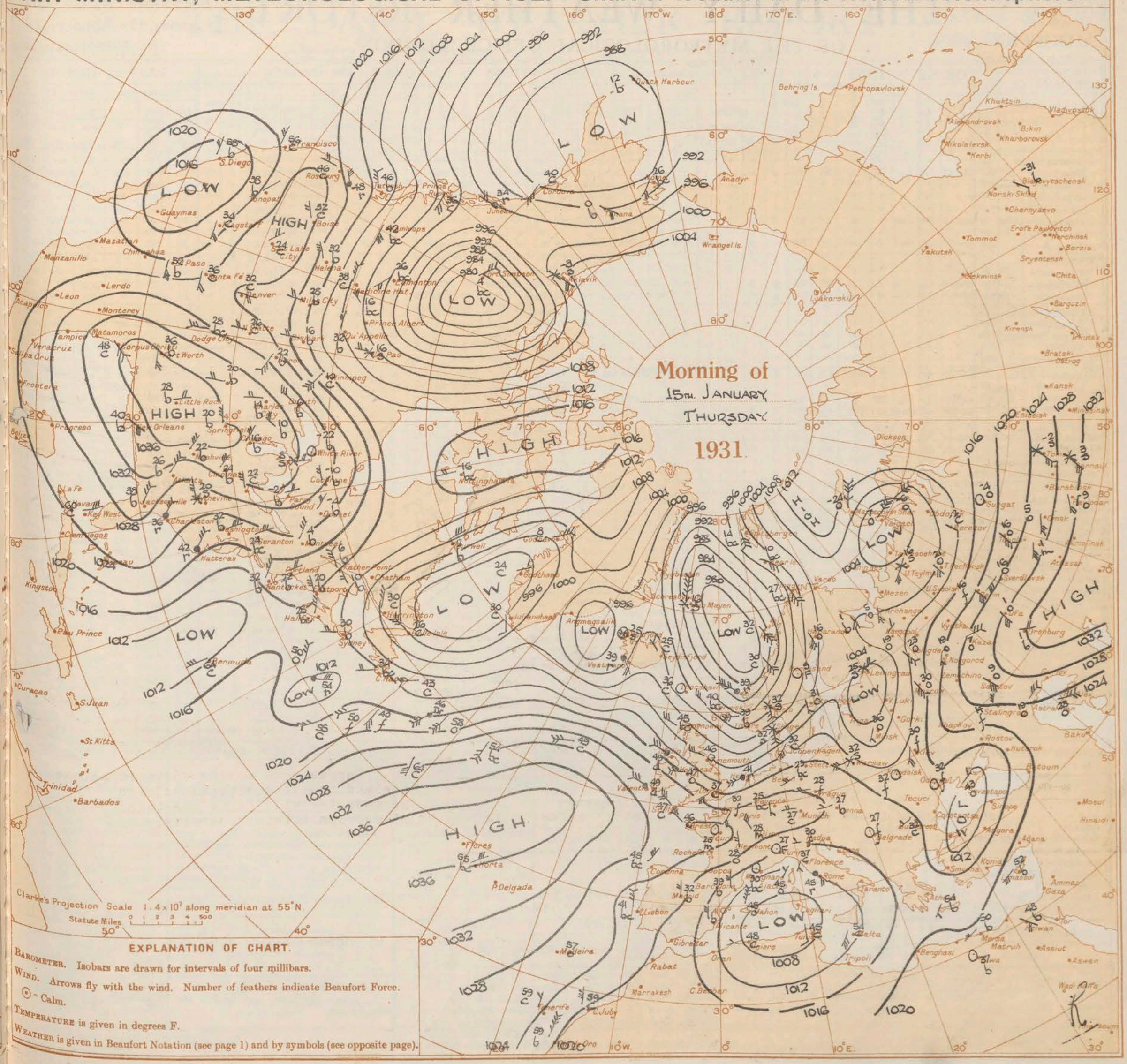
Unsettled.

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.
Wt. 2438/2174. Wt. 28 0.6026 4/908 27900 1/31.

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 15th January 1931.

No. 25256

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

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	1019.7	-1.0	SW	3	is.	34	95	6	6	-	-	10	10	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1021.1	-4	SWW	4	ir.	35	85	7	5	7	-	4-6	10	2500
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1019.7	-6	WNW	3	m	32	85	4	5	-	-	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	1016.9	-1.0	SWW	3	s.s.	33	95	5	3	-	-	10	10	800
	Cranwell	240	1015.7	-1.0	WSW	4	c	36	95	5	5	-	-	9	9	2500
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1020.8	-6	W	4	bc	43	75	8	4	7	-	4-6	4-6	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	1024.2	-2	W's	3	c	41	95	7	5	-	-	9	9	4000
	Scilly (St. Mary's)	163	1023.8	-1.0	WNW	5	pr.	46	95	7	3	-	-	9	9	4000
	Guernsey	173	1023.4	+4	-	0	b	40	65	9	-	-	-	0	0	-
6	Pembroke	142	1019.9	-4	W	4	c	46	95	8	8	-	-	7-8	7-8	2500
7	Holyhead	26	1016.3	-1.2	W'N	6	o	45	95	7	5	-	-	10	10	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1013.2	+6	W'S	4	c	37	95	6	3	2	-	4-6	10	4000
	Tynemouth	67	1009.1	-1.2	W	4	c	43	85	7	6	-	-	7-8	7-8	1500
11	Inchkeith	190	1007.6	-1.6	WSW	4	o	44	95	7	5	-	-	10	10	1500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1003.8	-6	WNW	7	c	47	85	7	4	7	-	4-6	9	4000
15	Dalwhinnie	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1000.3	-1.2	W	4	c	46	95	8	3	1	-	4-6	7-8	1500
16	Lerwick	54	992.0	-6	WNW	5	bc	46	75	7	8	-	-	4-6	4-6	1500
17	Blacksod Point	10	1018.3	-1.2	W	6	c	49	95	6	-	2	-	0	10	-
18	Malin Head	51	1012.6	-1.8	W	4	id.	47	95	6	6	-	-	9+	9+	800
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1023.6	0	W	5	pr	47	95	8	3	-	-	10	10	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1017.4	+0	SW	3	c	37	95	5	5	-	-	9+	9+	2500	1	*
	Croydon	1017.7	-6	SWW	6	z	37	95	6	6	2	-	4-6	9+	1500	1	*
	S. Farnborough	1017.7	+2	WSW	3	c	39	95	7	5	-	-	9+	9+	1500	1	*
	Winchester	1018.5	-6	W	3	c	37	95	7	5	-	-	9+	9+	2500	1	*
	Boscombe Down	1018.5	-2	SW	3	o	38	95	7	5	-	-	10	10	4000	4	*
	Calshot, (S'thmtn)	1018.8	-4	W'S	4	ir.	40	85	8	5	2	-	7-8	9	2500	1	1
	Dungeness	*	*	W	4	c	*	*	7	5	-	*	7-8	7-8	2500	*	2
	Lympne	1017.5	-1.0	W'S	4	z	36	95	6	5	2	-	9	10	2500	3	*
2	Shoeburyness	1017.0	+8	W	3	c	37	95	7	4	-	-	9+	9+	2500	0	*
	Felixstowe	1016.3	0	WSW	3	c	36	95	7	5	-	1	7-8	9	4000	1	2
	Gorleston	1014.0	+2	WSW	3	o	37	95	7	6	-	-	10	10	1500	1	2
	Cranwell	1013.5	-4	WSW	4	c/r	39	95	6	5	2	-	7-8	10	2500	1	*
3	Cardington	1015.7	-2	WSW	4	c	38	95	7	5	7	-	7-8	9+	4000	1	*
	Birmingham	1015.8	-2	WSW	3	id.	40	95	8	6	2	-	4-6	10	2500	1	*
	Upper Heyford	1016.7	-2	WSW	2	c	37	95	7	5	2	-	4-6	9	4000	4	*
	Leafield	1016.5	0	WSW	3	c	38	95	8	5	2	-	4-6	9+	4000	4	*
4	Ross-on-Wye	1017.4	0	WSW	2	c	43	85	8	5	-	-	10	10	2500	1	*
5	Portland Bill	1018.9	-8	W'S	5	c	45	85	8	4	-	-	7-8	7-8	1500	1	3
	Plymouth	1021.2	+6	NW	1	ir.	43	95	8	6	-	-	9+	9+	1500	1	0
	Falmouth	1022.4	+2	W'S	3	c	44	95	7	5	-	-	9	9	4000	1	0
	Scilly (St. Mary's)	1022.7	-6	NWW	5	c	47	95	8	5	-	-	7-8	7-8	4000	0	3
	Guernsey	1021.4	-4	W	2	r.r.	44	85	6	6	-	-	10	10	1500	1	2
6	Pembroke	1018.7	-2	WSW	3	o/d	47	95	7	8	-	-	10	10	1500	1	3
7	Holyhead	1015.6	+2	W	5	o	47	95	7	5	-	-	10	10	800	1	3
	Chester (Sealand)	1015.4	0	W	4	c/r	46	95	7	5	-	-	9+	9+	1500	1	*
8	L'pool (Bidston)	1013.6	-4	W'S	6	ir.	44	95	7	6	-	-	10	10	2500	1	*
9	Harrogate	1011.2	0	SWW	4	c	44	95	7	6	2	-	9	10	2500	1	*
10	Spurn Head	1010.6	-4	W	3	c/r	41	95	6	6	2	-	7-8	10	2500	1	4
	Tynemouth	1007.8	-1.0	WNW	3	o	46	95	7	6	-	-	10	10	1500	1	2
11	Inchkeith	1007.4	+6	WSW	4	c	45	85	8	5	2	-	2-3	7-8	1500	0	2
	Leuchars	1006.7	+2	W	4	c	44	75	7	5	-	-	7-8	7-8	2500	1	*
12	Renfrew	1010.2	+2	SW	3	c	46	85	7	5	-	-	9	9	2500	1	*
	Eskdalemuir	1010.8	+2.4	WNW	4	c	43	85	7	5	-	7	7-8	10	1500	1	*
13A	Tiree	1010.5	+1.4	WNW	3	o	48	95	6	5	-	-	10	10	800	1	2
13B	Stornoway	1006.1	+1.0	WNW	3	bc	45	85	7	4	-	-	4-6	4-6	4000	1	2
15	Dalwhinnie	1007.5	+6	W	2	c	42	85	8	5	-	-	7-8	7-8	2500	1	*
	Aberdeen	1004.7	+1.2	WNW	3	c	44	85	6	5	-	-	9	9	2500	1	1
	Wick	1001.0	+1.4	NW	4	c/r	44	95	8	9	1	-	4-6	7-8	1500	1	3
16	Lerwick	996.7	+4.0	NNW	3	bc	40	75	8	5	-	-	4-6	4-6	1500	1	*
17	Blacksod Point	1013.8	+1.4	W	6	c	50	85	7	-	2	-	0	10	-	0	4
18	Malin Head	1013.4	+1.0	WN	4	id.	49	95	5	6	-	-	10	10	800	1	3
	Aldergrove	1015.2	0	WSW	3	dd	45	95	6	5	-	-	10	10	800	1	*
	Donaghadee	1013.8	+1.2	W	2	bc	46	85	7	5	2	-	4-6	4-6	2500	1	1
19	Birr Castle	1019.0	+4	S	1	o	47	95	7	5	-	-	10	10	1500	1	*
20	Valentia Obsy.†	1024.3	+1.4	NWW	4	d.d.	49	95	5	5	-	-	10	10	800	1	3
	Roches Point	1020.6	-8	NW	3	c	47	95	8	3	-	-	9	9	1600	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 1931 Hrs. (36)
1	London (Kew)	37	33	31	Tr	0.1	6.2
	Croydon	36	33	29	-	0.1	1.5
	S. Farnborough	37	32	30	-	0.1	6.5
	Winchester	35	32	30	-	-	6.9
	Boscombe Down	34	30	30	-	-	*
	Calshot, (S'thmtn)	37	32	29	-	0.2	7.0
	Dungeness	38	29	*	-	0.2	*
	Lympne	34	30	27	-	0.2	6.3
2	Shoeburyness	37	31	28	-	0.2	6.7
	Felixstowe	36	32	31	Tr	1	6.1
	Gorleston	41	32	31	0.2	1	5.2
	Cranwell	34	32	31	Tr	0.4	3.3
3	Cardington	36	32	31	-	0.6	5.4
	Birmingham	35	34	32	-	Tr.	4.2
	Upper Heyford	35	32	30	-	-	*
	Leafield	33	31	29	-	-	5.8
4	Ross-on-Wye	37	34	31	-	-	6.7
5	Portland Bill	37	35	*	-	0.4	*
	Plymouth	40	35	30	-	0.3	7.3
	Falmouth	40	38	*	-	0.3	7.5
	Scilly (St. Mary's)	42	40	*	0.2	Tr.	4.6
	Guernsey	42	37	27	-	0.4	4.[illegible]
6	Pembroke	43	42	*	-	0.2	2.0
7	Holyhead	44	44	42	Tr	0.1	0.8
	Chester (Sealand)	40	39	37	-	Tr.	3.1
8	L'pool (Bidston)	39	38	37	Tr	0.3	4.2
9	Harrogate	36	36	34	Tr	-	0.5
10	Spurn Head	36	33	*	Tr	4	2.2
	Tynemouth	39	39	32	1	0.6	*
11	Inchkeith	43	41	40	0.4	-	0.0
	Leuchars	41	39	38	0.6	-	0.0
12	Renfrew	44	42	39	0.1	0.2	0.0
	Eskdalemuir	37	36	34	1	0.3	0.0
13A	Tiree	46	46	41	0.1	0.2	0.8
13B	Stornoway	47	45	*	4	2	0.0
15	Dalwhinnie	40	40	*	0.2	0.2	0.0
	Aberdeen	41	38	32	2	-	0.0
	Wick	44	42	*	2	1	*
16	Lerwick	46	39	*	7	3	0.0
17	Blacksod Point	47	45	*	0.1	1	*
18	Malin Head	46	45	*	0.6	0.6	1.0
	Aldergrove	40	39	39	0.1	0.3	0.0
	Donaghadee	43	41	33	-	0.1	*
19	Birr Castle	43	38	35	Tr	0.4	2.2
20	Valentia Obsy.†	46	45	42	1	2	2.2
	Roches Point	45	40	*	-	0.1	

LONDON OBSERVATIONS.

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

	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	bxbz.	cz bcz.	ozcmr.	37	33	31	Tr.	0.1	6.2	*	*	6
Croydon	217	bcmbbcm	bcmcff	cfos.m.	36	33	29	-	0.1	1.5	*	*	6
Greenwich (Royal Observatory)	149	bcb	bxc	cfisc.d.	36	33	28	Tr.	Tr.	4.0	71	92	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	2.1	*	*	*
Westminster (St. James' Park)	27	*	*	*	40	31	31	0.5		4.3	67	92	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	5.4	*	*	*
Camden Square	110	xbbc	bc	*	33	30		-	0.3	*	*	93	*
Kensington Palace	80	b	bc	*	36	34	30	-	0.2	*	At 18h. 70	92	*
Hampstead Observatory	450	cmbc 0	0 x	*	35	29	28	-	0.5	6.1	*	95	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.	Kew Observatory Max.	Time.	Min.	Time.
1.2	19h 14m	0.3	1-6h 15m	0.3	20h 14m	0.1	3h 15m

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 14th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 15th January 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	NNW	3	c	37	1022.9	SW	2	f	32	37	32	-	-
Brussels	1016.3	N	2	b	34	1019.1	SSW	2	o	30	37	25	-	-
Berlin	1007.5	WSW	2	s.s.	32	1016.4	WSW	2	bc	23	32	23	1	1
Zürich	1013.6	W	1	s.s.	30	1021.4	NNW	1	s.s.	28	30	27	0.4	Tr.
Rome						1012.1	ESE	2	r.r.	45		41		2

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 13.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 16th January 1931.

No. 25251

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

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)...	1016.4	-10	WSW	3	o	44	95	5	5	-	.	10	10	2500
	Croydon ...	1016.6	-10	WSW	4	z	45	85	6	5	2	-	7-8	10	1500
	S. Farnborough	1016.9	-8	WSW	3	c	44	95	6	5	-	.	10	10	450
	Winchester ...	1017.6	-10	W	3	c	44	95	6	5	-	.	10	10	800
	Boscombe Down	1018.2	-6	W	3	c	44	95	6	5	-	.	10	10	800
	Calshot, S'thmtn	1018.0	-6	W	4	c	46	85	6	5	-	-	10	10	800
	Dungeness ...	*	*	W	3	fm	*	*	45	5	-	-	10	10	4000
	Lympne ...	1016.1	-16	WSW	3	z	41	95	6	5	2	.	9	10	800
2	Shoeburyness	1015.8	-10	SW	3	o	43	85	6	5	-	-	10	10	1500
	Felixstowe ...	1015.2	-10	W'S	3	m	42	95	4	5	-	-	10	10	2500
	Gorleston ...	1012.6	-6	W	3	c	43	95	6	8	-	-	9+	9+	1500
	Cranwell ...	1013.1	-2	W'N	4	c	47	85	6	5	3	.	2-3	9+	5700
3	Cardington ...	1015.2	-6	WSW	3	c	44	85	7	5	-	-	10	10	1500
	Birmingham ...	1015.9	0	WNW	3	m	46	95	4	6	-	.	7-8	7-8	2500
	Upper Heyford	1016.2	-2	WNW	4	iro	45	85	8	6	2	-	4-6	9	1500
	Leafield ...	1016.2	0	W'N	4	c/r	44	95	7	6	2	.	1	9+	2500
4	Ross-on-Wye ...	1017.0	0	W'S	3	c	50	75	8	5	-	8	9	10	2500
5	Portland Bill...	1018.5	-6	W'S	4	c	48	85	8	4	.	-	9	9	1500
	Plymouth ...	1020.5	-6	NW'N	3	c	49	85	6	6	2	.	7-8	10	800
	Falmouth ...	1022.3	-8	NW'W	4	iro	49	95	7	6	1	.	4-6	10	2500
	Scilly (St. Mary's)	1023.2	0	NW	5	c	49	95	7	5	-	-	9	9	4000
	Guernsey ...	1021.4	-4	W	2	c/d	49	85	6	5	-	-	10	10	1500
6	Pembroke ...	1019.3	+2	W	3	c	49	95	7	8	2	.	9	10	1500
7	Holyhead ...	1016.6	+2	NWW	6	c	49	95	8	5	7	8	7-8	9+	1500
	Chester (Sealand)	1015.7	-2	WNW	6	q	50	85	7	6	2	-	7-8	10	800
8	L'pool (Bidston)	1014.9	0	W	5	o/ro	46	95	7	6	-	.	10	10	1500
9	Harrogate ...	1011.9	-6	SW	5	q	46	85	8	3	9	-	1	7-8	2500
10	Spurn Head ...	1011.0	0	NW'N	5	c	45	95	6	5	3	9	4-6	7-8	2500
	Tynemouth ...	1010.4	+6	WNW	3	bc	49	75	7	2	.	-	4-6	4-6	2500
11	Inchkeith ...	1009.3	-2	WSW	4	c	47	85	6	5	7	8	2-3	7-8	1500
	Leuchars ...	1008.3	+2	WSW	3	c	46	85	8	5	3	1	2-3	7-8	4000
12	Renfrew ...	1011.1	-2	W	3	c/do	49	85	6	5	3	-	9	9+	1500
	Eskdalemuir ...	1011.5	0	WNW	4	ido	45	95	6	5	-	-	10	10	800
13A	Tiree ...	1011.2	-2	W	5	ido	48	95	6	5	-	-	10	10	450
13B	Stornoway ...	1004.7	-18	WSW	4	DD	47	95	5	6	-	-	10	10	4000
15	Dalwhinnie ...	1008.8	-2	WSW	4	c	44	85	8	5	-	-	7-8	7-8	1500
	Aberdeen ...	1006.2	-4	SW	2	c	45	75	6	6	3	-	7-8	9	2500
	Wick ...	1004.0	-10	SW	3	c	44	95	7	5	2	-	4-6	9	1500
16	Lerwick ...	1000.5	-6	WNW	2	c	40	75	8	5	1	-	4-6	9+	1500
17	Blacksod Point	1021.7	0	W	6	c	49	85	6	8	-	-	9	9	*
18	Malin Head ...	1014.7	+4	W'S	4	ido	48	95	5	6	-	-	9+	9+	800
	Aldergrove ...	1016.2	+2	WSW	3	ido	47	95	7	6	2	-	9	10	450
	Donaghadee ...	1015.0	+6	WNW	2	ido	49	95	7	6	-	-	9	9	800
19	Birr Castle ...	1021.5	+6	W	1	dd	48	95	6	5	-	.	10	10	1500
20	Valentia Obsy.	1025.9	+2	NWW	4	c	48	85	8	5	-	-	7-8	7-8	1500
	Roches Point...	1021.9	-2	NW	5	c	50	85	8	3	-	-	7-8	7-8	1500

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

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)...	1017.9	+6	WSW	2	o	45	95	5	5	-	-	10	10	1500	1	*
Croydon ...	1017.8	+10	WSW	3	z	46	85	5	5	-	-	10	10	2500	1	*
S. Farnborough	1017.8	+2	W'S	2	c	46	95	6	5	-	-	9+	9+	1500	1	*
Winchester ...	1019.5	+14	W	1	c	43	95	6	5	-	-	7-8	7-8	2500	1	*
Boscombe Down	1019.2	+10	WNW	3	bc	44	95	7	5	-	-	4-6	4-6	1500	1	*
Calshot, S'thmtn	1019.2	+10	W	3	bc	44	95	7	5	4	-	2-3	4-6	4000	1	1
Dungeness ...	*	*	WSW	3	m	*	*	4	5	7-	*	7-8	9	2500	*	2
Lympne ...	1017.4	+6	WSW	3	z	43	95	5	5	2	-	7-8	10	2500	1	*
Shoeburyness	1017.0	+10	SWW	3	c	46	85	5	5	-	-	10	10	1500	1	*
Felixstowe ...	1016.0	+10	WNW	2	z	42	95	5	-	-	-	0	0	-	0	2
Gorleston ...	1013.8	+6	W	3	bc	43	95	6	5	-	-	2-3	2-3	1500	1	2
Cranwell ...	1014.7	+8	W	3	c	47	95	5	5	-	-	10	10	1500	1	*
Cardington ...	1016.3	+4	WSW	3	c	46	95	7	5	-	-	10	10	1500	1	*
Birmingham ...	1017.2	+6	WNW	3	o/do	47	95	7	6	-	.	10	10	1500	1	*
Upper Heyford	1017.1	+2	W	5	c/do	48	85	7	5	-	-	9+	9+	1500	1	*
Leafield ...	1017.1	+6	W'N	3	bc	45	95	7	5	-	-	4-6	4-6	4000	1	*
Ross-on-Wye ...	1018.1	+8	W	3	c	48	85	8	5	-	.	7-8	7-8	4000	1	*
Portland Bill...	1019.8	0	WNW	3	c	49	85	7	4	7	-	4-6	7-8	1500	1	3
Plymouth ...	1022.3	+10	NW	3	bc	49	95	7	5	-	-	4-6	4-6	1500	0	0
Falmouth ...	1023.1	+12	WNW	3	c	49	95	8	7	-	-	9	9	4000	1	1
Scilly (St. Mary's)	1025.0	+16	NNW	4	c	49	95	8	5	-	.	9+	9+	4000	0	2
Guernsey ...	1021.4	+12	NW	2	o/ro	49	95	7	5	-	.	10	10	1500	1	3
Pembroke ...	1020.9	+4	NW	3	c	49	85	8	8	6	-	7-8	9+	1500	1	2
Holyhead ...	1017.9	+6	WNW	5	c	48	95	7	5	-	-	9+	9+	2500	1	3
Chester (Sealand)	1017.0	+6	WNW	6	c/do	49	85	7	5	-	-	10	10	1500	1	*
L'pool (Bidston)	1016.1	+8	W'S	6	iro	46	95	8	6	-	-	10	10	1500	1	*
Harrogate ...	1013.3	+6	SW'W	4	c	47	95	7	6	.	-	9+	9+	2500	1	*
Spurn Head ...	1012.2	+6	W'N	4	c	45	95	6	5	2	-	4-6	10	450	0	4
Tynemouth ...	1011.4	+4	W	3	c	49	85	7	6	-	-	7-8	7-8	1500	1	2
Inchkeith ...	1008.0	-8	SW	5	c	47	95	7	5	2	-	2-3	7-8	5700	0	3
Leuchars ...	1006.5	-14	SW	5	bc	47	85	7	5	7	8	2-3	4-6	2500	1	*
Renfrew ...	1010.7	-6	W	4	ido	47	95	5	6	1	-	9	10	1500	1	*
Eskdalemuir ...	1011.6	+4	W	4	c	46	85	7	5	-	.	10	10	800	1	*
Tiree ...	1009.6	-14	W'S	5	ido	48	95	6	5	2	-	9+	10	800	1	3
Stornoway ...	1001.2	-24	WSW	6	rr	48	95	7	6	-	.	10	10	4000	2	4
Dalwhinnie ...	1006.8	-8	W	5	dodo	44	85	7	5	-	-	7-8	7-8	1500	1	*
Aberdeen ...	1002.4	-28	SSW	2	c	44	85	6	6	7	-	2-3	9	2500	1	1
Wick ...	998.6	-40	SW	3	iro	47	95	7	5	2	-	7-8	10	1500	1	3
Lerwick ...	995.3	-40	SE	2	roro	37	95	7	6	-	-	(10)	10	1500	1	*
Blacksod Point	1020.6	0	W	6	c	48	85	6	5	-	-	9	9	*	1	5
Malin Head ...	1013.8	-8	WSW	5	c/do	47	95	5	6	-	.	9+	9+	800	1	4
Aldergrove ...	1016.4	+2	SW'S	4	c	45	95	8	5	1	-	9	9+	800	1	*
Donaghadee ...	1014.9	-2	WSW	2	c	47	85	7	5	-	-	9	9	1500	1	1
Birr Castle ...	1021.6	+4	SW	2	c	46	95	7	5	-	.	9+	9+	2500	1	*
Valentia Obsy.	1026.0	+4	W'N	4	bc/pro	47	85	8	5	-	.	4-6	4-6	1500	1	3
Roches Point...	1023.2	+16	NW	4	c	47	85	8	3	-	-	7-8	7-8	1500	0	3

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)...	cdocmo	cmorooomo	cm	omo or
Croydon ...	cmoiro	cmororomm	cm	cm r
S. Farnborough	croo	cmocrorocmo	cm	cproc
Winchester ...	ccmo	cmo bc mo	bcmoc	c
Boscombe Down	ccmo	crocmobc	bcc	c
Calshot, S'thmtn	ciro mo	cidoiromo	bcc bbcoc	c, cir
Dungeness ...	co	co	*	o
Lympne ...	cmodo	cmo	com	om
Shoeburyness	cmooidoom	omocmo	cp	c
Felixstowe ...	cmocm	ozbzo	bbczo	bczozrr
Gorleston ...	ocmomo	cmomu	bccmo	coro roq
Cranwell ...	cmo	emo	cqdo	c
Cardington ...	crc	cprooc	c, b, c	crc
Birmingham ...	cdo	coido	oidoc	c
Upper Heyford	cro	crodo	c	c
Leafield ...	cro	cbc	bcc	c
Ross-on-Wye ...	c	c	c	cqc
Portland Bill...	cproc	c	c	c
Plymouth ...	coidomo	omodobc	bco	co
Falmouth ...	ciro	cido	coq	oc
Scilly (St. Mary's)	coid	c	c	cpoo
Guernsey ...	prcid	oiro	oco	o
Pembroke ...	odoq, c	cido	cq	cq
Holyhead ...	oc	c	prco	ro
Chester (Sealand)	iroc	cdo	ciro	o
L'pool (Bidston)	roiro	oqiro	oqiro	qrroq
Harrogate ...	cbcq	bcc	coid	coid
Spurn Head ...	c	c	cbccq	cpdpr
Tynemouth ...	obcq	bccq	cbcq	bccq
Inchkeith ...	c	c	c	ocbc
Leuchars ...	bccbc	bcc	bc	bc
Renfrew ...	cido	cido	cro roq	ciroq
Eskdalemuir ...	cidomo	oidocqc	cido or	oroid
Tiree ...	omirdmoid	omoidoc	cido Or DR	id
Stornoway ...	id, dd, o	oddrr	odd	oidoq
Dalwhinnie ...	c	dodo	ro ro	roro
Aberdeen ...	czo	cczo	bc	bcc
Wick ...	cprc	cdodiro	cirbc	bcc
Lerwick ...	bcc	coroo	orroc	cir c
Blacksod Point	do	id	id	idq
Malin Head ...	ocidomm	cidomomo	oid mm	oidomm
Aldergrove ...	oddmocid	cido	c ido	cro id
Donaghadee ...	bccido	cidoc	c	procq
Birr Castle ...	odd	odc	cdoc	cod
Valentia Obsy.	oddoidoc	cpobc	bccpo	coido iro
Roches Point...	c	cpoc	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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity; thus,

R, heavy rain. r_o, slight rain. rr, continuous rain.

<, less than (for cloud height).

⊕, solar halo. ♅, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

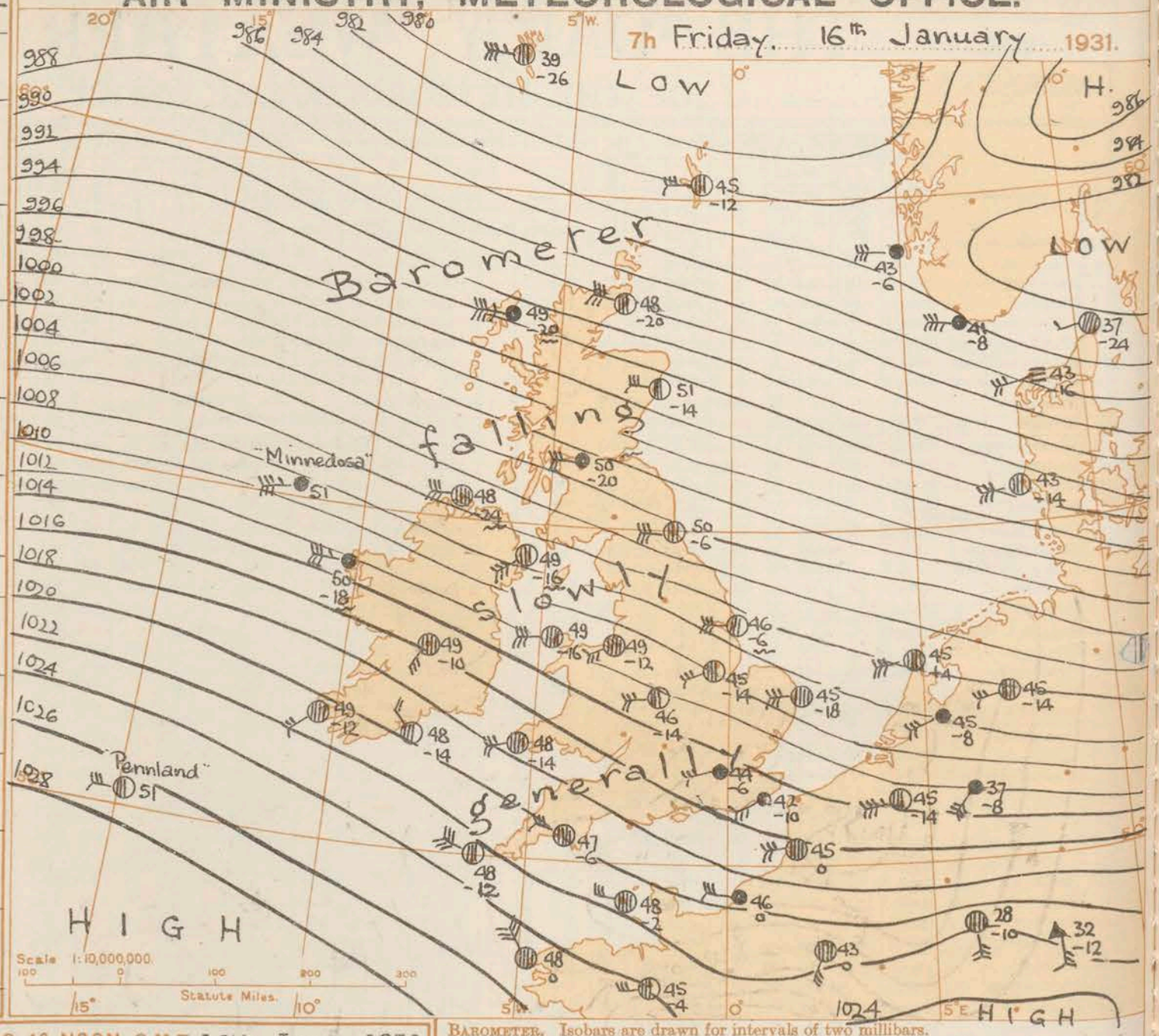
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 15th January 1931.

Districts.	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.	odo	o	29	44	0.3	Trace	0.0
	Bournemouth	odo	odo	29	47	0.3	0.3	0.0
	Ventnor ...	cvom	omrau	30	46	0.5	0.5	0.0
	Southsea ...	o	od	31	46	0.6	0.2	0.0
	Bognor Regis	co	orro	31	46	0.5	1	0.0
	Littlehampton	c	cpc	30	45	0.5	0.4	0.0
	Worthing ...	or	or	31	46	0.5	0.3	0.0
	Brighton ...	odo	o	32	45	0.6	Trace	0.0
	Eastbourne†	or o	o	33	45	0.3	Trace	0.6
	Hastings† ...	copco	ocom	32	45	0.1	0.3	0.0
	Folkestone ...	xomd	ad m	32	45	–	Trace	0.0
	Dover... ...	co	oc	30	45	Trace	–	0.0
	Deal	co	o	32	45	0.3	–	0.0
	Ramsgate ...	c	c	32	45	0.4	–	0.0
	Margate ...	cd	c	32	46	0.3	Trace	0.0
2	Southend ...	co	om	30	45	0.2	–	0.0
	Maldon ...	rmo	oc	33	46	0.5	–	0.0
	Clacton-on-Sea	cmpc	cbc	31	44	1	0.1	0.0
	Dovercourt ...	roc	ocbc	31	45	0.2	–	0.0
	Lowestoft ...	omid	ocbc	31	42	1	0.1	0.0
	Skegness ...	obc	bco	29	49	1	–	0.8
	Mablethorpe	ocm	com	31	49	1	–	0.8
	Cleethorpes ...	oc	c	29	49	1	–	2.7
3	Leamington S.	c	eod	30	47	–	0.1	0.0
4	Cheltenham†	opmc	c	32	49	–	Trace	0.0
5	Bath	cr	c	31	48	Trace	Trace	0.0
	Weymouth ...	c	cpc	32	49	–	–	0.0
	Jersey ...	crc	odc	40	48	–	0.6	0.0
	Torquay ...	dpcm	corpc	31	50	Trace	0.2	0.0
	Penzance ...	oidc	crb	39	51	1	0.3	0.9
	St. Ives ...	o	o	38	50	0.3	–	0.0
	Bude	ode	ode	33	50	4	0.3	0.0
	Ilfracombe ...	o	o	36	49	0.4	–	0.0
6	Aberystwyth	cpr	prc	28	46	0.5	1	0.0
7	Llandudno ...	p	oc	37	48	0.6	–	0.0
	Colwyn Bay...	o	o	37	49	1	–	0.0
	Rhyl	ogod	o	37	48	0.3	0.1	0.0
8	Wallasey ...	rc	o	35	46	0.5	0.3	0.0
	Southport‖ ...	o	odo	41	46	0.3	0.1	0.0
	Blackpool ...	o	c	32	46	0.4	–	0.0
	Morecambe ...	rapc	odpc	36	47	1	Trace	0.0
9	Ilkley ...	ocbc	cod	27	48	Trace	Trace	0.7
10	Berwick-on-T.	bcc	bcbc	30	50	–	–	3.3
11	Dunbar ...	bcm	bcm	32	49	Trace	–	2.8
12	Douglas ...	circ	o	30	49	0.5	Trace	0.0

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



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 16th Jan., 1931.

Districts.	Forecast
1. S.E. England ↓	Fresh or strong westerly winds, stronger perhaps at times locally; cloudy, occasional rain; mild.
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 ↓	Strong westerly winds, reaching gale force at times in exposed places; cloudy, occasional rain; 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 ↓	
19. S.E. Ireland ↓	As 1 - 9.
20. S.W. Ireland ↓	

GENERAL INFERENCE.

Depressions to the north of Scotland will move eastward while small secondaries are likely to cross the British Isles. Conditions will be mild and unsettled generally with winds mainly from a westerly point.

FURTHER OUTLOOK.

Unsettled.

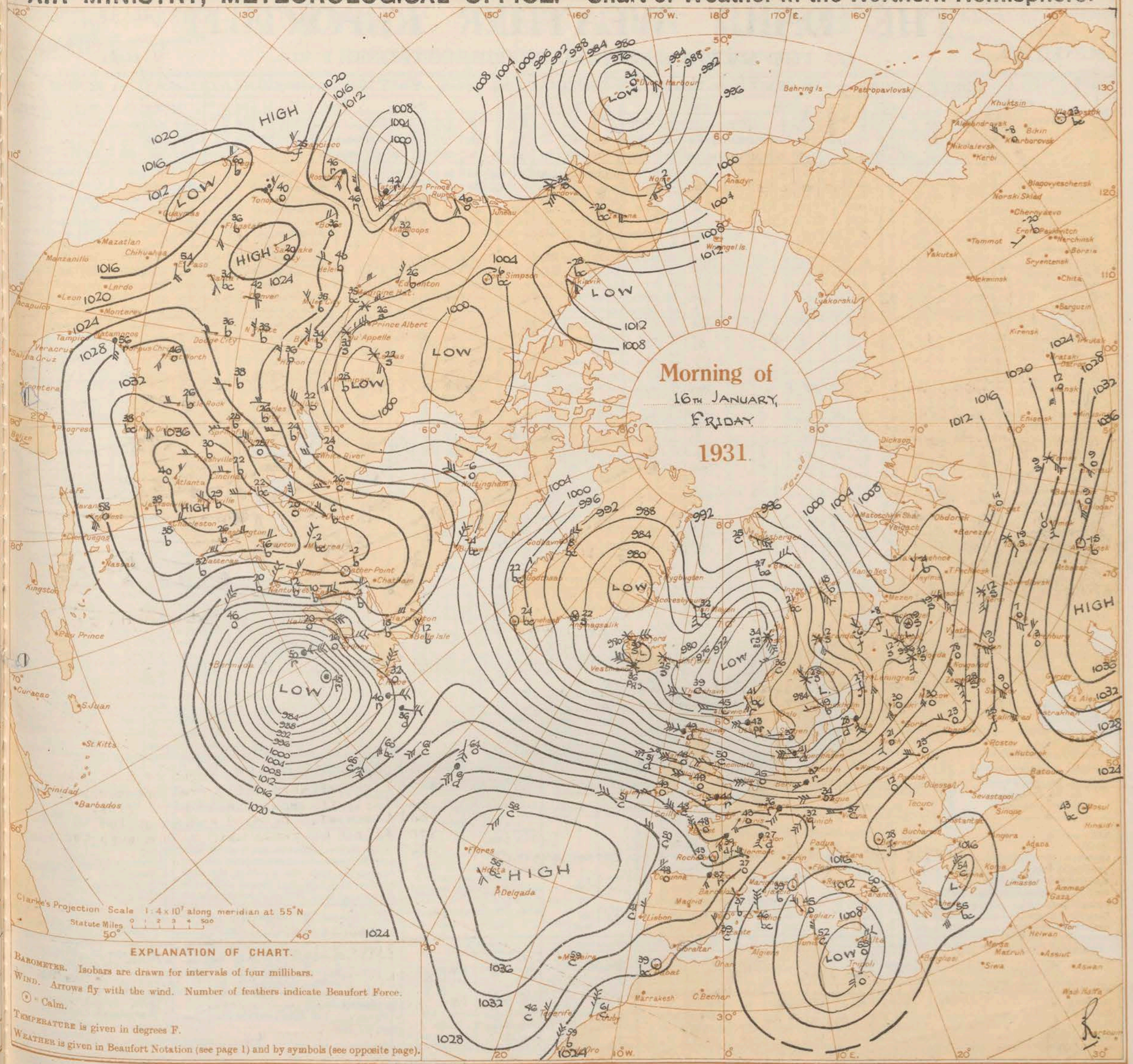
Times of issues of Gale Warnings.

↓ South Cone at 1405 on 15th in 7,8,10,11,12, 13A,13B,15,16,17,18,19.
↓ South Cone at 1910 on 15th in 1,2,5,6,20.

Forecasts issued at 1000 G.M.T. G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

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

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday 16th January 1931.

No. 25257

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

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	1017.5	-2	WS	3	2	47	85	6	5	7	-	4-6	9+	2500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1019.3	+2	W	4	c	45	85	8	5	7	-	4-6	9	4000
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1017.1	-2	WSW	3	2	44	95	5	5	-	-	10	10	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	1012.5	-8	WN	4	c	47	95	7	6	2	-	4-6	10	2500
	Cranwell	240	1012.6	-10	WN	5	c	45	85	7	5	-	-	9	9	1500
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1019.9	0	WN	4	c	47	85	8	4	7	-	4-6	9	1500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	1025.0	+4	NNW	4	0	48	95	8	5	-	-	10	10	4000
	Scilly (St. Mary's)	163	1024.8	-2	NNW	6	c/pr	48	85	7	8	-	-	7-8	7-8	4000
	Guernsey	173	1022.3	+2	WNW	2	0	49	85	7	5	-	-	10	10	2500
6	Pembroke	142	1020.9	-2	WSW	4	q	47	85	8	8	-	-	9+	9+	1500
7	Holyhead	26	1015.9	-12	W	6	0	48	95	7	5	-	-	10	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1003.2	-4	WNW	6	c	45	95	7	5	2	-	2-3	9+	4000
	Tynemouth	67	1005.6	-12	W	6	bc	48	85	8	2	-	-	4-6	4-6	2500
11	Inchkeith	190	1002.5	-20	WSW	7	c	49	85	8	5	1	-	4-6	10	2500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	993.3	0	W	8	d.d.	49	95	6	6	-	-	10	10	4000
15	Dalwhinnie	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	993.9	-6	WNW	6	bc	49	85	8	9	-	8	4-6	4-6	1500
16	Lerwick	54	985.9	-20	WS	5	c	47	95	8	5	1	-	4-6	7-8	1500
17	Blacksod Point	10	1017.0	-18	W	7	c	50	95	6	-	2	-	0	10	-
18	Malin Head	51	1009.9	-8	W	6	id.	48	95	5	6	-	-	10	10	800
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1024.2	-10	W	7	c	48	95	8	3	-	-	10	10	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1015.2	-10	WSW	3	r.c.	44	85	6	6	-	-	10	10	2500	1	*
	Croydon	1016.2	-6	WSW	4	r.c.	44	85	6	6	2	-	9	10	1500	1	*
	S. Farnborough	1015.8	-32	WSW	3	0	45	85	7	5	-	-	10	10	1500	1	*
	Winchester	1016.7	-4	W	4	c	45	85	7	5	-	-	9+	9+	2500	1	*
	Boscombe Down	1017.2	+8	W	4	0	45	85	7	5	-	-	10	10	800	1	*
	Calshot, (S'thmtn)	1017.4	-14	WN	4	c	46	86	8	3	7	-	7-8	9	1500	1	1
	Dungeness	*	*	W	4	0	*	*	7	5	-	*	10	10	2500	*	3
	Lympne	1015.8	-10	WSW	4	i.c.	42	95	6	6	2	-	4-6	10	2500	1	*
2	Shoeburyness	1014.0	0	WSW	4	c	44	95	7	5	-	-	9+	9+	800	1	*
	Felixstowe	1012.6	-12	W	4	r.c.	45	85	5	6	-	-	10	10	1500	1	3
	Gorleston	1009.4	-18	W	4	o/r	45	86	6	6	-	-	10	10	1500	1	3
	Cranwell	1010.3	-14	WSW	4	c	45	95	7	5	1	-	7-8	10	1500	1	*
3	Cardington	1013.1	-18	WSW	5	c	44	85	8	5	7	-	9	10	2500	1	*
	Birmingham	1012.9	-14	W	5	c	46	85	8	5	7	-	2-3	9	4000	1	*
	Upper Heyford	1014.6	-16	WSW	3	c	43	85	8	5	2	-	9	10	1500	1	*
	Leafield	1014.7	-14	SWW	3	c	43	85	7	5	-	-	9+	9+	4000	1	*
4	Ross-on-Wye	1015.6	-14	WS	4	c	47	86	8	5	-	-	9	9	2500	1	*
5	Portland Bill	1017.2	-16	W	5	c	48	85	8	4	7	-	7-8	10	1500	1	3
	Plymouth	1020.9	-6	WNW	4	0	47	86	7	5	-	-	10	10	1500	1	1
	Falmouth	1023.0	-10	W	4	c	48	95	8	5	-	-	9	9	4000	0	2
	Scilly (St. Mary's)	1023.5	-12	NWW	6	c	48	95	7	5	-	-	9+	9+	4000	1	3
	Guernsey	1022.0	-2	WNW	3	0	48	76	7	5	-	-	10	10	2600	0	3
6	Pembroke	1017.6	-14	W	5	0	48	85	8	5	-	-	10	10	2500	1	2
7	Holyhead	1012.6	-16	W	6	c	49	95	7	5	-	-	10	10	1500	1	3
	Chester (Sealand)	1012.6	-12	WS	4	0	49	86	8	5	-	-	10	10	1500	1	*
8	L'pool (Bidston)	1010.4	-16	WSW	7	q	47	95	8	5	-	-	10	10	1500	1	*
9	Harrogate	1008.6	-6	SWW	5	i.c.	46	95	7	6	2	-	9	10	2500	1	*
10	Spurn Head	1007.0	-6	WN	6	c	46	95	6	3	2	-	4-6	10	4000	0	5
	Tynemouth	1002.7	-6	W	6	c	50	85	8	6	-	-	7-8	7-8	1500	0	3
11	Inchkeith	1000.7	-10	WSW	7	bc	49	95	7	5	-	-	4-6	4-6	4000	0	4
	Leuchars	999.3	-20	WSW	6	bc	51	75	8	-	7	-	0	4-6	-	1	*
12	Renfrew	1002.7	-24	W	5	i.c.	50	95	7	6	-	-	9	9	1500	1	*
	Eskdalemuir	1003.6	-20	W	6	id.	48	95	6	5	-	-	10	10	800	1	*
13A	Tiree	1001.7	-30	WSW	6	dd	49	95	6	5	-	-	10	10	220	1	3
13B	Stornoway	994.5	-20	W	8	id	49	85	6	6	-	-	10	10	4000	2	5
15	Dalwhinnie	999.4	-16	W	6	r.c.	46	85	7	5	-	-	9	9	1500	1	*
	Aberdeen	998.8	-14	W	4	c	51	65	8	-	7	-	0	7-8	-	1	1
	Wick	993.6	-20	WNW	6	c	48	85	8	3	2	-	4-6	10	1500	1	3
16	Lerwick	982.4	-12	W	4	c	45	75	7	5	2	-	4-6	7-8	1500	1	*
17	Blacksod Point	1013.6	-18	W	7	dd	50	95	6	6	-	-	10	10	4150	1	5
18	Malin Head	1005.8	-24	W	6	o/d	48	95	5	6	-	-	10	10	800	1	4
	Aldergrove	1008.8	-14	SWW	6	id.	47	95	7	5	1	-	7-8	9+	1500	1	*
	Donaghadee	1008.1	-16	SW	6	q	49	95	7	5	-	-	7-8	7-8	1500	1	4
19	Birr Castle	1016.0	-10	SW	3	0	49	96	7	5	-	-	10	10	2500	1	*
20	Valentia Obsy.†	1021.8	-12	SWW	4	o/r	49	95	6	5	-	-	10	10	800	1	3
	Roches Point	1019.6	-14	NW	2	c	48	96	8	3	-	-	9	9	1500	0	2

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h-18h °F. (31)	Temperature Min. Night 18h-7h °F. (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h-18h mm. (34)	Rainfall Night 18h-7h mm. (35)	Sunshine Hrs. (36)
1	London (Kew)	45	44	42	0.2	0.3	0.0
	Croydon	46	44	41	0.1	Tr.	0.0
	S. Farnborough	46	43	40	0.6	0.1	0.0
	Winchester	45	43	39	Tr	-	0.0
	Boscombe Down	45	42	39	0.3	Tr.	*
	Calshot, (S'thmtn)	47	43	43	0.3	Tr.	0.0
	Dungeness	45	44	*	Tr	Tr.	*
	Lympne	43	41	39	Tr	Tr.	0.0
2	Shoeburyness	46	43	42	Tr	Tr.	0.0
	Felixstowe	44	42	39	-	0.3	0.0
	Gorleston	45	41	38	-	1	0.0
	Cranwell	48	45	43	-	Tr.	0.1
3	Cardington	47	44	43	0.1	0.3	0.0
	Birmingham	47	44	43	Tr	Tr.	0.0
	Upper Heyford	48	41	40	0.3	-	*
	Leafield	46	41	38	0.2	-	0.1
4	Ross-on-Wye	50	45	42	-	-	0.1
5	Portland Bill	49	47	*	-	-	*
	Plymouth	50	47	46	-	-	*
	Falmouth	50	47	*	Tr	-	0.1
	Scilly (St. Mary's)	50	46	*	Tr	Tr.	0.2
	Guernsey	49	48	44	2	-	0.0
6	Pembroke	50	46	*	0.1	-	0.0
7	Holyhead	49	47	45	-	1	0.1
	Chester (Sealand)	50	47	44	Tr	0.3	0.0
8	L'pool (Bidston)	46	45	43	0.1	0.6	0.0
9	Harrogate	47	45	43	-	0.1	0.6
10	Spurn Head	46	44	*	-	0.3	2.6
	Tynemouth	49	48	44	-	-	*
11	Inchkeith	48	45	44	-	-	2.6
	Leuchars	49	46	43	-	-	2.1
12	Renfrew	50	47	45	Tr	2	0.7
	Eskdalemuir	47	44	~~39~~ 42	0.1	2	~~0.0~~ 0.8
13A	Tiree	48	48	43	0.6	3	0.0
13B	Stornoway	49	49	*	1	5	0.0
15	Dalwhinnie	45	44	*	0.4	3	1.4
	Aberdeen	47	44	37	-	-	0.3
	Wick	47	47	*	0.6	2	*
16	Lerwick	40	37	*	2	10	0.3
17	Blacksod Point	50	47	*	1	0.2	*
18	Malin Head	49	47	*	0.3	1	0.0
	Aldergrove	48	44	43	0.3	0.3	0.0
	Donaghadee	49	47	*	0.1	0.4	*
19	Birr Castle	48	45	42	1	Tr.	0.0
20	Valentia Obsy.†	49	46	44	0.3	0.5	0.3
	Roches Point	50	46	*	Tr	-	*

LONDON OBSERVATIONS.

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

	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	cd.cm.	cm.r.om.	om.or.	45	44	42	0.2	0.3	0.0	*	*	6
Croydon	217	cm.r.	cm.r.mm.	cm.r.	46	44	41	0.1	Tr.	0.0	*	*	6
Greenwich (Royal Observatory)	149	od.m	od.m.f.m	od.f.m	47	44	39	Tr.	1	0.0	93	90	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park)	27	*	*	*	47	40	39		1	0.0	91	86	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	odo	odo	*	45	44	42	Tr.	1	*	*	88	*
Kensington Palace	80	co	om	*	46	44	40	0.2	0.6	*	At 18h. 95	91	*
Hampstead Observatory	450	od	rmo	*	46	41	36	0.3	0.5	0.0	*	95	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
1.0	20h 15m	<0.3	0-7h 16th

Kew Observatory Max.	Time.	Min.	Time.
0.2	17h 15m	<0.1	2h 16th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 15th January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 16th January 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	1022.6	SW	4	d.d.	37	1021.3	SW	2	0	43	39	37	0.1	1
Brussels	1017.6	WSW	3	d.d.	36	1014.8	W	3	c/d	43	36	36	0.5	1
Berlin						1004.3	WSW	3	i.c.	37		30		2
Zürich	1025.2	NW	1	m	27	1025.6	S	1	m	23	32	21	-	-
Rome	1009.9	ENE	3	c	45						46		9	

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 17th January 1931.

No. 25258

OBSERVATIONS at 13h. G.M.T. 16th January

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)...	1011·3	-30	sww	4	c	48	85	6	5	2	-	4-6	10	2500
	Croydon ...	1011·9	-34	wsw	5	z	48	85	5	5	2	-	7-8	10	800
	S. Farnborough	1011·9	-30	wsw	4	c	49	85	7	5	-	-	10	10	1500
	Winchester ...	1013·3	-30	w	5	c	48	85	7	5	-	-	10	10	800
	Boscombe Down	1013·5	-30	w'n	6	c	48	85	7	5	2	-	9	10	800
	Calshot, S'thmtn	1014·2	-28	w's	4	c	48	85	7	5	2	-	7-8	9+	1500
	Dungeness ...	*	*	w	5	c	*	*	7	5	2	*	4-6	7-8	4000
	Lympne ...	1011·8	-28	sww	4	z	45	95	6	5	-	-	10	10	1500
2	Shoeburyness	1010·1	-30	wsw	5	c	47	85	6	5	2	-	4-6	10	2500
	Felixstowe ...	1008·6	-34	w's	4	z	47	85	6	5	2	-	4-6	10	1500
	Gorleston ...	1005·6	-20	w	4	o	46	85	6	6	-	-	10	10	1500
	Cranwell ...	1004·5	-42	w's	6	c	49	85	6	5	7	-	7-8	10	2500
3	Cardington ...	1008·8	-34	wsw	4	c	49	75	8	5	7	8	Tr	9+	1500
	Birmingham ...	1009·6	-26	wsw	4	c	49	85	8	6	-	-	9+	9+	2500
	Upper Heyford	1009·5	-44	wsw	5	c	51	75	8	5	7	6	2·3	7-8	2500
	Leafield ...	1010·2	-26	wsw	5	bc	50	85	7	1	4	8	Tr	4-6	1500
4	Ross-on-Wye ...	1011·6	-26	w's	3	c	50	85	8	4	7	9	2·3	7-8	4000
5	Portland Bill...	1015·9	-12	wsw	5	c	48	85	7	4	7	-	7-8	10	1500
	Plymouth ...	1018·5	-18	w'n	4	c	49	95	7	5	-	-	9	9	1500
	Falmouth ...	1020·8	-18	w's	5	c	49	95	7	5	-	-	9	9	2500
	Scilly (St. Mary's)	1020·7	-24	wnw	7	c	50	85 (red: 9)	6	5	-	-	7-8	7-8	4000
	Guernsey ...	1019·8	-16	w	4	o	50	85	7	5	-	-	10	10	2500
6	Pembroke ...	1013·8	-20	wsw	5	q	49	95	7	5	-	-	10	10	2500
7	Holyhead ...	1008·7	-26	wsw	4 (red: 6)	c	50	95	7	5	7	-	4-6	10	800
	Chester (Sealand)	1007·9	-30	wsw	4	iro	51	85	8	6	1	-	4-6	10	800
8	L'pool (Bidston)	1005·7	-30	w's	7	q	49	85	8	6	-	-	10	10	1500
9	Harrogate ...	1003·0	-10	sw	7	roro	47	95	8	6	2	-	9	10	2500
10	Spurn Head ...	1002·1	-4	w	5	q	48	95	7	5	2	-	2·3	10	4000
	Tynemouth ...	996·9	-32	w	6	c	52	85	7	6	-	-	9	9	1500
11	Inchkeith ...	993·5	-22	wsw	7	iro	49	95	7	6	2	-	4-6	10	1500
	Leuchars ...	992·3	-38	wsw	5	clro	51	75	8	7	7	1	1	9	2500
12	Renfrew ...	996·4	-44	w	4	rr	50	95	5	6	-	-	10	10	1500
	Eskdalemuir ...	997·3	-36	w's	6	rr	48	85	6	6	-	-	10	10	800
13A	Tiree ...	994·1	-48	wsw	6	c	49	95	7	5	3	8 (red)	2·3	9	1500
13B	Stornoway ...	986·8	-40	w	7	c	47	85	6	3	6	-	7-8	9+	4000
15	Dalwhinnie ...	992·0	-38	w	6	c	44	85	8	5	-	-	7-8	7-8	4000
	Aberdeen ...	988·0	-44	wsw	2	bc	52	75	8	5	3	1	1	2·3	2500
	Wick ...	984·7	-40	w	4	c	45	95	8	5	7	-	4-6	7-8	1500
16	Lerwick ...	977·5	-40	w'n	5	phr	40	75	7	6	2	-	4-6	10	1500
17	Blacksod Point	1007·1	-18	wsw	7	iD	51	95	7	6	-	-	10	10	<450 (red)
18	Malin Head ...	998·7	-30	wsw	6	ido	49	95	5	6	-	-	10	10	450
	Aldergrove ...	1002·6	-38	sw	5	roro	49	95	7	6	-	-	10	10	800
	Donaghadee ...	1001·8	-30	sw	4	iro	51	95	7	6	-	-	9	9	800
19	Birr Castle ...	1011·1	-28	sw	4	rr	50	95	7	6	-	-	10	10	2500
20	Valentia Obsy.	1018·0	-30	sww	5	ido	50	95	6	5	-	-	10	10	800
	Roches Point...	1016·0	-20	nw	4	c	51	85	9	3	-	-	7-8	7-8	1500

OBSERVATIONS at 18h. G.M.T. 16th January

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)	1006·3	-40	wsw	5	c	49	85	6	5	-	-	10	10	1500	1	*
Croydon	1007·7	-30	wsw	6	q	49	85	6	5	-	-	9	9	800	1	*
S. Farnborough	1007·6	-38	wsw	5	dpr	49	85	8	5	-	-	9	9	1500	1	*
Winchester	1008·9	-34	w	6	c	49	85	8	5	-	-	7-8	7-8	1500	1	*
Boscombe Down	1009·5	-32	w'n	6	q	48	85	8	5	2	-	9	9+	800	1	*
Calshot, S'thmtn	1010·5	-30	w's	4	c	49	85	8	5	2	-	4-6	10	1500	0	1
Dungeness	*	*	sw	7	z	*	*	5	5	-	*	10	10	1500	*	4
Lympne	1007·3	-32	wsw	4	z	46	95	5	5	-	-	10	10	450	1	*
Shoeburyness	1004·5	-38	wsw	6	c	49	85	8	5	-	-	9+	9+	2500	1	*
Felixstowe	1003·4	-34	wsw	5	z	49	85	6	5	-	-	7-8	7-8	1500	1	4
Gorleston	999·5	-40	w's	5	c	50	85	8	4	-	-	7-8	7-8	2500	0	3
Cranwell	998·0	-50	w's	7	c	49	85	8	5	-	-	10	10	1500	1	*
Cardington	1003·2	-36	wsw	6	c	49	85	8	5	1	-	7-8	9	1500	1	*
Birmingham	1004·3	-30	w	5	pro	50	85	8	6	-	-	10	10	1500	1	*
Upper Heyford	1003·9	-54	w	6	q	48	85	8	5	2	-	7-8	9	1500	1	*
Leafield	1005·2	-34	wsw	6	o	46	95	7	6	-	-	10	10	2500	1	*
Ross-on-Wye	1006·0	-36	wsw	5	q	56 (red correction)	85	8	5	2	-	4-6	10	2500	1	*
Portland Bill	1011·5	-18	wsw	6	c	50	85	8	4	7	-	7-8	10	1500	1	4
Plymouth	1015·1	-22	w	6	o	49	95	7	6	-	-	10	10	800	1	3
Falmouth	1017·2	-10	wsw	5	dd	49	95	6	6	2	-	7-8	10	2500	1	3
Scilly (St. Mary's)	1017·2	-20	w	7	c	49	95	6	2	-	-	9+	9+	4000	1	5
Guernsey	1016·7	-26	w	4	ido	50	85	6	6	-	-	10	10	1500	1	4
Pembroke	1008·9	-20	wsw	7	q	50	95	7	5	-	-	10	10	2500	1	4
Holyhead	1003·4	-30	wsw	5 (red: 7)	c	51	85	6	5	-	-	10	10	1500	1	3
Chester (Sealand)	1001·5	-40	w's	5	q	52	85	8	5	1	-	7-8	9	1500	1	*
L'pool (Bidston)	999·3	-34	wsw	8	dodo	49	95	7	6	-	-	10	10	1500	1	*
Harrogate	993·8	-34	sw	9	iro	48	95	7	6	-	-	1	1	2500	1	*
Spurn Head	993·0	-26	w	7	q	50	95	7	5	2	-	4-6	10	4000	0	5
Tynemouth	986·8	-60	w	7	bc	52	85	7	2	-	-	2·3	2·3	2500	0	3
Inchkeith	986·0	-32	wsw	8	bc	46	75	8	5	-	-	4-6	4-6	4000	0	4
Leuchars	984·9	-22	wnw	7	pro	44	85	8	3	-	3	7-8	7-8	2500	1	*
Renfrew	991·8	-10	wnw	8	PR	43	95	7	8	-	-	9	9	2500	2	*
Eskdalemuir	990·7	-38	wnw	8	pro	44	75	6	5	-	-	7-8	7-8	800	1	*
Tiree	992·9	+16	wnw	8	c/phr	43	85 (red mark)	7	8	9	9	4-6	7-8	1500	1	5
Stornoway	983·9 (red)	0 (red)	wnw (red)	9 (red)	bc/ph(r) (red)	39 (red)	85 (red)	6 (red)	3 (red)	- (red)	- (red)	4-6 (red)	4-6 (red)	4000 (red)	6 (red)	5 (red)
Dalwhinnie	986·3	-14	w	6	c	40	75	7	5	-	-	7-8	7-8	2500	1	*
Aberdeen	982·5	-20	wnw	5	pr	41	85 (red mark)	8	9	-	-	7-8	7-8	2500	1	1
Wick	978·5	-26	wnw	4	rr	(42)	95	8	9	2	-	7-8	9	1500	1	3
Lerwick	969·7	-52	w'n	5	bc	40	75	8	8	-	-	4-6	4-6	1500	1	*
Blacksod Point	1007·7	+10	wnw	8	u	49	65	6	5	-	-	9+	9+	*	0	6
Malin Head	997·7	+10	w	8	ir	46	75	6	9	-	-	9+	9+	1500	1	5
Aldergrove	999·9	-8	w's	6	iro	46	75	7	6	-	-	9	9	1500	1	*
Donaghadee	996·5	-8	wsw	6	q	50	85	7	6	-	-	7-8	7-8	800	1	4
Birr Castle	1007·9	-10	wsw	6	iro	52	85	7	5	-	-	10	10	1500	1	*
Valentia Obsy.	1015·6	-10	sw'w	5	dodo	50	95	6	5	-	-	10	10	800	1	4
Roches Point	1012·1	-20	nw	5	c	51	95	8	3	-	-	7-8	7-8	1500	0	3

PAST 24 HOURS. WEATHER.

Stations	7h.–13h. 16th (37)	13h.–18h. 16th (38)	18h. 16th to 1h. 17th (39)	1h.–7h. 17th (40)
London (Kew)	orocmo	cmo	cmobcq	bcqy
Croydon	crormo	cmoq	croq	cmob
S. Farnborough	croc	pr	c	bbc
Winchester	c	c	croq	cqbc
Boscombe Down	ccq	cq	cqirocq	cqbcq
Calshot, S'thmtn	~~cock~~ coc (red)	cq	c,cidocbcq	bq
Dungeness	co	co	*	bbc
Lympne	cromo	cmo	omoc	cbcb
Shoeburyness	orocmo	cmocq	cpoq	bq
Felixstowe	ozocroroc	czo	czobc	bq
Gorleston	oq	ocq	cbcorroq	ocbcq
Cranwell	ccmo	ccpoc	cb,crb	b,cporb
Cardington	c	c	cqprb	bq
Birmingham	c	cpro	coPRq	c
Upper Heyford	cbc	cqro	cpoq	cbccpoq
Leafield	cbc	bcco	orocq	bcq
Ross-on-Wye	cbcc	ccdqc	doqciQ	cq
Portland Bill	c	c	cPRc	c
Plymouth	omidoc	coidq	oqmoc	cprbq
Falmouth	cidomo	cidmoq	omorcq	cPbcq
Scilly (St. Mary's)	cid	cmid	omdoo	omdc
Guernsey	o	ooid	odordq	oddoc
Pembroke	cdoq	cq	cbcq	bccdoq
Holyhead	procqc	proc	probcmoq	bbccproq
Chester (Sealand)	cq	procq	cPRQ	cbcq
L'pool (Bidston)	oqro	oqrd	orooc	cbccq
Harrogate	codoro	cbroroQ	bbcQir	bbcQir
Spurn Head	cq	cq	cproqbc	bcq
Tynemouth	cq	cbcq	bcpq	bcq
Inchkeith	ororo	ocbcpl	cpoprbc	bcqpr
Leuchars	bcciro	cirocproq	bcprq	cRbcprbq
Renfrew	orrmoq	roqPq	boprq	prqprq
Eskdalemuir	ododoorr	orrcproq	cprsq (red)	cpRsqpso (red)
Tiree	odDrDrc	cprorPH	bcphr	PHRqpo
Stornoway	oirq	oqlPh (red)	ophrtlbc (red)	cphg (red)
Dalwhinnie	roroc	iRq	isq	iso
Aberdeen	cbc	bccpr	bcprsh	bcprsh
Wick	crrcprc	ciR	ciRc	cPRS
Lerwick	cphr	cphrbc	bcpropsh	cpsh,bc
Blacksod Point	id	cu	prqc	prqc
Malin Head	oRdomomo	oidsqirmomo	cbcQipbl	bcQphr
Aldergrove	idoorr	ororociro	bcqpr	bccqpr
Donaghadee	cpro	cprocprq	bprq	bprbq
Birr Castle	oro	oroidoq	oidoc	c
Valentia Obsy.	oidido	ododo	ododocirbc	bcc
Roches Point	cv	cpoc	cpobc	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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,

R, heavy rain. r_o, slight rain. rr, continuous rain.

<, less than (for cloud height).

⊕, solar halo. ♁, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

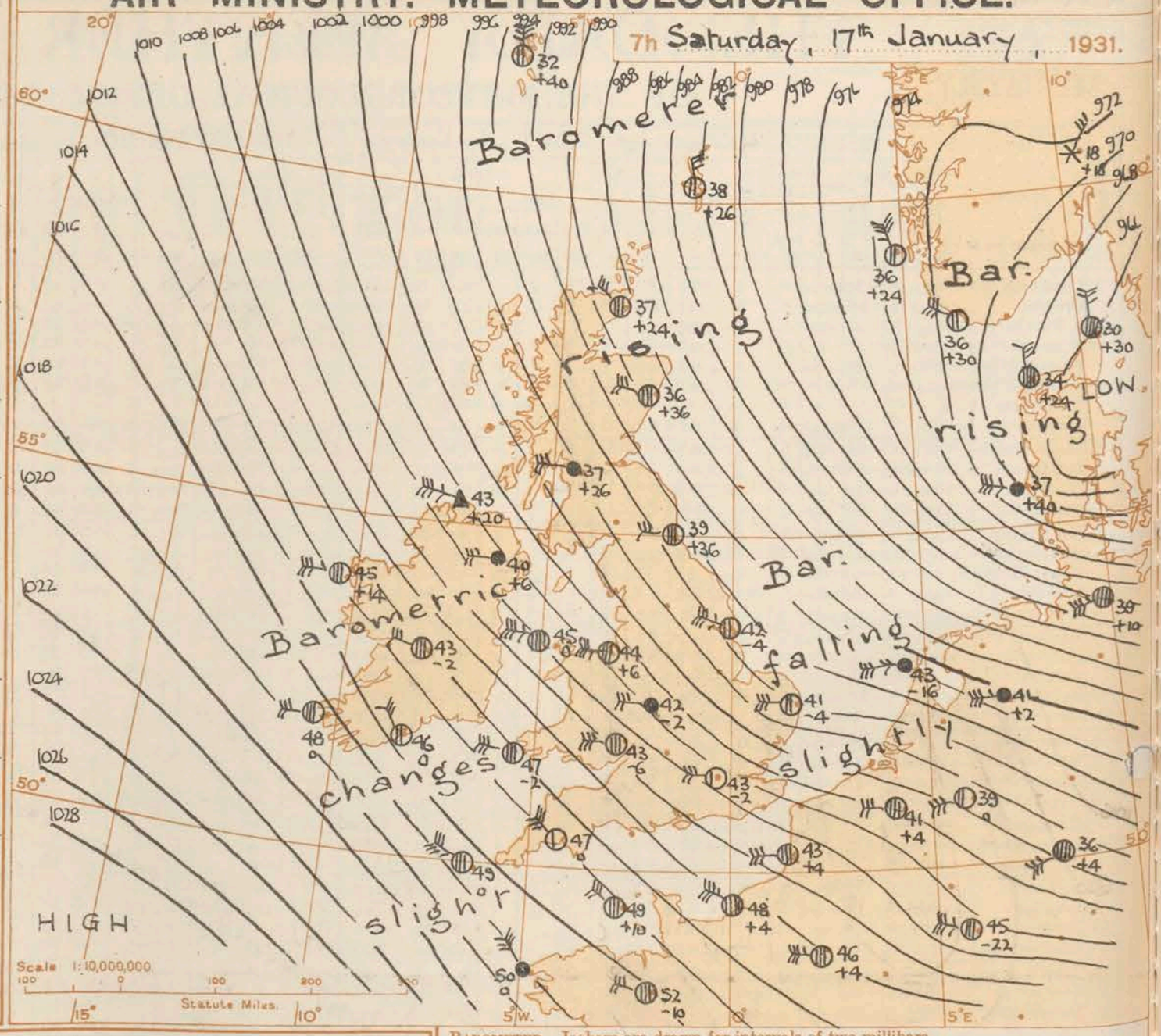
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 16th January 1931.

District	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.	odo	o	37	47	Tr.	Tr.	0.0
	Bournemouth	o	o	41	50	–	–	0.0
	Ventnor ...	pou	ou.	43	48	Tr.	–	0.0
	Southsea ...	o	o	42	49	–	–	0.0
	Bognor Regis	o	ocbc	41	48	0.3	–	0.0
	Littlehampton	c	c	38	47	Tr.	–	0.0
	Worthing ...	or.	o	40	48	–	Tr.	0.0
	Brighton ...	o	o	40	47	–	–	0.0
	Eastbourne†	o	o	44	48	–	–	0.0
	Hastings† ...	od.o	oco	42	48	0.2	0.2	0.0
	Folkestone ...	odm.	o	39	48	Tr.	Tr.	0.0
	Dover... ...	om.r.c	co	43	48	0.2	Tr.	0.0
	Deal	o	o	39	48	–	–	0.0
	Ramsgate ...	dc	c	38	49	0.2	0.4	0.0
	Margate ...	cd	bcc	39	49	0.5	Tr.	0.0
2	Southend ...	or.	o	38	48	0.4	0.1	0.0
	Maldon ...	roc	c	44	50	0.3	–	0.0
	Clacton-on-Sea	c	c	37	47	0.1	–	0.0
	Dovercourt ...	doc	doc	37	48	Tr.	Tr.	0.0
	Lowestoft ...	o	oidoc	37	49	–	Tr.	0.0
	Skegness ...	opro	o	40	51	1	–	0.0
	Mablethorpe	o	o	41	51	1	–	0.0
	Cleethorpes ...	o	oco	45	50	–	–	0.0
3	Leamington S.	c	c	43	53	–	–	0.2
4	Cheltenham†	c	cor.	44	50	–	Tr.	0.5
5	Bath	cir.	cir.	45	49	1	Tr.	0.0
	Weymouth ..	c	c	45	50	–	–	0.0
	Jersey ...	rc	dc	44	50	0.6	Tr.	0.0
	Torquay ...	o	oc	42	51	–	–	0.1
	Penzance ...	c	cr.md	47	51	–	0.3	0.0
	St. Ives ...	o	d	47	50	–	Tr.	0.0
	Bude	oed	oed	47	50	–	0.3	0.0
	Ilfracombe ...	o	odo	47	50	–	(Tr)	0.0
6	Aberystwyth	copwr	cp.r	44	47	2	1	0.0
7	Llandudno ...	o	rrq	46	51	1	2	0.0
	Colwyn Bay...	o	orod	46	52	1	2	0.0
	Rhyl	c	cpr	45	52	0.3	1	0.0
8	Wallasey ...	or.o	oir	43	51	1	1	0.0
	Southport‖ ...	od	ro	44	47	2	3	0.0
	Blackpool ...	oro	oro	45	47	2	3	0.0
	Morecambe ...	edror	rorror	43	48	6	7	0.0
9	Ilkley... ...	roro	r	44	48	1	7	0.0
10	Berwick-on-T.	or.	oc	44	53	Tr.	0.5	0.0
11	Dunbar ...	c	bc	45	51	–	Tr.	0.0
12	Douglas ...	cbqir	cqirc	46	51	0.5	1	0.0

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

AIR MINISTRY. METEOROLOGICAL OFFICE.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 17th Jan., 1931.

Districts.	Forecast
1. S.E. England ▼ 2. E. England... ▼ 3. E. Midlands 4. W. Midlands 5. S.W. England ▼ 6. South Wales ▼	Strong northwesterly winds, stronger at times at first, slowly moderating and tending to back; bright intervals with occasional showers at first, fair later; temperature lower than of late; frost tonight.
7. North Wales ▼ 8. N.W. England ▼ 9. N. Midlands 10. N.E. England ▼ 11. S.E. Scotland ▼ 12. S.W. Scotland & Isle of Man ▼ 13. A. W. Scotld. ▼ B. N.W. Scotland. ▼ 14. Mid-Scotland	Strong northwesterly winds, stronger at times at first, slowly moderating temporarily and backing later; bright intervals and occasional showers at first with hail or sleet locally; mainly fair later; rather cold; frost tonight.
15. N.E. Scotland ▼ 16. Orkneys and Shetlands. ▼	Strong northerly winds, stronger at times at first, slowly moderating and backing; hail or sleet showers at first mainly fair later; cold or rather cold; frost tonight.
17. N.W. Ireland ▼ 18. N.E. Ireland ▼ 19. S.E. Ireland ▼ 20. S.W. Ireland ▼	Fresh northwesterly to westerly winds, strong at times at first, moderating temporarily, then backing southerly and refreshening; fair at first, becoming less settled later; moderate temperature today, frost tonight, milder tomorrow.

GENERAL INFERENCE.

A ridge of relatively high pressure advancing from the west will cause bright intervals generally though with showers locally, especially at first, accompanied by hail or sleet in places. Another depression following the ridge will, however, affect the western seaboard before long.

FURTHER OUTLOOK.

Unsettled.

Times of issues of Gale Warnings.

▼ South Cone at 1405 on 15th, in 7,8,10,11,12, 13A, 13B, 15,16,17,18,19.

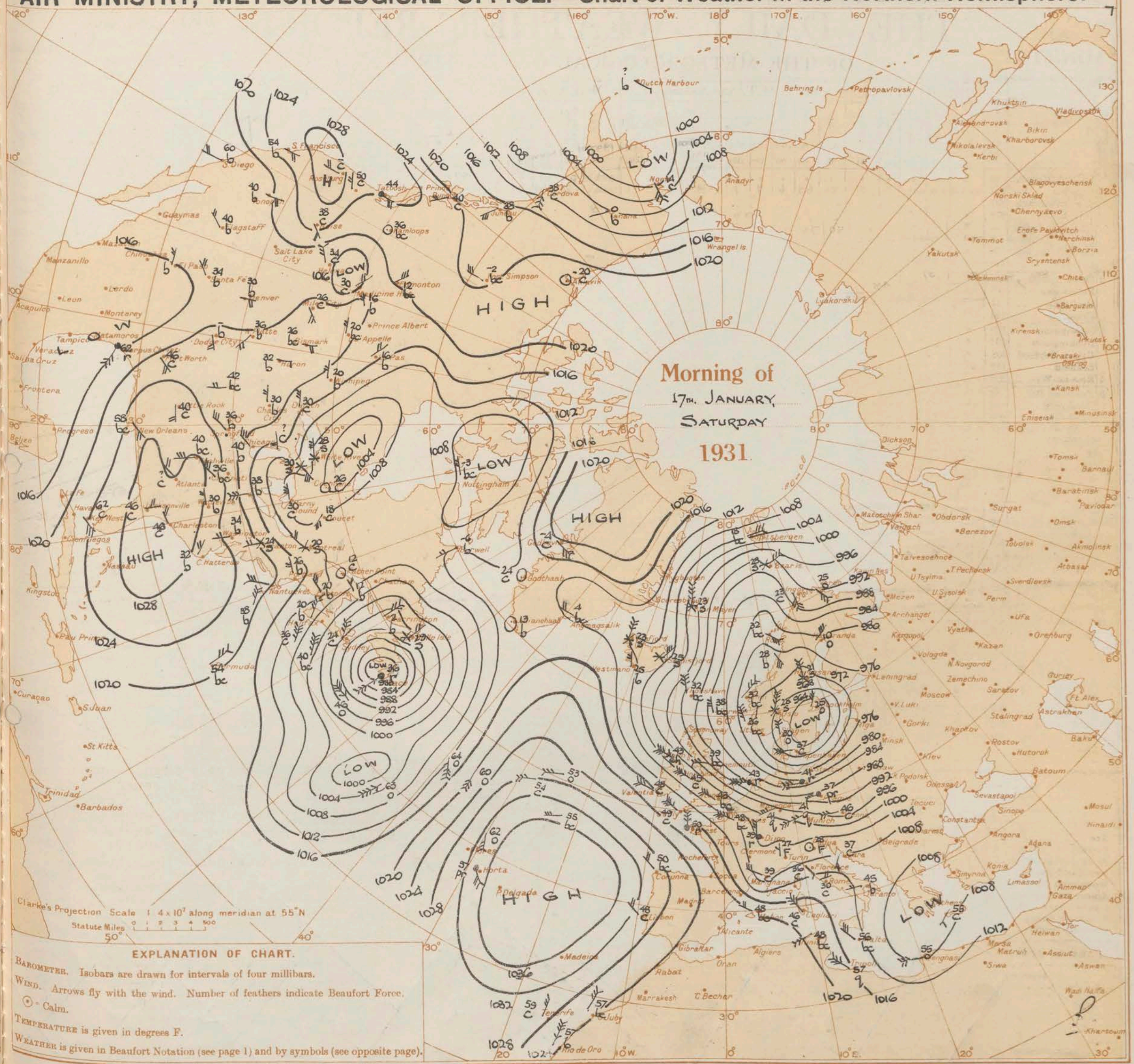
▼ South Cone at 1910 on 15th in 1,2,5,6,20.

Forecasts issued at 1005 G.M.T.

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

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

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



AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday 17th January 1931.

No. 26258

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0-12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0-10 (12)	Cloud Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1003·4	+4	WNW	7	q	51	65	6	7	7	-	4·6	7·8	2500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1004·7	-14	NW'W	7	q	50	75	8	5	-	-	2·3	2·3	2500
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1001·2	-8	WNW	6	c	51	75	7	5	-	-	9	9	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	994·0	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	~~997·4~~	-4	WNW	7	0	50	95	7	6	-	-	10	10	800
	Cranwell	240	998·7	+22	NW'W	6	b	42	65	7	-	-	-	0	0	-
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1006·5	-6	WNW	7	c	51	85	8	4	7	-	7·8	10	1500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	1013·9	0	W	7	c	50	95	7	5	-	-	9	9	4000
	Scilly (St. Mary's)	163	1014·9	-2	NW'W	8	dd	50	95	5	5	-	-	10	10	1500
	Guernsey	173	1012·4	-20	W	5	d₀d₀	50	95	6	6	-	-	10	10	~~4000~~ 1500
6	Pembroke	142	1009·5	+14	WNW	6	q	48	65	7	3	8	1	2·3	4·6	1500
7	Holyhead	26	1004·9	+10	NW'W	8	q	45	75	6	5	-	-	1	1	4000
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	993·1	+10	NWW	8	q	42	85	7	-	1	-	0	2·3	-
	Tynemouth	67	991·4	+6	W	4	bc	40	75	8	2	-	-	2·3	2·3	2500
11	Inchkeith	190	988·6	-12	W	8	pr	38	95	8	6	-	-	2·3	2·3	800
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	988·0	-22	WNW	7	bc	39	85	6	3	-	-	4·6	4·6	4000
15	Dalwhinnie	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	981·4	+10	NW	3	c	(37)	95	8	3	1	-	4·6	7·8	1500
16	Lerwick	54	978·5	+26	NW	4	psh	34	85	7	8	2	-	4·6	9	1500
17	Blacksod Point	10	1010·0	+4	WNW	8	q	45	65	7	8	-	-	4·6	4·6	800
18	Malin Head	51	999·0	0	WNW	8	phr	45	65	7	3	-	-	2·3	2·3	2500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1015·9	0	W	7	bc	47	95	7	3	-	-	2·3	2·3	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1003·6	0	W	5	q	44	55	8	7	9	2	Tr	4·6	2500	1	*
	Croydon	1004·1	-2	W'N	5	z	43	65	6	-	-	1	0	1	-	1	*
	S. Farnborough	1004·8	+4	W	4	bc	42	65	8	-	-	4	0	2·3	-	1	*
	Winchester	1005·9	0	WNW	6	bc	41	75	7	5	7	-	4·6	4·6	4000	1	*
	Boscombe Down	1006·6	+2	NW	5	bc	42	85	8	5	-	-	4·6	4·6	1500	1	*
	Calshot, (S'thmtn)	1006·3	+4	WNW	6	q	44	65	8	-	4	-	0	1	-	0	2
	Dungeness	*	*	SW	5	bc	*	*	7	5	-	*	2·3	2·3	4000	*	3
	Lympne	1002·6	~~+4~~	W	5	bc	41	65	7	5	-	-	2·3	2·3	4000	1	*
2	Shoeburyness	1000·8	-6	WNW	8	bc	42	65	8	-	-	5	0	2·3	-	0	*
	Felixstowe	998·6	-2	WNW	6	b	43	55	8	-	-	-	0	0	-	1	4
	Gorleston	994·2	-4	W'N	6	bc	41	75	7	8	-	-	2·3	2·3	4000	0	3
	Cranwell	996·6	-2	W	7	q	41	75	7	2	8	-	1	2·3	4000	1	*
3	Cardington	1001·7	-2	WNW	6	bc	42	65	8	4	3	1	1	2·3	1500	1	*
	Birmingham	1002·8	-2	WNW	5	pr	42	75	8	6	-	-	9+	9+	2500	1	*
	Upper Heyford	1003·1	-2	W	6	c/pr₀	42	65	8	5	-	6	4·6	7·8	800	1	*
	Leafield	1003·6	0	WNW	6	bc	40	65	8	6	-	8	4·6	4·6	4000	1	*
4	Ross-on-Wye	1005·6	-6	W'N	6	q	43	65	8	5	-	-	9+	9+	2500	1	*
5	Portland Bill	1008·1	+4	W'N	7	c	46	75	8	4	7	-	7·8	9	1500	1	4
	Plymouth	1011·5	0	NW	6	b	47	65	8	3	-	3	Tr	Tr	2500	1	3
	Falmouth	1014·0	-8	W'N	5	bc	47	85	8	7	-	-	4·6	4·6	4000	1	3
	Scilly (St. Mary's)	1015·2	0	NW	7	c	49	85	7	5	-	-	9+	9+	4000	1	5
	Guernsey	1012·3	+10	NW	5	c	49	65	7	5	-	-	?	10	2500	1	4
6	Pembroke	1008·9	-2	WNW	6	q	47	75	7	8	7	1	4·6	7·8	1500	1	4
7	Holyhead	1004·6	0	WNW	8	c/pr₀	45	75	6	5	-	-	9	9	1500	1	5
	Chester (Sealand)	1002·3	+6	W'N	7	c/pr	44	75	8	9	-	-	7·8	7·8	1500	1	*
8	L'pool (Bidston)	1000·0	0	W	8	q	43	75	8	5	-	-	7·8	7·8	2500	0	*
9	Harrogate	996·8	+14	SW	7	q	39	75	8	6	3	-	1	2·3	2500	1	*
10	Spurn Head	991·8	-4	NW'W	8	bc	42	95	7	-	2	-	0	4·6	-	0	6
	Tynemouth	992·3	+36	W	4	bc	39	75	7	2	-	-	2·3	2·3	2500	0	2
11	Inchkeith	992·8	+24	WSW	6	bc	39	95	8	-	7	-	0	4·6	-	0	3
	Leuchars	993·0	+34	NW	6	q	37	85	8	5	-	-	1	1	2500	1	*
12	Renfrew	997·1	+26	WNW	5	iR	37	95	6	3	-	-	10	10	1500	2	*
	Eskdalemuir	995·4	+14	NW	7	pso	37	75	7	6	-	-	10	10	450	1	*
13A	Tiree	998·3	+18	NWW	8	PHR	41	75	7	8	-	3	4·6	4·6	1500	0	5
13B	Stornoway	994·2	+38	NW	4	bc	37	85	7	3	-	-	4·6	4·6	4000	2	4
15	Dalwhinnie	994·1	+24	NNW	3	o	33	85	7	5	-	-	10	10	1500	7	*
	Aberdeen	990·0	+36	WNW	5	c/phrs	36	85	8	8	-	-	7·8	7·8	2500	1	2
	Wick	987·9	+24	NW	4	c	37	85	8	3	1	-	4·6	7·8	1500	1	3
16	Lerwick	981·1	-26	N'W	3	bc	38	85	7	8	-	-	4·6	4·6	1500	1	*
17	Blacksod Point	1011·3	+14	W	7	q	45	65	6	8	-	-	9	9	*	1	6
18	Malin Head	1001·9	+20	WNW	8	phr	43	75	7	9	-	-	4·6	4·6	2500	0	6
	Aldergrove	1003·5	+6	W	5	pr	40	75	7	9	-	-	4·6	4·6	800	1	*
	Donaghadee	1000·9	+4	WNW	5	q	41	75	7	5	-	-	1	1	1500	1	3
19	Birr Castle	1010·9	-2	WNW	4	c	43	75	8	3	-	-	7·8	7·8	2500	1	*
20	Valentia Obsy.†	1016·9	0	W'N	5	c.	48	65	8	8	-	-	9	9	1500	1	4
	Roches Point	1013·5	0	NW	4	bc	46	75	8	3	-	-	4·6	4·6	1500	0	3

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h-18h °F. (31)	Temperature Min. Night 18h-7h °F (32)	Min. on Grass °F. (33)	Rainfall Day 7h-18h mm. (34)	Rainfall Night 18h-7h mm. (35)	Sunshine 16h. Hrs. (36)
1	London (Kew)	49	43	38	0·2	-	0·0
	Croydon	49	43	37	1	Tr	0·0
	S. Farnborough	49	41	36	Tr	-	0·0
	Winchester	49	40	37	-	Tr	0·0
	Boscombe Down	49	40	38	-	0·2	
	Calshot, (S'thmtn)	50	43	38	-	0·1	0·0
	Dungeness	47	41	*	0·2	Tr	*
	Lympne	46	40	36	0·4	-	0·0
2	Shoeburyness	49	41	36	0·3	0·1	0·0
	Felixstowe	49	42	40	0·1	-	0·0
	Gorleston	50	40	37	-	0·1	0·0
	Cranwell	50	40	37	Tr	0·1	0·0
3	Cardington	51	42	39	-	0·1	0·0
	Birmingham	50	41	38	0·4	3	0·0
	Upper Heyford	52	41	37	Tr	Tr	
	Leafield	50	39	36	-	Tr	1·4
4	Ross-on-Wye	51	43	38	0·1	Tr	1·3
5	Portland Bill	50	45	*	-	0·2	*
	Plymouth	50	46	45	Tr	0·3	0·1
	Falmouth	50	47	*	0·1	1	0·4
	Scilly (St. Mary's)	50	48	*	0·2	1	0·7
	Guernsey	51	49	42	0·3	1	0·0
6	Pembroke	50	45	*	Tr	Tr	0·0
7	Holyhead	51	44	41	0·1	Tr	0·0
	Chester (Sealand)	52	42	40	1	3	0·1
8	L'pool (Bidston)	51	41	39	1	1	0·0
9	Harrogate	48	38	33	4	2	0·0
10	Spurn Head	50	37	*	-	0·6	0·0
	Tynemouth	52	39	33	-	1	*
11	Inchkeith	50	37	36	0·3	2	0·0
	Leuchars	53	33	32	0·5	7	1·6
12	Renfrew	50	37	34	11	4	0·0
	Eskdalemuir	49	34	33	10	5	0·0
13A	Tiree	49	39	36	7	1	0·1
13B	Stornoway	49	35	*	10	7	0·6
15	Dalwhinnie	46	31	*	14	8	0·0
	Aberdeen	52	34	32	2	6	2·5
	Wick	48	35	*	8	5	*
16	Lerwick	48	33	*	4	1	0·0
17	Blacksod Point	51	43	*	1	1	*
18	Malin Head	49	38	*	9	1	0·0
	Aldergrove	50	37	34	2	2	0·0
	Donaghadee	52	38	*	2	2	*
19	Birr Castle	52	42	39	1	Tr	0·0
20	Valentia Obsy.†	52	48	45	0·4	1	0·0
	Roches Point	52	45	*	0·1	Tr	*

LONDON OBSERVATIONS.

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

	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	c₀c m₀	cm₀	cm bcq y	49	43	38	0·2	-	0·0	*	*	7
Croydon	217	c f₀f₀ m₀	cm₀q	cf₀qcm₀	49	43	37	1	Tr	0·0	*	*	6
Greenwich (Royal Observatory)	149	c	cq	cdbbcq	50	42	32	-	Tr	0·0	87	67	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park)	27	*	*	*	53	43	34	-	-	0·0	80	63	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	0·0	*	*	*
Camden Square	110	0	0	*	51	42	37	-	-	*	*	76	*
Kensington Palace	80	opr₀	0	*	50	43	39	-	-	*	At 18h. 85	68	*
Hampstead Observatory	450	ormod	0	*	50	39	30	Tr	Tr	0·0	*	62	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 17th

South Kensington Max.	Time.	Min.	Time.
0·8	10h 16m	<0·3	23h 16m, 7h 16m, 17h

Kew Observatory Max.	Time.	Min.	Time.
0·2	11h 16m	<0·1	0-6h, 17h

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 16th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 17th January 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	SSW	3	o	48	1007·8	WNW	7	bc	48	48	46	Tr	Tr
Brussels	1007·4	WSW	5	o	46	999·4	W'N	5	c	41	46	39	1	5
Berlin	995·9	WSW	5	r₀r₀	39	978·6	W	5	ir₀	41	41	37	6	9
Zürich	1021·2	NW	3	c	39	1009·9	WSW	6	rr	37	41	34	-	2
Rome						1012·9	E	2	c	30		28		-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday 18th January 1931.

No. 25259

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

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0-12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0-10 (12)	Cloud Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)...	1003.7	-10	W'N	5	c	44	65	8	8	-	-	9	9	2500
	Croydon ...	1004.3	-2	WNW	5	zo	44	75	6	5	-	-	9	9	1500
	S. Farnborough	1004.8	+2	WNW	5	c	45	65	8	8	9	-	7-8	9	2500
	Winchester ...	1006.3	+2	NW	5	c/phr	42	85	8	8	-	1	4-6	7-8	2500
	Boscombe Down	1006.5	-2	WNW	7	q	44	75	8	8	3	1	4-6	4-6	2500
	Calshot, S'thmtn	1006.3	-4	NW	8	bc/pr	47	55	7	8	-	1	2-3	4-6	2500
	Dungeness ...	*	*	W	6	c/d	*	*	7	3	6	-	4-6	7-8	2500
	Lympne ...	1001.2	-12	WNW	5	c	43	75	7	8	3	-	9	9+	1500
2	Shoeburyness	1003.1	+12	WNW	6	pr	44	65	8	5	-	-	4-6	7-8	1500
	Felixstowe ...	999.6	0	NW	6	bc	44	65	8	5	-	-	4-6	4-6	4000
	Gorleston ...	996.8	+10	NW'W	6	bc	43	75	7	4	-	-	4-6	4-6	2500
	Cranwell ...	999.6	+10	NW'W	6	bc	43	65	6	1	-	-	4-6	4-6	2500
3	Cardington ...	1002.2	+4	WNW	6	bc/pr	41	75	8	8	6	-	1	2-3	2500
	Birmingham ...	1004.6	+10	NW	6	c	42	75	7	6	-	-	7-8	7-8	2500
	Upper Heyford	1004.7	+6	NW'W	6	c/phr	42	65	8	9	1	-	4-6	7-8	2500
	Leafield ...	1004.8	+4	NW'W	7	bc	41	65	9	8	8	9	2-3	4-6	2500
4	Ross-on-Wye ...	1007.2	+12	NW	6	pr	42	75	8	9	-	8	7-8	9	4000
5	Portland Bill...	1008.1	0	W'N	7	bc	49	65	8	8	-	-	4-6	4-6	2500
	Plymouth ...	1012.5	+2	NW	5	c	48	65	8	8	-	6	7-8	7-8	2500
	Falmouth ...	1014.2	-4	WNW	6	c	49	75	8	3	6	6	2-3	7-8	4000
	Scilly (St. Mary's)	1016.2	+4	NW	7	c	50	85	6	2	-	8	4-6	7-8	4000
	Guernsey ...	1012.4	-4	WNW	5	c	49	65	7	5	3	-	4-6	7-8	2500
6	Pembroke ...	1011.6	+4	WNW	5	c/pr	44	85	7	9	-	-	9+	9+	1500
7	Holyhead ...	1007.8	+18	NW'W	8	q	45	75	6	5	-	8	2-3	9+	1500
	Chester (Sealand)	1005.6	+16	WNW	7	c/pr	43	75	8	9	3	9	4-6	7-8	1500
8	L'pool (Bidston)	1003.9	+16	WNW	8	q	42	75	7	8	1	-	7-8	9+	1500
9	Harrogate ...	1000.8	+20	NNW	6	q	41	65	9	1	-	-	Tr.	Tr.	2500
10	Spurn Head ...	997.0	+10	NW'N	6	q	42	85	7	2	-	8	2-3	4-6	4000
	Tynemouth ...	999.0	+36	NW	4	bc	42	55	7	2	-	-	4-6	4-6	2500
11	Inchkeith ...	1000.4	+28	W	3	bc	42	65	8	5	1	-	2-3	4-6	5700
	Leuchars ...	999.8	+34	WNW	5	b	41	65	8	7	-	1	1	1	2500
12	Renfrew ...	1002.9	+28	NW'W	4	b	43	65	8	2	4	5	Tr.	1	2500
	Eskdalemuir ...	1000.9	+26	NW'N	6	b	39	75	8	1	-	-	Tr.	Tr.	2500
13A	Tiree ...	1006.6	+24	NWN	5	c/phr	41	75	8	8	2	8	4-6	9+	1500
13B	Stornoway ...	1002.1	+20	NNW	5	bc	40	75	8	3	4	-	4-6	4-6	4000
15	Dalwhinnie ...	1001.6	+30	NNW	4	bc	34	85	8	5	-	-	4-6	4-6	4000
	Aberdeen ...	996.6	+38	WNW	6	bc	40	65	8	8	-	-	2-3	2-3	2500
	Wick ...	995.9	+40	NW	4	bc	39	85	8	3	6	-	4-6	4-6	1500
16	Lerwick ...	990.9	+40	NNW	4	bc/ps	37	65	8	8	-	-	4-6	4-6	1500
17	Blacksod Point	1015.3	+14	WNW	6	q	46	65	7	-	3	-	0	10	-
18	Malin Head ...	1007.8	+26	NNW	6	e/por	43	75	7	8	-	8	2-3	7-8	2500
	Aldergrove ...	1008.1	+20	W'N	4	c	41	75	8	8	-	8	7-8	9	2500
	Donaghadee ...	1006.5	+20	WNW	5	q	41	85	7	5	2	-	4-6	4-6	1500
19	Birr Castle ...	1013.8	+16	NW	3	pr	43	85	6	9	-	-	9+	9+	2500
20	Valentia Obsy.	1018.5	+4	NW	6	cjp	49	75	8	5	-	-	9+	9+	1500
	Roches Point...	1015.8	+6	NW	4	bc	48	75	8	3	-	-	2-3	2-3	1500

OBSERVATIONS at 18h. G.M.T. 17th January — 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. 17th (37)	Weather 13h.–18h. 17th (38)	Weather 18h. 17th to 1h. 18th (39)	Weather 1h.–7h. 18th (40)
London (Kew)	1008.7	+34	NNW	3	b	42	65	7	5	-	-	1	1	1500	1	*	cr bc	cyb	b	bcc
Croydon	1008.4	+22	WNW	4	zo	42	65	6	4	-	5	4-6	7-8	1500	1	*	borroc	cprhbczo	bcbzo	bczo
S. Farnborough	1009.1	+34	WNW	4	bc	41	65	8	-	-	2	0	4-6	-	1	*	bccpo	cpbc	bcb	b, c
Winchester	1010.8	+22	NW	4	b	39	75	7	-	-	1	0	1	-	1	*	bcqcproRHq	cbcb	bbcc	c
Boscombe Down	1010.9	+26	NW	4	b	40	75	8	-	3	-	0	1	-	0	*	bcqcprqbcq	bcq b	bbc	bcc
Calshot, S'thmtn	1010.0	+26	NW'W	5	bc	42	65	8	8	-	1	1	2-3	2500	0	3	bbcQcpry	bccqybc	bw	bwc
Dungeness	*	*	W	6	bc	*	*	7	8	-	*	4-6	4-6	1500	*	3	bcdo	p	*	o
Lympne	1006.4	+54	NW'W	5	zo	40	75	6	-	-	-	0	0	-	1	*	bcc	cprqb	bmow	bmoc
Shoeburyness	1006.4	+16	NW	4	b	41	85	7	-	-	-	0	0	-	1	*	bcprq	bcprbq	bc	bc
Felixstowe	1004.8	+28	NW	4	bc	41	65	8	5	-	-	4-6	4-6	4000	1	4	bybcprq	bcq	bcb	c
Gorleston	1002.3	+30	NW'N	5	c	41	55	7	5	-	-	10	10	2500	0	2	bcq	bccq	cbcbq	bcqx
Cranwell	1005.9	+34	NW	5	bc	38	85	6	-	1	1	0	2-3	-	1	*	bcprqbcq	bczbcc	bbcmo	bcmoc
Cardington	1007.3	+30	NW	5	bc	41	75	8	2	-	6	Tr.	2-3	2500	1	*	bcpoPRq	bbcq	bcq	bcc
Birmingham	1009.0	+20	NW	5	bc	40	75	8	6	-	1	2-3	4-6	2500	1	*	cbcprh	prc	bcepr	coro
Upper Heyford	1009.1	+28	NW'W	5	c	40	75	8	5	-	8	2-3	7-8	2500	1	*	cRRhbcprhq	bcprbcq	bcq	bcc
Leafield	1009.5	+26	NW	5	bc	38	75	8	5	-	8	1	2-3	4000	1	*	bccprq bc	bcq	bbc	c
Ross-on-Wye	1010.7	+24	NW'W	3	bc	41	75	8	-	1	8	0	4-6	-	1	*	pqrsqbcq	cq bc	cbc	bcc
Portland Bill	1012.0	+20	NW	6	bc	46	75	8	4	4	-	2-3	4-6	2500	1	4	cPR bc	bcdo bc	bc	bcc
Plymouth	1014.9	+18	NW	5	pr	45	75	8	9	-	-	4-6	4-6	2500	1	2	bcqproc	cqprb	bcproo	o
Falmouth	1016.0	+14	WNW	5	c	49	65	8	8	3	-	4-6	7-8	4000	0	3	bccpoq	cbccq	cbc	bccir o
Scilly (St. Mary's)	1018.4	+16	NW	6	c	48	95	7	5	-	-	9+	9+	4000	0	4	c	c	cpo	cbcc
Guernsey	1013.3	+20	NW	4	bc	47	75	8	5	-	-	4-6	4-6	2500	1	4	bcpcq	cbc	bc	bccop
Pembroke	1013.2	+12	NW	5	bc	45	75	8	8	4	1	4-6	4-6	2500	1	3	cpq	cbcq	bcq	bcq
Holyhead	1011.9	+26	NW	6	c	44	75	7	5	-	8	2-3	9+	2500	1	4	porqcmo	c	cbcb,c,o	ocpro
Chester (Sealand)	1010.0	+24	NW'W	4	c/pr	41	95	8	8	-	-	7-8	7-8	2500	1	*	porcq	cpqo	prhq	bcc
L'pool (Bidston)	1009.2	+30	WNW	6	c/ph(r)	39	85	8	9	-	-	7-8	7-8	1500	1	*	cprQ	cqprh	bcqpr	oqhir
Harrogate	1005.8	+30	WSW	4	b	37	75	7	-	-	1	0	Tr.	-	1	*	bQ	bq	b	bbcc
Spurn Head	1002.9	+14	NW'N	5	bc	40	85	7	-	2	-	0	2-3	-	0	5	bcq	bc	bcc	bc
Tynemouth	1003.6	+28	NW	2	b	37	75	7	-	-	-	0	0	-	0	3	bc	bcb	bbc	bcc
Inchkeith	1004.8	+22	W	3	bc	39	75	8	5	1	-	2-3	4-6	1500	0	1	bc	bc	bc	bcc
Leuchars	1004.6	+30	WNW	4	bc	37	65	8	4	-	1	Tr.	2-3	4000	1	*	bq b	bcyb	bbc	bc
Renfrew	1007.1	+22	NW	4	c	38	85	7	-	-	8	0	7-8	-	1	*	crq bq	b, c	c	cbc
Eskdalemuir	1007.0	+34	NW	5	b	34	86	8	-	-	8	0	1	-	1	*	cpsocb	b bx	cx	cx
Tiree	1009.6	+28	NNW	5	c	42	65	8	5	2	8	2-3	10	2500	0	4	cPhr	cPhr	ciphr	coird
Stornoway	1006.6	+24	NW	5	bc/pr	37	85	7	3	-	-	4-6	4-6	4000	2	4	bcprh	cphrgbc	bcpso	c
Dalwhinnie	1005.0	+20	NNW	3	c	35	85	8	5	-	-	7-8	7-8	2500	8	*	is bc	bc	c	ips
Aberdeen	1001.8	+28	WNW	5	bc/ps	36	85	8	8	-	3	4-6	4-6	2500	1	2	bcqporsh	bcpos	cis	cpso
Wick	1000.5	+14	NW	4	bc	35	95	8	3	6	-	2-3	4-6	1500	1	3	cpr bc	bcPRS	cisrc	cph
Lerwick	996.3	+20	N'W	3	bc/ps	36	85	7	8	-	-	4-6	4-6	1500	6	*	bcps	bcps	bcpos	bcpso
Blacksod Point	1017.2	+14	WNW	6	cu	45	85	7	8	-	-	10	10	<150	1	5	cq	prqc	prqc	do
Malin Head	1011.0	+20	NW	6	c	45	65	7	8	-	7	2-3	10	2500	0	5	bccpor ⊕	cpo	cpr	oiroc
Aldergrove	1011.5	+18	W'S	3	c	38	75	7	5	1	7	2-3	10	5700	1	*	bcqporbcpo	c	ccir	ciro
Donaghadee	1010.4	+16	W	3	pr	40	85	7	6	-	-	7-8	7-8	1500	1	2	prbcq	bccpr	ciroc	cbc
Birr Castle	1016.4	+20	NNW	2	c	42	85	7	5	-	-	9+	9+	2500	1	*	cporpr	c	c	codd
Valentia Obsy.	1019.9	+10	NW	4	cjp	48	75	7	5	1	-	7-8	9+	2500	1	3	cpoc	cpor	cpoc	cirro
Roches Point	1017.2	+10	NW	4	c	46	85	8	3	-	-	7-8	7-8	1500	0	3	bcpobc	bcpoc	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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,
R, heavy rain. r_0, slight rain.
rr, continuous rain.

<. less than (for cloud height).

⊕, solar halo. ♁, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

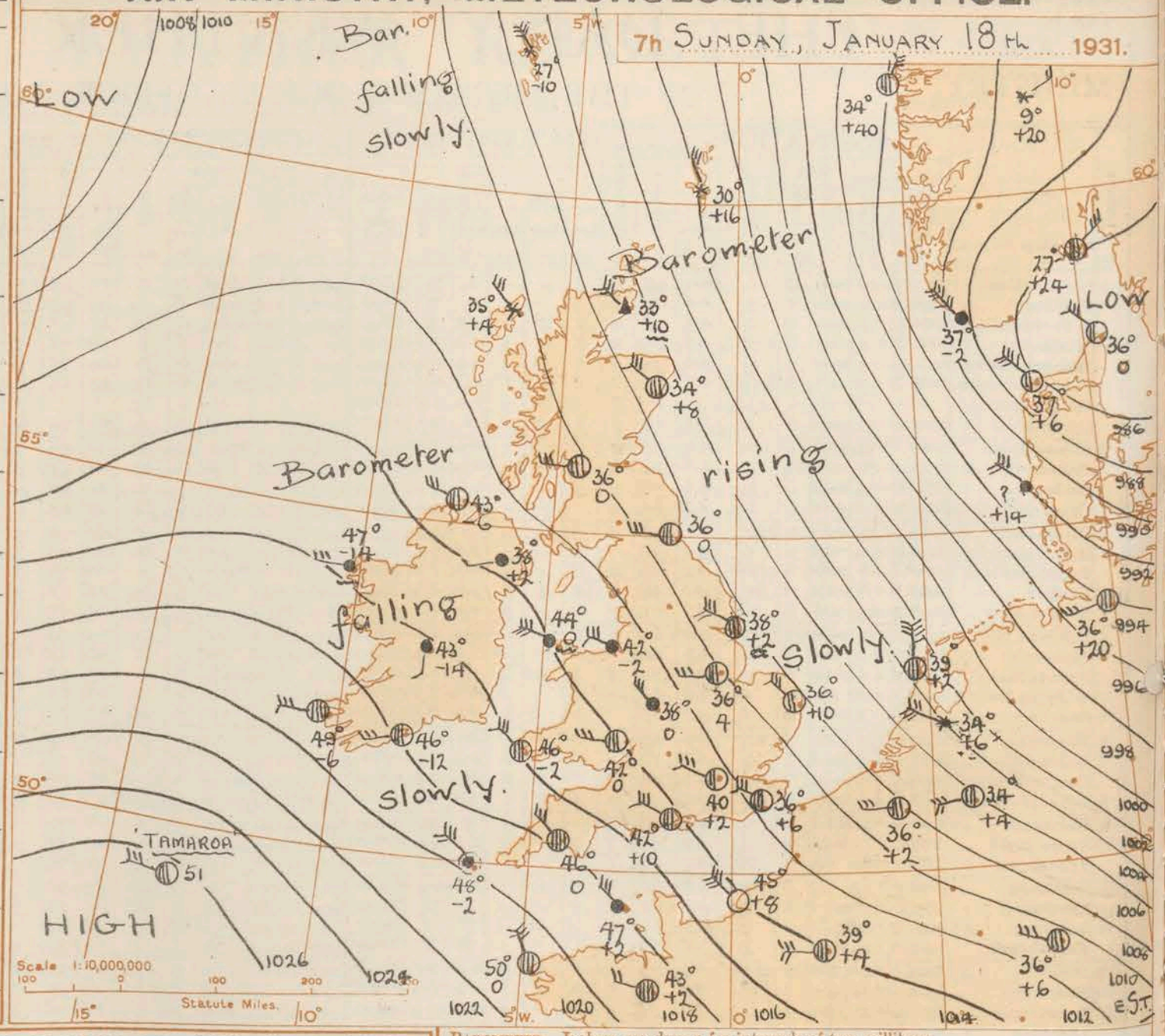
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 17th January 1931.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 16th to 9h. 17th.	Temperature. Max. 9h.—17th. 17th.	Rainfall. Night. 17h. 16th to 9h. 17th.	Rainfall. Day. 9h.—17th. 17th.	Sunshine. Sunrise to Sunset. 17th.
1	Tunbridge W.	orbc	copbc	40	44	Trace	4	1·9
	Bournemouth	bc	cbc	43	48	–	–	3.7
	Ventnor ...	bcz	bcb	42	48	–	–	4·3
	Southsea ...	bbc	bbc	44	48	–	–	4·2
	Bognor Regis	bc	prbcb	40	48	–	0·3	3.7
	Littlehampton	c	bcpbc	41	48	Trace	0.1	3.4
	Worthing ...	cbc	cbc	42	48	–	–	3·1
	Brighton ...	cbcr	cbpbc	43	48	–	Trace	2·8
	Eastbourne†	cbc	bcbc	43	51	–	–	3·3
	Hastings† ...	copcbc	bbcc	40	52	0·3	0·1	2·7
	Folkestone ...	bbc	bccr	40	46	–	Trace	3·9
	Dover... ...	byc	cbc	42	46	–	–	4·4
	Deal	bcbbc	bc	42	45	–	–	4·5
	Ramsgate ...	bbc	bc	42	45	–	–	4·5
	Margate ...	bc	bc	42	46	–	–	4.8
2	Southend ...	bmbc	bcp	41	45	Trace	Trace	3.4
	Maldon ...	bbccp	bbcc	42	45	–	0·3	3·6
	Clacton-on-Sea	bcc	bc	37	45	–	–	5.0
	Dovercourt ...	bc	pbc	41	45	–	Trace	3·4
	Lowestoft ...	bccpc	cbcc	39	42	1	Trace	3·9
	Skegness ...	ocb	bc	36	45	Trace	–	5.1
	Mablethorpe	bcbbc	bcv	41	43	Trace	–	5.0
	Cleethorpes ...	cb	bbc	40	44	Trace	–	4.7
3	Leamington S.	cp	cp	39	44	1	0·5	1·4
4	Cheltenham†	corbc	bcc	41	50	Trace	0·5	4.0
5	Bath	cbcp	bccb	43	46	0·3	Trace	3.0
	Weymouth ...	cpb	b	44	50	Trace	Trace	4·5
	Jersey ...	rcp	bcc	48	50	1	0·3	2·3
	Torquay ...	cq	bcpb	46	49	–	0.4	2·6
	Penzance ...	cb	b	47	51	1	–	3·3
	St. Ives ...	o	c	47	49	Trace	–	0.7
	Bude	qpc	qpc	44	50	0·1	1	2.0
	Ilfracombe ...	o	oc	46	48	1	–	0·2
6	Aberystwyth	cprq	phrq	?	45	0·3	0·5	0.6
7	Llandudno ...	c	c	43	45	1	–	0.7
	Colwyn Bay...	obco	bcp	43	44	3	–	0·2
	Rhyl	prcbccprbc		41	47	1	0·2	1·0
8	Wallasey ...	rsqbc	bcco	42	43	3	1	1·1
	Southport‖ ...	orcq	coc	39	45	1	1	2·2
	Blackpool ...	orqc	pc	36	44	5	1	3·3
	Morecambe ...	hrbbc	bcpbc	38	44	5	Trace	3·5
9	Ilkley... ...	bcir	b	37	44	13	Trace	4.7
10	Berwick-on-T.	bc	cbc	37	41	2	–	5·3
11	Dunbar ...	b	bc	35	41	2	–	3.4
12	Douglas ...	cbqir	cirhqb	40	43	0·3	2	2·3

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



Barometer. Isobars are drawn for intervals of two millibars.
Wind. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm = ⊙
Temperature is given in degrees F.
Weather Symbols :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◔ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. ⊤ Thunder. ⚡ Thunderstorm.
Sea Disturbance. ~ Rough. ≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 18th Jan. 1931.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Light to moderate westerly winds; mainly cloudy, slight rain or drizzle; mist locally; milder.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Light to moderate westerly wind, probably backing and freshening later; mainly cloudy, occasional slight rain; milder.
9. N. Midlands 10. N.E. England 11. S.E. Scotland	As 1 - 4.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland	As 5 - 8.
15. N.E. Scotland 16. Orkneys and Shetlands. 17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W Ireland	Moderate or fresh northwest winds, probably backing later; variable sky with snow or sleet showers at first, cloudy later with slight rain or drizzle; cold at first; temperature rising later.
	As 5 - 8.

GENERAL INFERENCE.

A wedge of high pressure westward of Ireland is decreasing in intensity and a depression is approaching Iceland from the Southwest. In western districts weather will be mainly cloudy with some light rain or drizzle, and these conditions are likely to spread slowly eastward.

FURTHER OUTLOOK.

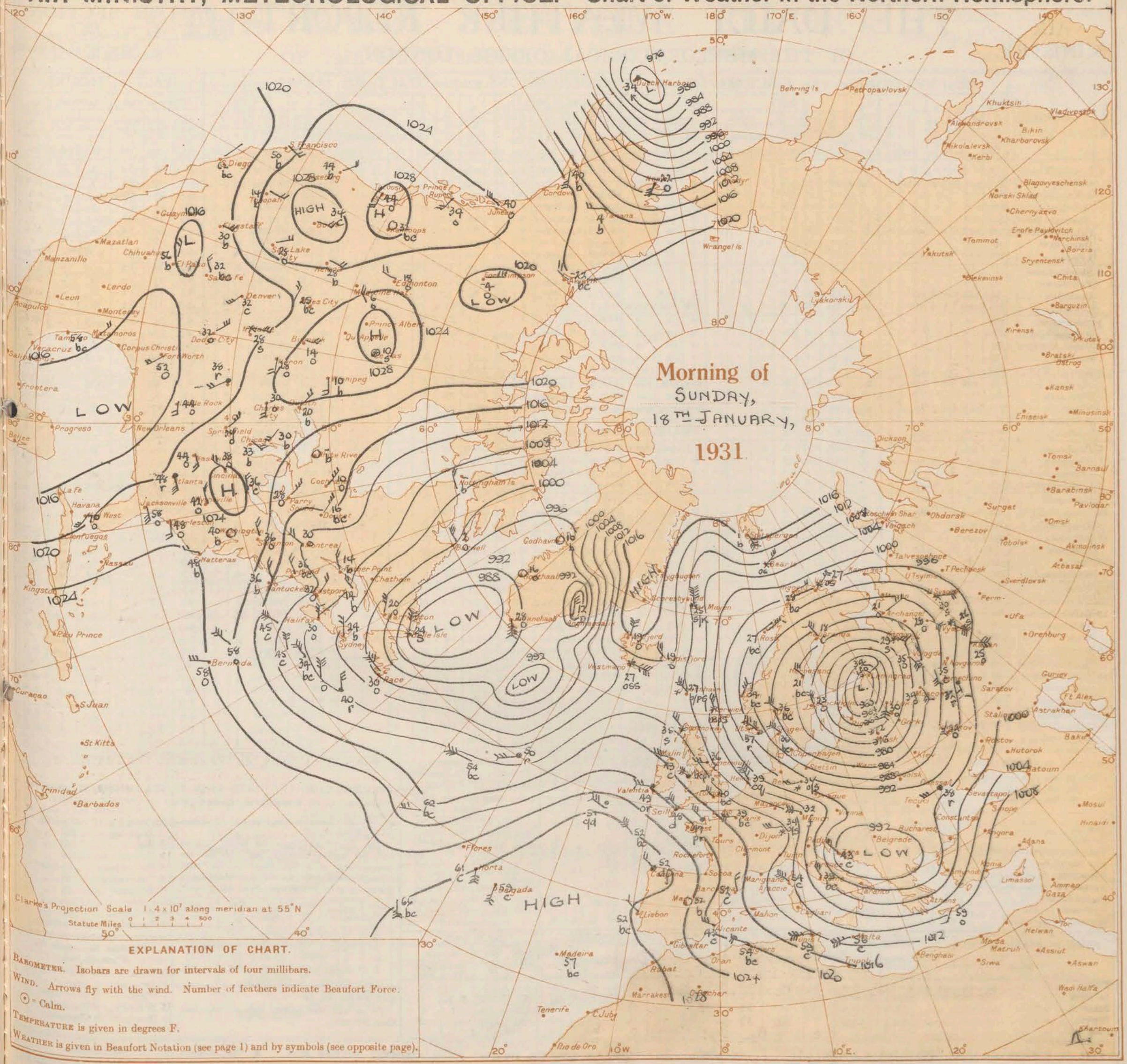
None issued.

Forecasts issued at 1130 G.M.T.

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

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

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



EXPLANATION OF CHART.

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, 18th January 1931.

No. 25259

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

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	1011.9	+8	W'N	3	bc	38	75	7	5	3	-	1	2-3	2500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1013.5	+10	WNW	4	b	39	75	7	-	-	-	0	0	-
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1010.4	+20	WNW	4	b	35	85	6	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1006.5	+16	NW'W	4	bc	36	85	7	-	1	-	0	2-3	-
	Cranwell ...	240	1009.7	+14	WNW	4	bc	36	85	6	5	-	-	2-3	2-3	4000
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1015.3	+8	WNW	5	bc	44	75	8	4	-	-	2-3	2-3	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1019.2	+8	WNW	3	bc	45	75	7	5	-	-	4-6	4-6	4000
	Scilly (St. Mary's)	163	1020.2	+6	NW'N	4	c	47	95	8	5	-	-	7-8	7-8	4000
	Guernsey ...	173	1017.1	+14	NNW	4	bc	45	65	8	5	-	-	4-6	4-6	1500
6	Pembroke ...	142	1016.1	+4	NW	5	q	45	75	8	8	7	-	2-3	4-6	4000
7	Holyhead ...	26	1013.7	+4	NW'W	6	c	44	75	7	-	2	-	0	10	-
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1006.5	+6	NW'N	6	c	38	95	7	-	2	-	0	7-8	-
	Tynemouth ...	67	1007.0	+14	WNW	3	c	36	75	7	2	-	-	7-8	7-8	2500
11	Inchkeith ...	190	1009.2	+20	W	3	bc	39	95	8	-	1	-	0	4-6	-
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1009.0	+12	NW	3	c	35	95	7	4	-	-	10	10	4000
15	Dalwhinnie ...	—	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1005.1	+12	NW	5	c	34	95	8	3	2	-	4-6	7-8	1500
16	Lerwick ...	54	998.5	+10	WNW	4	ps_0	32	85	7	8	-	-	4-6	4-6	1500
17	Blacksod Point	10	1017.3	+2	W	3	r_0r_0	46	75	7	6	-	-	10	10	450
18	Malin Head ...	51	1012.5	+2	NW	4	c/pr	43	85	7	9	2	-	4-6	10	1500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1020.6	-6	NW	2	o/pr	47	95	7	5	-	-	10	10	2500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 18th January

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)	1013.3	+10	W	3	c	40	75	7	5	1	-	9	9+	2500	1	*
Croydon	1013.0	+2	W'N	4	bc	40	75	6	5	2	-	2-3	4-6	2500	1	*
S. Farnborough	1013.5	+2	WNW	4	c	40	75	8	5	7	-	1	9+	5700	1	*
Winchester	1014.5	+4	WNW	3	c	39	85	8	5	-	-	10	10	4000	1	*
Boscombe Down	1014.6	+6	WNW	4	c	40	85	7	-	2	-	0	9+	-	0	*
Calshot, (S'thmtn)	1014.8	+10	WNW	4	c	42	75	7	5	3	-	4-6	7-8	2500	0	2
Dungeness	1011.8	*	SW	4	o	*	*	7	5	-	*	10	10	2500	*	2
Lympne	~~1010.4~~	+6	WNW	4	c	36	85	7	5	7	-	2-3	9+	2500	1	*
Shoeburyness	1011.5	+6	NW	3	c	39	85	7	5	-	-	7-8	7-8	4000	0	*
Felixstowe	1010.7	+22	NW	4	c	39	65	8	5	-	-	9	9	5700	1	3
Gorleston	1008.6	+10	NW	4	bc	36	75	7	-	1	4	0	4-6	-	0	2
Cranwell	1011.2	+4	W	3	c	36	85	7	-	7	-	0	9+	-	1	*
Cardington	1012.1	+4	W'N	3	c	37	85	7	5	3	8	7-8	10	2500	1	*
Birmingham	1013.2	0	NW	3	ir_0	38	95	8	6	-	-	10	10	2500	1	*
Upper Heyford	1013.2	+4	W'N	3	c	39	75	8	5	-	-	9+	9+	4000	1	*
Leafield	1013.1	+2	NW'W	3	c	38	85	8	5	-	-	9+	9+	4000	1	*
Ross-on-Wye	1014.0	0	W'N	3	c	42	75	8	-	2	-	0	9+	-	1	*
Portland Bill	1015.8	+4	WNW	5	c	45	75	8	4	-	-	10	10	2500	1	4
Plymouth	1018.1	0	NW	3	o	46	75	7	6	-	-	10	10	2500	1	1
Falmouth	1019.4	-2	W'N	4	c	47	75	8	5	3	-	4-6	7-8	4000	1	2
Scilly (St. Mary's)	1020.2	-2	NW'W	5	id_0	48	95	5	5	-	-	10	10	1500	0	3
Guernsey	1018.1	+2	NW	3	pr	47	75	7	6	-	-	10	10	1500	1	3
Pembroke	1005.9	-2	NW	4	c	46	85	8	4	6	-	7-8	9	2500	0	3
Holyhead	1013.8	0	NW'W	6	c/pr	44	85	8	5	2	-	2-3	10	1500	1	4
Chester (Sealand)	1012.8	-2	WNW	4	pr	42	85	8	6	-	-	9	9	2500	1	*
L'pool (Bidston)	1011.9	-4	WNW	5	o/r	42	75	7	5	-	-	10	10	1500	1	*
Harrogate	1010.1	0	W	3	c	36	85	9	-	1	-	0	9+	-	1	*
Spurn Head	1008.4	+2	NW'W	5	c	38	85	7	-	7	-	0	9	-	0	6
Tynemouth	1008.9	0	W	3	c	36	85	7	4	-	-	7-8	7-8	4000	0	2
Inchkeith	1009.3	+4	W	3	c	37	75	8	-	7	-	0	7-8	-	0	1
Leuchars	1009.4	0	WNW	4	bc	35	75	8	4	6	8	Tr.	4-6	4000	4	*
Renfrew	1011.2	0	W	3	c	36	75	8	8	-	8	2-3	7-8	4000	1	*
Eskdalemuir	1010.6	-2	NW	4	c	33	75	8	-	4	7	0	7-8	-	4	*
Tiree	1012.1	+2	NNW	4	~~PRS~~ PR	39	95	7	5	-	-	10	10	1500	1	6
Stornoway	1010.7	+4	NNW	3	s	35	85	6	3	-	-	10	10	4000	1	1
Dalwhinnie	1009.8	+2	NNW	2	ps	32	95	7	5	-	-	9	9	1500	8	
Aberdeen	1007.3	-8	NW	4	c	34	85	7	-	2	-	0	9	-	8	1
Wick	1006.4	+10	NW	5	ph(r)	33	95	8	3	2	-	4-6	7-8	1500	5	4
Lerwick	1002.5	+16	NNW	3	bc/ps	30	75	8	8	-	-	4-6	4-6	1500	7	*
Blacksod Point	1014.8	-14	W	3	d_0d_0	47	95	6	6	-	-	10	10	<150	1	4
Malin Head	1012.9	-6	WNW	3	c	43	75	7	6	2	-	2-3	10	2500	0	3
Aldergrove	1014.0	+2	W'S	1	ir_0	38	95	7	5	2	-	7-8	10	1500	1	*
Donaghadee	1013.0	0	WNW	2	bc	39	95	7	5	2	-	4-6	4-6	1500	0	1
Birr Castle	1016.3	-14	S	1	dd	43	95	6	6	-	-	10	10	2500	1	*
Valentia Obsy.†	1019.2	-6	W	4	o/r	49	95	6	5	-	-	10	10	800	1	3
Roches Point	1017.7	-12	W	3	c	46	95	8	5	-	-	9	9	1500	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 17th Hrs. (36)
London (Kew)	41	38	33	2	Tr.	2.3
Croydon	45	37	32	2	-	1.4
S. Farnborough	46	37	30	0.2	-	3.2
Winchester	46	36	32	1	-	3.7
Boscombe Down	45	34	31	0.1	-	*
Calshot, (S'thmtn)	47	37	31	Tr.	-	5.6
Dungeness	47	35	*	0.3	-	*
Lympne	44	35	31	0.4	-	3.6
Shoeburyness	45	36	32	0.1	-	3.5
Felixstowe	45	37	35	Tr.	-	2.2
Gorleston	43	35	32	-	-	0.0
Cranwell	43	35	32	Tr.	-	4.4
Cardington	43	36	34	0.3	-	4.6
Birmingham	42	36	33	1	1	1.5
Upper Heyford	43	37	34	4	-	*
Leafield	43	36	32	0.3	-	3.7
Ross-on-Wye	44	39	31	1	-	3.7
Portland Bill	49	43	*	0.5	-	*
Plymouth	49	42	40	0.2	Tr.	4.4
Falmouth	49	45	*	Tr.	0.1	3.5
Scilly (St. Mary's)	51	46	*	-	0.1	3.5
Guernsey	49	45	38	0.3	Tr.	2.1
Pembroke	48	44	*	Tr.	-	0.8
Holyhead	45	43	40	0.2	Tr.	1.9
Chester (Sealand)	44	39	37	0.6	1	0.4
L'pool (Bidston)	43	38	36	0.2	1	0.5
Harrogate	41	33	28	-	-	6.0
Spurn Head	44	37	*	-	-	4.6
Tynemouth	42	35	30	-	-	*
Inchkeith	43	36	34	-	-	4.1
Leuchars	41	34	29	-	-	5.9
Renfrew	43	35	32	2	-	4.7
Eskdalemuir	39	33	30	0.1	-	5.9
Tiree	43	38	36	1	1	0.1
Stornoway	41	33	*	1	1	2.5
Dalwhinnie	~~34 (35)~~	30	*	2	0.5	1.6
Aberdeen	40	32	30	0.2	3	5.0
Wick	40	32	*	1	1	*
Lerwick	39	28	*	1	0.4	2.2
Blacksod Point	46	44	*	2	0.6	*
Malin Head	45	41	*	0.1	1	0.0
Aldergrove	41	37	34	1	1	1.4
Donaghadee	43	37	*	3	1	*
Birr Castle	44	41	38	0.3	1	0.6
Valentia Obsy.†	49	45	43	Tr.	2	0.8
Roches Point	48	45	*	0.1	-	*

LONDON OBSERVATIONS.

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

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	crbc	cyb	bbcc	46	38	33	2	Tr.	2.3	•	•	6
Croydon	217	$borr_0c$	$cprhbcz_0$	$bcbz_0$	45	37	32	7	-	1.4	•	•	6
Greenwich (Royal Observatory)	149	bcq	bcp_0bc	bcwbx	45	37	28	Tr.	Tr.	2.1	63	78	4
City (Bunhill Row)	—	•	•	•	•	•	•	•	•	2.7	•	•	•
Westminster (St. James' Park)	27	•	•	•	47	38	33	Trace		2.4	51	76	•
Regents Pk. (Botanic Gardens)	168	•	•	•	•	•	•	•	•	•	•	•	•
Camden Square	110	cbcc	ccpc	•	45	37	32	0.3	-	•	•	81	•
Kensington Palace	80	bcoc	ocbcb	•	46	38	29	-	Tr.	•	At 18h. 66	76	•
Hampstead Observatory	450	bcor	bc	•	44	34	28	Tr.	Tr.	3.0	•	82	•

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	14h 17th	<0.3	0-7h 18th

Kew Observatory. Max.	Time.	Min.	Time.
0.2	19hrs 17th	<0.1	4-6hrs 18th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 17th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 18th January 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	1008.9	W	3	bc	43	1014.3	W	3	c	41	50	39	1	-
Brussels	1002.0	WNW	4	b	39	1008.2	W	3	c	36	43	37	0.2	-
Berlin	983.4	WNW	5	bc	36	993.0	W	2	o|s	34	39	30	1	?
Zürich	1007.1	SSE	3	bc	37	1012.6	W	3	c|s	34	43	30	4	5
Rome						1007.1	NNW	3	bc	39				

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

Objects not visible at

0 Dense fog 55 yards.
1 Thick fog 220 „
2 Fog 550 „
3 Moderate fog 1,100 „
4 Mist or haze 1½ miles.
5 Poor visibility 2½ „
6 Moderate „ 6¼ „
7 Good „ 12½ „
8 Very good „ 31 „
9 Excellent „ beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 19th January 1931.

No. 25260

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

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)...	1013.9	0	WNW	3	pr	42	85	5	9	5	8	4-6	10	1500
	Croydon ...	1013.8	-2	WNW	4	c/pr	43	75	6	5	2	-	7-8	10	2500
	S. Farnborough	1014.0	-2	W'N	4	iro	44	75	7	6	2	-	1	10	1500
	Winchester ...	1015.1	+2	WNW	4	c	43	75	8	5	2	-	4-6	10	2500
	Boscombe Down	1015.7	+2	WNW	4	iro	42	85	7	5	2	-	4-6	10	4000
	Calshot, S'thmtn	1015.3	+2	NW'W	5	c	45	65	8	4	2	-	4-6	10	2500
	Dungeness ...	*	*	W	4	c	*	*	7	5	2	-*	4-6	10	4000
	Lympne ...	1012.6	-6	WNW	4	iro	41	75	6	5	2	-	9	10	1500
2	Shoeburyness	1012.5	+10	WNW	4	iro	42	85	6	5	2	-	4-6	10	1500
	Felixstowe ...	1011.6	0	NW	4	c/r	42	75	8	5	1	-	7-8	9	2500
	Gorleston ...	1009.7	+2	NW	4	c	41	75	7	1	1	-	2-3	10	4000
	Cranwell ...	1012.2	+10	NW	5	c	41	75	6	1	1	-	1	10	2500
3	Cardington ...	1013.2	+6	NW	4	iro	40	85	7	6	2	-	4-6	10	800
	Birmingham ...	1014.6	+8	NW	3	roro	38	85	4	6	2	-	7-8	10	1500
	Upper Heyford	1014.5	+6	NW	5	roro	40	75	8	6	2	-	7-8	10	2500
	Leafield ...	1013.8	+10	WNW	4	c/r	42	75	8	6	2	-	4-6	10	1500
4	Ross-on-Wye ...	1014.9	+6	WNW	3	c	43	75	8	6	2	-	1	10	2500
5	Portland Bill...	1016.1	+2	WNW	4	c	47	85	7	4	7	-	7-8	10	2500
	Plymouth ...	1018.0	-6	W	3	ido	47	95	6	5	-	-	10	10	450
	Falmouth ...	1019.2	-6	W'N	4	c/d.	50	95	7	6	1	-	7-8	9	1500
	Scilly (St. Mary's)	1019.9	-2	NW'W	6	c	49	95	6	5	-	-	9+	9+	4000
	Guernsey ...	1018.5	-4	WNW	3	ido	49	75	7	6	-	-	10	10	1500
6	Pembroke ...	1016.3	-10	WSW	3	df	48	95	3	5	-	-	10	10	<150
7	Holyhead ...	1014.6	-6	-	0	dodo	41	95	6	6	1	-	9	10	450
	Chester (Sealand)	1014.4	+6	NNW	5	iro	41	85	7	6	2	-	7-8	10	2500
8	L'pool (Bidston)	1014.1	+6	NW	3	o/r	39	85	8	6	-	-	10	10	2500
9	Harrogate ...	1012.0	+6	W'S	3	c	39	65	9	-	*	-	0	10	-
10	Spurn Head ...	1009.7	0	NNW	5	c	40	75	7	3	2	-	4-6	10	4000
	Tynemouth ...	1011.8	+12	NNW	2	o	37	85	6	6	-	-	10	10	1500
11	Inchkeith ...	1010.9	+6	W	3	c	38	75	7	-	2	-	0	10	-
	Leuchars ...	1011.4	+10	NW	1	iso	36	75	7	5	2	-	9+	10	4000
12	Renfrew ...	1012.1	-6	W	2	iro	37	95	6	6	2	-	1	10	2500
	Eskdalemuir ...	1012.0	+4	NW	4	soso	34	85	8	5	-	-	10	10	1500
13A	Tiree ...	1010.4	-20	ESE	3	dodo	37	95	6	5	-	-	10	10	800
13B	Stornoway ...	1010.4	-6	-	0	ss	33	95	5	6	-	-	10	10	4000
15	Dalwhinnie ...	1011.4	0	NNW	2	SS	31	95	5	5	-	-	10	10	800
	Aberdeen ...	1009.6	+4	WNW	2	c	34	75	7	6	2	-	2-3	9	2500
	Wick ...	1008.8	+4	NW	4	c	33	95	7	9	2	-	7-8	9	1500
16	Lerwick ...	1003.6	0	WNW	3	c/pso	35	75	8	8	-	-	9	9	1500
17	Blacksod Point	1014.1	0	W	5	DD	49	95	7	6	-	-	10	10	<150
18	Malin Head ...	1009.5	-30	S	3	dd	40	95	5	6	-	-	10	10	800
	Aldergrove ...	1012.3	-22	S'E	3	dd	39	95	5	6	-	-	10	10	800
	Donaghadee ...	1012.8	-8	W	1	ido	39	95	7	5	-	-	9+	9+	800
19	Birr Castle ...	1015.3	-6	W	3	o	49	95	7	6	-	-	10	10	2500
20	Valentia Obsy.	1020.1	-2	W	4	id	49	95	6	5	2	-	7-8	9+	450
	Roches Point...	1017.2	-6	NW	4	c	51	95	8	5	-	-	9	9	1500

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

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)...	1016.0	+10	WSW	2	o	40	85	5	5	-	-	10	10	1500	1	*
	Croydon ...	1015.7	+14	W	3	roro	40	85	5	5	2	-	4-6	10	2500	1	*
	S. Farnborough	1015.6	+14	-	0	ido	40	85	6	6	-	-	10	10	1500	1	*
	Winchester ...	1015.8	+6	W	1	dodo	41	95	6	6	-	-	10	10	450	1	*
	Boscombe Down	1015.9	+6	SSW	1	dodo	42	95	5	6	-	-	10	10	800	1	*
	Calshot, S'thmtn	1015.9	+4	W'S	2	dodo	43	95	6	5	-	-	10	10	800	1	1
	Dungeness ...	*	*	NW	3	o	*	*	7	5	-	*	10	10	4000	*	2
	Lympne ...	1015.0	+10	WNW	3	o/r	39	75	6	5	-	-	10	10	2500	1	*
2	Shoeburyness	1015.3	+30	WNW	2	c	39	75	7	5	2	-	2-3	7-8	4000	1	*
	Felixstowe ...	1014.4	+20	NNW	3	c	39	75	8	-	3	1	0	9	-	1	2
	Gorleston ...	1013.1	+18	W'N	2	bc	37	85	6	6	-	-	4-6	4-6	1500	1	2
	Cranwell ...	1014.7	+16	NW	3	c/r	36	85	6	6	2	-	4-6	10	2500	1	
3	Cardington ...	1015.0	+10	WNW	2	o	39	85	7	5	-	-	10	10	1500	1	*
	Birmingham ...	1014.9	+2	-	0	dodo	36	95	4	6	-	-	10	10	800	1	*
	Upper Heyford	1015.6	+6	N	1	dodo	37	95	6	6	-	-	10	10	800	1	*
	Leafield ...	1015.1	+2	-	0	dodo	37	95	5	6	-	-	10	10	1500	1	*
4	Ross-on-Wye ...	1014.6	0	N	1	ido	41	95	5	5	-	-	10	10	800	1	
5	Portland Bill...	1015.5	-2	WSW	5	roro	48	95	6	5	-	-	10	10	1500	1	3
	Plymouth ...	1018.0	+10	WNW	4	ido	50	95	6	6	-	-	9+	9+	800	1	2
	Falmouth ...	1019.5	+2	W'N	4	dodo	48	95	6	5	3	-	4-6	7-8	1500	1	2
	Scilly (St. Mary's)	1020.0	+6	NW'W	7	ido	48	95	6	6	-	-	9+	9+	2500	1	4
	Guernsey ...	1018.3	+6	NW	4	o/d	50	87	8	5	-	-	10	10	1500	1	4
6	Pembroke ...	1015.6	+4	W	3	q	49	95	7	8	7	-	7-8	9+	1500	1	2
7	Holyhead ...	1012.6	-4	W'N	4	c/r	47	95	6	5	-	-	9+	9+	1500	1	3
	Chester (Sealand)	1014.0	-2	SE'S	2	dd	39	95	4	6	-	-	10	10	800	1	*
8	L'pool (Bidston)	1013.4	0	ESE	3	dm	38	95	4	5	-	-	10	10	1500	1	*
9	Harrogate ...	1013.5	+10	-	0	roro	34	95	5	6	-	-	10	10	2500	1	*
10	Spurn Head ...	1012.9	+10	NNW	4	roro	36	95	7	6	-	-	10	10	2500	0	6
	Tynemouth ...	1012.3	+8	NNW	1	iso	33	95	5	6	-	-	10	10	1500	3	3
11	Inchkeith ...	1011.3	-2	SW	2	ss	33	95	4	6	-	-	10	10	800	7	1
	Leuchars ...	1011.6	-2	SW	1	soso	31	95	4	6	-	-	10	10	800	7	*
12	Renfrew ...	1011.2	-10	SSE	1	DD	35	95	5	6	-	-	10	10	800	1	*
	Eskdalemuir ...	1012.0	-6	S'W	2	soso	32	95	6	6	-	-	10	10	450	8	*
13A	Tiree ...	1006.1	-32	SE'S	4	doro	41	95	6	5	-	-	10	10	800	1	3
13B	Stornoway ...	1007.3	-12	SE	3	ss	34	95	6	6	-	-	10	10	4000	7	2
15	Dalwhinnie ...	1010.6	-6	N	1	F	28	95	3	-	-	-	10	10	<150	8	*
	Aberdeen ...	1010.0	-2	WSW	3	iso	32	95	6	6	2	-	4-6	9+	2500	7	1
	Wick ...	1007.7	-6	WSW	3	c	37	95	8	9	2	-	4-6	10	1500	6	3
16	Lerwick ...	1003.8	0	NW	1	c	36	85	7	5	1	-	4-6	7-8	1500	3	*
17	Blacksod Point	1013.7	-2	WSW	5	id	49	95	6	6	-	-	10	10	<150	1	5
18	Malin Head ...	1008.4	0	W	4	id	47	95	5	6	-	-	10	10	800	1	3
	Aldergrove ...	1010.6	-4	W'S	4	c/d	46	95	7	5	2	-	9	10	800	1	*
	Donaghadee ...	1010.3	-8	W	1	dd	43	95	5	5	-	-	10	10	800	1	0
19	Birr Castle ...	1015.2	+2	W	2	ido	48	95	7	5	-	-	10	10	1500	1	*
20	Valentia Obsy.	1019.7	-2	W	4	iro	48	95	6	5	2	-	9	10	800	1	3
	Roches Point...	1018.0	+12	NW	3	bc	48	85	8	5	-	-	4-6	4-6	2500	0	3

PAST 24 HOURS. — WEATHER.

District	Stations	7h.–13h. 18th (37)	13h.–18h. 18th (38)	18h. 18th to 1h. 19th (39)	1h.–7h. 19th (40)
1	London (Kew)...	czocpromo	cromomo	omddomr	omdod
	Croydon ...	cprocprozo	czororo	cmororo	omroc
	S. Farnborough	cciro	cirodo	oddido	oido
	Winchester ...	c	cododomo	oddffmo	cmoc
	Boscombe Down	cpro	cirododomo	oddomo	c
	Calshot, S'thmtn	c	cproiddodo	ododmoc	c
	Dungeness ...	o	o	*	d
	Lympne ...	cromo	ocromo	omo	ododm
2	Shoeburyness	coro	oc	coiro	oiro
	Felixstowe ...	cro	bcc	c	cro
	Gorleston ...	bccq	cooprc	bcoiro	oirorr
	Cranwell ...	ccmo	c2oro	cmodo	ciro
3	Cardington ...	cproiro	ciroc	c	crro
	Birmingham ...	ororom	ododom	ofdoddo	omro
	Upper Heyford	croqroro	crorododo	oddororo	ocrodo
	Leafield ...	cro	cro	oddoc	cir
4	Ross-on-Wye ...	cpoc	ccodo	dooc	c
5	Portland Bill...	c	cororo2o	c	c
	Plymouth ...	comoido	omoidoc	cmo	o, c
	Falmouth ...	cidomo	cmod	cidmodbc	cidbc
	Scilly (St. Mary's)	omdcd	cid	cid	cpoid
	Guernsey ...	opido	oidoo	cidoo	oidoo
6	Pembroke ...	oidff	opoqc	cq	cq
7	Holyhead ...	iro	ddro	ridomot	iromoc
	Chester (Sealand)	ciroq	iroddm	oddmro	irroq
8	L'pool (Bidston)	upcro	idr dd	oddcm	iddo
9	Harrogate ...	c	cosoro	ors	oc
10	Spurn Head ...	o	coro	ororsro	cirq
	Tynemouth ...	coso	osoSo	osoSm	oiroq
11	Inchkeith ...	co	orss	oss	ocbc
	Leuchars ...	bqcrcso	cososom	ososom	cb
12	Renfrew ...	bcciro	iroororo	Droro	roCbc
	Eskdalemuir ...	or soso	osoSo	osodom	ododmobc
13A	Tiree ...	odDrirsd	oDrirsdro	oDrRhdd	dodoc
13B	Stornoway ...	oss	oss	orrdd	cpd
15	Dalwhinnie ...	soSom	soSof	ssof	c
	Aberdeen ...	cisc	ciso	ossmo	osrsd
	Wick ...	cphcpshc	cpsoc	cssc	cssro
16	Lerwick ...	bccpso	c	c	c
17	Blacksod Point	id	idq	dd	dd
18	Malin Head ...	cddmomo	oidmomo	ododmmm	oDDmm
	Aldergrove ...	crororoddmo	oddoiro	coir	oiroo
	Donaghadee ...	cido	oddmo	oddmo	oidoc
19	Birr Castle ...	oddo	oido	oido	oido
20	Valentia Obsy.	cirocid	cidciro	ciroororo	orodd
	Roches Point...	c	cbc	bccw	cw

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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

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

<, less than (for cloud height).

⊕, solar halo. ⊕, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

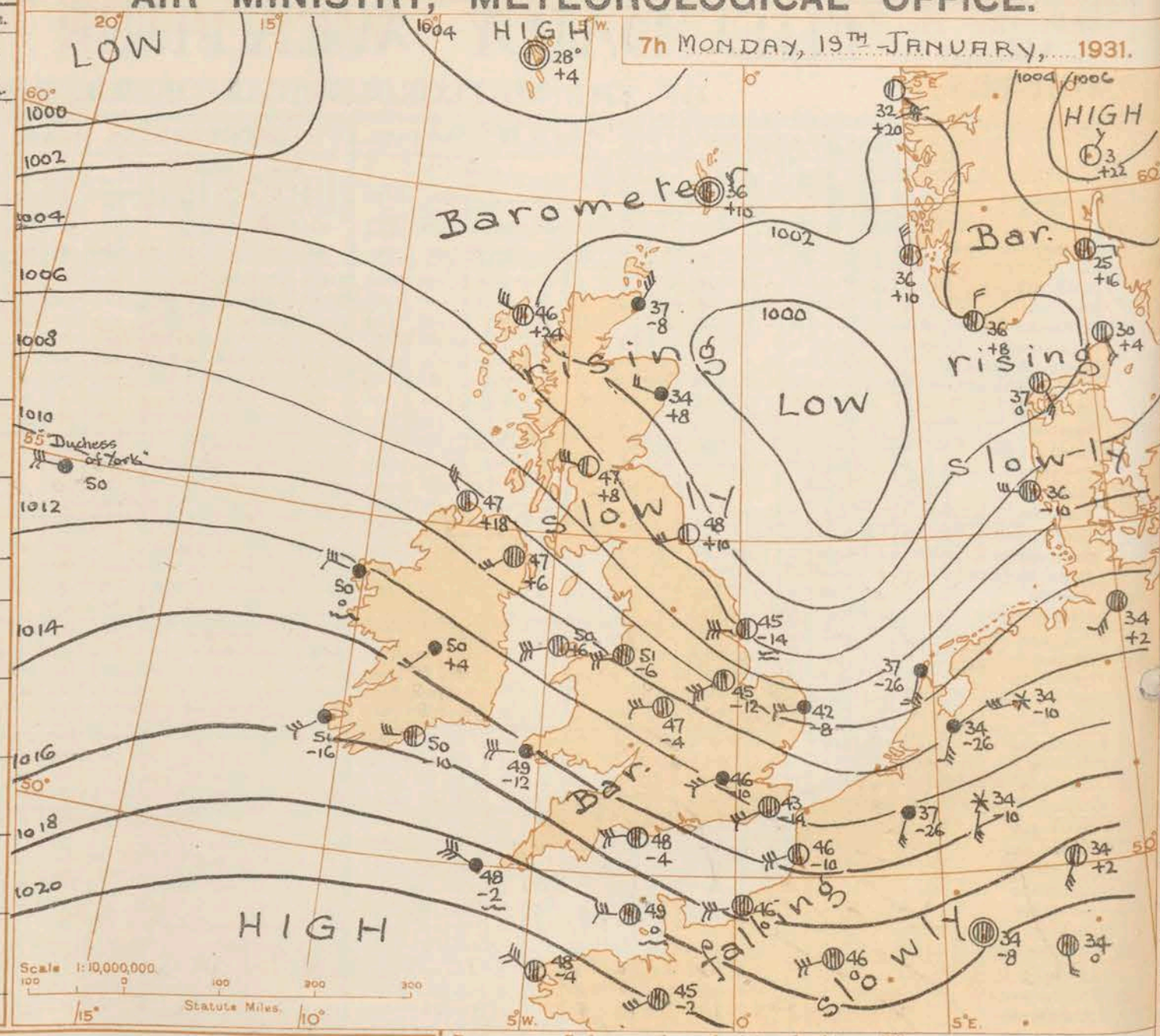
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 18th January 1931.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 17th to 9h. 18th	Temperature. Max. 9h.—17h. 18th	Rainfall. Night. 17h. 17th to 9h. 18th	Rainfall. Day. 9h.—17h. 18th	Sunshine. Sunrise to Sunset. 18th
1	Tunbridge W.	opo	o	36	43	—	Trace	0.0
	Bournemouth	o	om	39	46	—	—	0.0
	Ventnor ...	cou	ouod	38	46	—	Trace	0.0
	Southsea ...	o	o	39	46	—	—	0.0
	Bognor Regis	o oc	cbc	37	45	—	—	0.0
	Littlehampton	c	co	36	45	Trace	—	0.0
	Worthing ...	co	o	37	45	—	—	0.1
	Brighton ...	c	co	38	45	—	—	0.0
	Eastbourne†	oco	o	37	44	—	—	0.0
	Hastings† ...	coc	co	35	44	—	—	0.0
	Folkestone ...	om$_0$	or$_0$	37	43	—	Trace	0.0
	Dover... ...	cooir	co	40	44	—	Trace	0.0
	Deal	ccd	d$_0$o	37	43	—	Trace	0.0
	Ramsgate ...	c	c	37	42	—	—	0.0
	Margate ...	bc	brc	39	43	—	0.2	0.0
2	Southend ...	ocr$_0$	or$_0$c	37	42	—	Trace	0.0
	Maldon ...	oc	cir$_0$	38	42	—	0.3	0.0
	Clacton-on-Sea	bccpc	cpc	37	41	—	0.4	0.0
	Dovercourt ...	oc	bcc	37	43	—	—	0.1
	Lowestoft ...	cbc	cprc	35	40	—	0.1	0.0
	Skegness ...	o	o	35	41	—	—	0.0
	Mablethorpe	om$_0$	or$_0$	36	41	—	Trace	0.0
	Cleethorpes ...	o	or$_0$	36	41	—	Trace	0.0
3	Leamington S.	oro	o	34	41	0.5	—	0.0
4	Cheltenham†	coc	cod$_0$	37	44	—	Trace	0.0
5	Bath	cir$_0$	cdm	39	45	—	0.3	0.0
	Weymouth ...	c	ofd	40	48	—	0.5	0.0
	Jersey ...	cr	c	45	50	—	0.1	0.1
	Torquay ...	dpc	copcc	40	51	Trace	Trace	0.2
	Penzance ...	cmd	crpd	46	52	0.3	0.5	0.0
	St. Ives ...	d	d	47	49	Trace	Trace	0.0
	Bude	od	od	44	50	—	1	0.0
	Ilfracombe ...	o	omd	45	50	—	0.3	0.0
6	Aberystwyth	c	comr	42	45	—	1	0.0
7	Llandudno ...	cor$_0$	id$_0$m$_0$	43	44	Trace	1	0.0
	Colwyn Bay...	o	odd	41	43	1	1	0.0
	Rhyl	oid$_0$	omd$_0$	40	45	—	1	0.0
8	Wallasey ...	coir	oir	38	42	1	1	0.0
	Southport‖ ...	oro	oror	40	43	1	1	0.0
	Blackpool ...	co	od	39	42	1	0.4	0.0
	Morecambe ...	cdpc	cdco	39	42	Trace	Trace	0.0
9	Ilkley... ...	cbc	d$_0$	35	39	Trace	Trace	0.0
10	Berwick-on-T.	o	osos	35	40	—	0.4	0.0
11	Dunbar ...	c	cs	36	38	—	1	0.0
12	Douglas ...	cr$_0$c	od$_0$p$_0$m$_0$	37	41	3	2	0.0

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



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 5/10 clouded. ◐ Sky 5/10 to 8/10 clouded. ◐ Sky 9/10 to 10/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. K Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 19th Jan., 1931.

Districts.	Forecasts
1. S.E. England 2. E. England... 3. E. Midlands	Westerly winds, moderate or fresh, mainly cloudy, some light rain or drizzle; mild.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind westerly, backing temporarily, moderate or fresh, stronger at times locally, mainly cloudy, some light rain or drizzle; mild.
9. N. Midlands 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.	As 4 - 8.
14. Mid-Scotland	As 1 - 3.
15. N.E. Scotland 16. Orkneys and Shetlands.	Light variable winds, cloudy, showers; some mist; moderate temperature or rather mild.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 4 - 8.

GENERAL INFERENCE.

Areas of low pressure south of Iceland and over the North Sea are drifting slowly eastward and there are indications of a low pressure trough west of Ireland. Weather will be mainly mild and cloudy with occasional rain or drizzle in most districts.

FURTHER OUTLOOK.

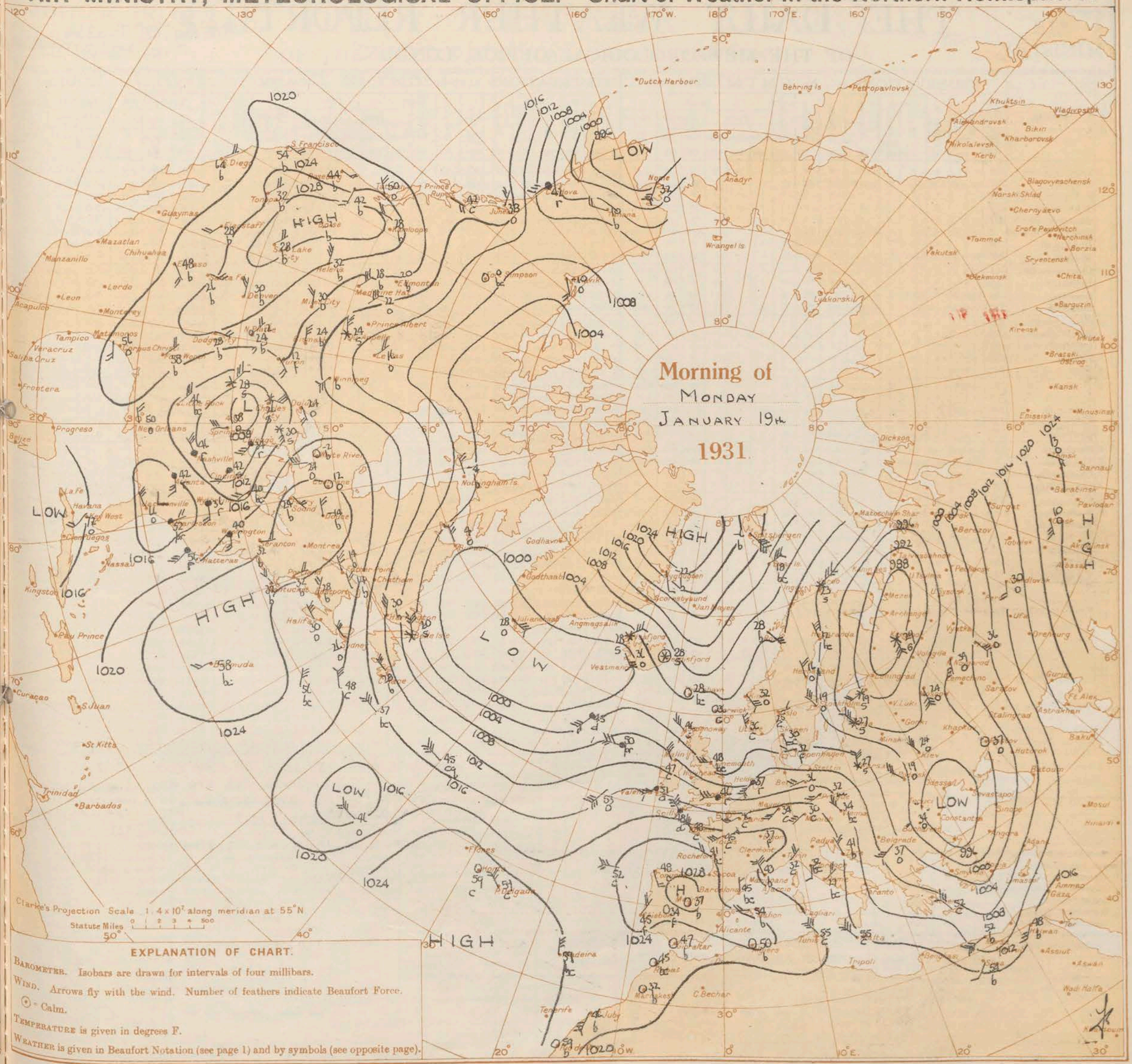
Unsettled, mild.

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.



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

Page 4.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday, 19th January 1931.

No. 25260

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0-12 (4)	Weather (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud Form Low (9)	Cloud Form Med (10)	Cloud Form High (11)	Cloud Amount Low 0-10 (12)	Cloud Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)...	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon ...	217	1014.8	-8	S'W	5	o/r	39	95	6	5	-	-	10	10	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1015.6	0	W	4	bc	47	85	7	5	-	-	4-6	4-6	4000
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1014.9	-4	SSW	3	zo	38	95	6	5	-	-	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1013.9	-8	SW'S	2	o	35	95	7	6	-	-	10	10	2500
	Cranwell ...	240	1011.4	-14	S'W	3	c/d	36	95	5	6	-	-	10	10	800
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1016.4	+2	W	5	c	48	85	8	4	-	-	10	10	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1020.6	0	W	4	ido	47	95	7	6	1	-	4-6	4-6	2500
	Scilly (St. Mary's)	163	1020.5	+2	NW'W	6	c	47	95	6	5	-	-	9	9	4000
	Guernsey ...	175	1018.7	+2	WNW	4	o/d	48	85	8	5	-	-	10	10	1500
6	Pembroke ...	142	1014.8	-4	W	4	c	49	85	8	8	7	-	4-6	10	1500
7	Holyhead ...	26	1011.1	-12	WSW	5	iro	48	95	6	6	2	-	9+	10	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1009.5	-8	SSW	4	rr	36	95	6	6	-	-	10	10	1500
	Tynemouth ...	67	1006.5	-34	S	2	o	35	95	6	6	-	-	10	10	1500
11	Inchkeith ...	190	1003.8	-30	W	1	o	36	95	6	5	-	-	10	10	800
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	998.4	-22	-	0	dd	37	95	5	6	-	-	10	10	4000
15	Dalwhinnie. ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	1002.9	-18	S	4	ss	34	95	7	5	2	-	2-3	10	2500
16	Lerwick ...	54	1002.5	-10	-	0	c	35	85	7	5	1	-	4-6	7-8	1500
17	Blacksod Point	18	1012.1	0	WSW	4	dd	50	95	6	6	-	-	10	10	<150
18	Malin Head ...	52	1006.2	-4	W	4	df	49	95	4	6	-	-	10	10	220
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1017.2	-10	SSW	3	dd	49	95	4	6	-	-	10	10	1500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 19th January

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)	1011.7	-10	NSW	3	ir	46	95	6	6	-	-	10	10	1500	1	*
Croydon	1012.4	-10	WSW	4	iro	46	85	6	5	-	-	10	10	800	1	*
S. Farnborough	1012.6	-10	W	4	ido	47	95	7	6	-	-	10	10	1500	1	*
Winchester	1013.4	-6	W	4	o	47	85	7	5	-	-	10	10	1500	1	*
Boscombe Down	1013.9	-2	W'N	4	ido	46	85	7	5	-	-	10	10	800	1	*
Calshot, (S'thmtn)	1014.4	-12	W	4	o	47	85	7	5	-	-	10	10	1500	1	1
Dungeness	*	*	WSW	4	O	*	*	7	5	-	*	10	10	2500	*	2
Lympne	1011.9	-14	WSW	4	o/d	43	95	6	5	2	-	9	10	450	1	*
Shoeburyness	1011.7	-14	SW'W	4	iro	45	95	7	6	-	-	10	10	1500	1	*
Felixstowe	1010.5	-30	W'S	4	rr	45	95	7	6	2	-	7-8	10	1500	1	3
Gorleston	1007.5	-28	W	4	rr	42	95	6	6	-	-	10	10	800	1	2
Cranwell	1006.8	-12	W'S	6	c	45	95	6	6	2	-	4.6	9+	800	1	*
Cardington	1009.8	-12	WSW	5	c/r	46	95	7	5	2	-	7-8	10	1500	1	*
Birmingham	1010.2	-4	W	4	d/r	47	95	8	6	2	-	4.6	10	2500	1	*
Upper Heyford	1011.2	-10	W	4	ido	45	95	8	6	2	-	7-8	10	1500	1	*
Leafield	1010.9	-12	WSW	5	c/r	45	95	8	5	-	-	9+	9+	2500	1	*
Ross-on-Wye	1012.1	-6	W	3	c	48	85	8	6	-	-	9+	9+	2500	1	*
Portland Bill	1015.3	-4	W	5	c	48	85	8	4	7	-	7-8	10	1500	1	3
Plymouth	1017.8	-6	W	4	c	48	85	8	5	-	-	9+	9+	1500	1	2
Falmouth	1019.0	-4	WSW	3	ido	47	95	7	6	1	-	4.6	9	2500	1	2
Scilly (St. Mary's)	1018.8	-2	WNW	6	dd	48	95	6	6	-	-	10	10	2500	1	4
Guernsey	1018.8	0	W	4	o/d	49	85	7	5	-	-	10	10	1500	1	4
Pembroke	1013.4	-12	W	5	iro	49	95	7	8	-	-	10	10	1500	1	3
Holyhead	1010.6	+6	W'S	6	c	50	95	7	5	-	-	10	10	450	1	3
Chester (Sealand)	1009.4	-6	W	5	oq	51	85	8	5	-	-	10	10	1500	1	*
L'pool (Bidston)	1007.8	0	WSW	6	oq	47	95	8	5	-	-	10	10	2500	1	*
Harrogate	1006.5	0	W	3	c	48	95	9	6	-	-	9+	9+	2500	1	*
Spurn Head	1002.7	-14	W'N	6	c	45	95	7	3	3	9	4.6	7.8	2500	1	6
Tynemouth	1002.1	+10	W	3	bcr	48	95	7	6	-	-	4.6	4.6	1500	1	2
Inchkeith	1002.8	+8	SW	3	b	42	95	7	-	4	-	0	1	-	3	1
Leuchars	1003.5	+2	WSW	2	b	33	95	7	-	6	1	0	Tr.	-	3	*
Renfrew	1005.4	+8	WNW	3	bc	47	85	7	8	-	-	4.6	4.6	2500	1	*
Eskdalemuir	1004.3	+10	NW'W	6	bc	46	85	7	5	-	-	4.6	4.6	2500	1	*
Tiree	1007.3	+20	NW'W	5	c	47	85	7	5	7	-	4-6	9+	2500	1	3
Stornoway	1002.2	+24	WNW	3	c	46	85	7	3	-	-	9+	9+	4000	2	2
Dalwhinnie	1004.3	+24	WNW	4	bc	41	75	7	5	-	-	4.6	4.6	2500	3	*
Aberdeen	1001.6	+8	WNW	2	ddo	34	95	6	6	-	-	10	10	800	3	1
Wick	1001.2	-8	NE	3	rr	37	95	7	6	2	-	4.6	10	1500	3	3
Lerwick	1003.1	+10	-	0	c	36	75	7	5	1	-	4.6	7.8	800	6	*
Blacksod Point	1012.2	0	W	4	dd	50 (48)	95	6	6	-	-	10	10	<150	1	4
Malin Head	1009.1	+18	NW	3	c/d	47	95	7	6	2	-	4.6	10	800	1	3
Aldergrove	1009.3	+6	SW'W	3	o	47	95	7	5	-	-	10	10	800	1	*
Donaghadee	1008.3	+8	W	3	c	47	95	7	5	-	-	7.8	7.8	1500	1	3
Birr Castle	1012.3	-4	SW	2	ido	50	95	7	5	-	-	10	10	1500	1	*
Valentia Obsy.†	1015.2	-16	SW'W	4	dd	51	95	5	5	-	-	10	10	450	1	3
Roches Point	1015.2	-10	W	3	c	50	95	8	5	-	-	7.8	7.8	1500	0	3

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 18h Hrs. (36)
London (Kew)	44	39	38	0.1	0.3	0.0
Croydon	43	38	37	0.1	0.1	0.0
S. Farnborough	44	38	37	Tr	1	0.0
Winchester	44	40	38	0.3	2	0.0
Boscombe Down	44	41	42	1	0.4	*
Calshot, (S'thmtn)	46	42	41	0.2	1	0.0
Dungeness	47	38	*	0.1	0.1	*
Lympne	42	37	36	0.1	0.2	0.0
Shoeburyness	48 (43)	37	36	Tr	0.2	0.0
Felixstowe	42	37	36	0.1	0.1	0.0
Gorleston	41	35	34	0.3	2	0.0
Cranwell	41	34	33	Tr	0.5	0.0
Cardington	42	36	36	0.1	0.5	0.0
Birmingham	39	36	36	2	1	0.0
Upper Heyford	42	36	36	0.5	1	*
Leafield	42	36	36	0.3	1	0.0
Ross-on-Wye	43	41	40	0.4	0.1	0.0
Portland Bill	50	47	*	1	0.5	*
Plymouth	51	47	46	Tr	-	0.0
Falmouth	50	47	*	0.1	1	0.1
Scilly (St. Mary's)	50	47	*	0.3	0.3	0.1
Guernsey	50	48	45	0.2	Tr.	0.2
Pembroke	49	45	*	1	Tr.	0.0
Holyhead	48	47	46	2	1	0.0
Chester (Sealand)	42	39	38	1	2	0.0
L'pool (Bidston)	42	37	36	0.6	2	0.0
Harrogate	39	34	32	0.5	1	0.0
Spurn Head	40	35	*	Tr	2	0.0
Tynemouth	39	33	32	2	6	*
Inchkeith	38	32	32	3	6	0.0
Leuchars	37 (38)	31	29	2	6	0.0
Renfrew	38	34	34	2	4	0.0
Eskdalemuir	36	31	32	1	6	0.0
Tiree	41	41	41	8	3	0.0
Stornoway	36	34	*	3	11	0.0
Dalwhinnie	32	26	*	1	6	0.0
Aberdeen	34	31	30	0.3	6	0.0
Wick	34	32	*	0.6	2	*
Lerwick	36	34	*	0.2	-	0.0
Blacksod Point	50	48	*	1	1	*
Malin Head	47	46	*	3	5	0.0
Aldergrove	46	45	44	2	1	0.0
Donaghadee	44	43	*	1	0.4	*
Birr Castle	49	48	46	0.2	0.3	0.0
Valentia Obsy.†	49	48	47	0.8	2	0.1
Roches Point	52	46	*	-	Tr.	*

LONDON OBSERVATIONS.

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

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	czcbrmo	crmomo	omddrdo	44	39	38	0.1	0.3	0.0	•	•	6
Croydon ...	217	cbrcbrozo	czoroo	cmroroc	43	38	37	0.1	0.1	0.0	•	•	6
Greenwich (Royal Observatory) ...	149	cdom	cdom	cddom	43	39	36	Tr.	0.3	0.0	71	91	4
City (Bunhill Row) ...	—	•	•	•	•	•	•	•	•	0.0	•	•	•
Westminster (St. James' Park) ...	27	•	•	•	43	39	37	-	-	0.0	67	89	•
Regents Pk. (Botanic Gardens) ...	168	•	•	•	•	•	•	•	•	0.0	•	•	•
Camden Square ...	110	oc	c	•	42	40	38	-	0.3	•	•	92	•
Kensington Palace ...	80	co	o	•	44	39	37	-	0.6	•	At 18h. 80	91	•
Hampstead Observatory ...	450	Codm	odm	•	41	36	33	Tr.	0.5	0.0	•	81	•

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

	Max.	Time.	Min.	Time.
South Kensington.	0.8	10h 18th	<0.3	2-6h 19th
Kew Observatory.	0.3	18h 18th	<0.1	5h 19th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 18th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 19th January 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	W	2	c/r	45	1017.4	NSW	3	c	46	46	(43)	Tr.	-
Brussels ...	1012.8	NW	2	iro	36	1012.2	SSW	3	ido	37	41	34	0.1	1
Berlin ...	997.2	WSW	4	bs	36	1009.9	W	2	o	36	37	30	Tr.	0.6
Zürich ...						1021.2	NNW	2	13	34		31		9
Rome ...	1007.9	NW	3	b	45	1019.1	ENE	2	bc	27	55	28	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.

The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.

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

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

COLUMNS 34, 35.

Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

Objects not visible at

0 Dense fog 55 yards.
1 Thick fog 220 ,,
2 Fog 550 ,,
3 Moderate fog 1,100 ,,
4 Mist or haze 1¼ miles.
5 Poor visibility 2½ ,,
6 Moderate ,, 6¼ ,,
7 Good ,, 12½ ,,
8 Very good ,, 31 ,,
9 Excellent ,, beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

TUESDAY 20TH JANUARY 1931.

No. 25261

OBSERVATIONS at 13h. G.M.T. 19th JAN.

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)	1012.8	+6	W	3	c	50	85	5	5	-	-	10	10	2500
	Croydon	1012.8	+2	W'N	4	c	50	85	6	5	2	-	9	10	800
	S. Farnborough	1012.9	-2	W	3	o/r	51	85	7	6	-	-	10	10	800
	Winchester	1014.0	+2	W	4	c	50	85	8	5	-	-	10	10	1500
	Boscombe Down	1014.2	+2	W'N	4	c	49	95	8	5	-	-	10	10	800
	Calshot, S'thmtn	1014.5	-4	W'N	4	c	51	85	8	5	-	-	9+	9+	1500
	Dungeness	*	*	WSW	4	c	*	*	6	5	-	-	10	10	2500
	Lympne	1012.1	+4	W	4	c	49	85	6	5	2	-	9	10	800
2	Shoeburyness	1011.1	0	W	5	c	51	85	8	5	-	1	4-6	7-8	4000
	Felixstowe	1010.3	+6	WNW	3	c	50	85	7	5	-	-	7-8	7-8	2500
	Gorleston	1008.2	+6	WNW	3	o	50	85	6	6	-	-	10	10	2500
	Cranwell	1002.9	+14	WNW	2	c	50	85	6	5	-	6	9+	9+	1500
3	Cardington	1011.0	+2	W	3	id.	50	85	7	5	2	-	9	10	1500
	Birmingham	1012.0	+4	WNW	3	c	50	95	5	6	2	-	4-6	10	2500
	Upper Heyford	1012.1	-2	WSW	4	c	50	95	7	5	2	-	4-6	10	1500
	Leafield	1012.3	0	W'S	3	c	49	95	7	6	1	-	4-6	10	4000
4	Ross-on-Wye	1012.5	+4	W	3	c	53	85	8	5	1	-	9	10	2500
5	Portland Bill	1015.4	0	W	5	c	51	85	7	4	7	-	7-8	9	1500
	Plymouth	1017.5	-4	SW	3	o/d	49	95	7	5	-	-	10	10	450
	Falmouth	1018.5	-6	W	5	id.	49	95	7	6	2	-	7-8	10	2500
	Scilly (St. Mary's)	1018.7	-10	W'N	5	c	49	95	7	2	3	-	7-8	9	4000
	Guernsey	1018.5	-2	W	4	id.	49	95	6	6	-	-	10	10	1500
6	Pembroke	1013.8	-4	W	5	f	49	95	2	5	-	-	10	10	<150
7	Holyhead	1011.9	+2	W'N	4	ir.	49	95	6	5	-	-	10	10	450
	Chester (Sealand)	1012.0	+6	W'N	3	dd	49	95	6	5	-	-	10	10	800
8	L'pool (Bidston)	1011.3	+8	W	4	f	46	95	3	5	-	-	10	10	1500
9	Harrogate	1008.6	+30	SSW	3	c	47	85	9	6	2	2	Tr.	7-8	2500
10	Spurn Head	1007.3	+6	NW	5	c	46	95	6	5	-	2	4-6	7-8	2500
	Tynemouth	1007.3	+14	W	2	bc	50	75	7	2	-	1	2-3	4-6	2500
11	Inchkeith	1007.5	+14	WSW	3	c	45	85	6	5	1	-	4-6	9	1500
	Leuchars	1006.9	+14	W	4	c	43	75	8	4	3	-	7-8	7-8	4000
12	Renfrew	1009.2	+14	WSW	2	c	48	75	7	4	7	-	4-6	9+	2500
	Eskdalemuir	1008.7	+10	WNW	3	c	41	75	8	5	-	7	7-8	10	2500
13A	Tiree	1009.0	+2	WNW	3	c	47	85	8	5	2	8	1	10	2500
13B	Stornoway	1007.7	+14	NW	2	c	41	95	8	4	-	-	9+	9+	4000
15	Dalwhinnie	1008.1	+18	S	3	c	40	75	8	5	-	-	7-8	7-8	2500
	Aberdeen	1007.5	+26	WNW	3	c	36	95	6	6	2	-	2-3	10	2500
	Wick	1007.4	+26	NE	3	c	39	85	8	9	-	8	4-6	7-8	1500
16	Lerwick	1006.3	+12	NW	2	c	38	85	8	5	2	-	4-6	7-8	1500
17	Blacksod Point	1010.6	-4	ENE	1	dd	43	95	3	6	-	-	10	10	<150
18	Malin Head	1010.0	0	W	2	c	47	85	7	5	-	-	9+	9+	1500
	Aldergrove	1011.2	-18	SW	2	c	47	85	7	5	-	-	10	10	1500
	Donaghadee	1010.9	+6	W	2	c	48	85	7	5	-	-	9	9	1500
19	Birr Castle	1012.5	-4	S	1	o	50	95	7	6	-	-	10	10	2500
20	Valentia Obsy.	1013.6	-20	S'W	4	o/d	50	95	7	5	-	-	10	10	450
	Roches Point	1014.7	-6	W	3	c	51	95	8	3	-	-	9	9	1500

OBSERVATIONS at 18h. G.M.T. 19th JAN.

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)	1014.4	+10	W'S	2	o	50	85	5	5	-	-	10	10	2500	1	*
Croydon	1014.0	+10	W'S	3	m.	49	95	5	5	-	-	10	10	1500	1	*
S. Farnborough	1014.2	+8	W	3	o	49	95	7	5	-	-	10	10	450	1	*
Winchester	1015.1	+8	W'N	4	id.	49	95	7	5	-	-	10	10	800	1	*
Boscombe Down	1015.2	+8	WNW	3	id.	49	95	7	5	-	-	10	10	800	1	*
Calshot, S'thmtn	1015.5	+2	SW'W	3	c	48	95	7	5	-	-	10	10	1500	1	1
Dungeness	*	*	WSW	3	m	*	*	4	5	5	*	4-6	7-8	1500	*	2
Lympne	1013.5	+12	W	3	m.	49	95	6	5	2	-	7-8	9	1500	1	*
Shoeburyness	1012.7	+6	W	3	c	49	95	6	5	2	-	4-6	9+	4000	0	*
Felixstowe	1013.1	+26	WNW	2	c	50	85	7	5	-	-	10	10	1500	1	2
Gorleston	1011.8	+16	NW'N	2	bc	48	85	6	5	-	-	4-6	4-6	1500	0	2
Cranwell	1012.5	+22	W'N	3	c	44	95	6	5	-	6	2-3	9	4000	1	*
Cardington	1013.1	+12	W'N	3	id.	49	95	7	6	2	-	9	10	1500	1	*
Birmingham	1013.3	+8	W	2	c	49	95	6	-	2	-	0	10	-	1	*
Upper Heyford	1014.3	+14	W	2	m.	47	95	5	5	-	-	10	10	800	1	*
Leafield	1013.7	+6	SW'W	3	f	46	95	3	5	-	-	10	10	<150	1	*
Ross-on-Wye	1013.6	+4	SW	2	c	50	95	6	5	-	-	10	10	1500	1	*
Portland Bill	1015.7	+2	WSW	5	c	48	95	7	4	7	-	7-8	9	1500	1	3
Plymouth	1017.5	+2	W	4	c	48	95	7	5	-	-	10	10	1500	2	2
Falmouth	1017.8	-2	SW'W	4	id.	48	95	7	6	2	-	7-8	10	2500	1	2
Scilly (St. Mary's)	1017.2	-2	W'S	5	id	49	95	6	6	-	-	9	9	2500	1	3
Guernsey	1018.8	+8	W	2	o/d	48	95	6	5	-	-	10	10	1500	1	3
Pembroke	1013.4	+4	WSW	4	q	49	95	7	5	2	-	9	10	1500	1	3
Holyhead	1012.2	+4	SE'S	1	r.r.	47	95	4	6	-	-	10	10	220	1	0
Chester (Sealand)	1012.9	+6	W	1	m.	47	95	6	5	-	-	10	10	1500	1	*
L'pool (Bidston)	1012.7	+6	WSW	1	o/r	46	95	6	5	-	-	10	10	1500	1	*
Harrogate	1012.2	+14	SW'S	3	b	42	95	7	4	-	-	Tr.	Tr.	4000	1	*
Spurn Head	1010.9	+12	WNW	3	bc	44	95	6	5	3	-	4-6	4-6	1500	0	4
Tynemouth	1010.9	+28	WNW	2	bc	43	85	6	5	-	-	4-6	4-6	1500	0	2
Inchkeith	1010.3	+14	E	2	c	41	95	8	5	-	-	10	10	5700	0	0
Leuchars	1010.5	+18	E	1	c	39	85	8	5	-	-	9+	9+	4000	3	*
Renfrew	1010.9	+12	NE	1	m.	41	95	5	5	2	-	9	10	2500	1	*
Eskdalemuir	1011.4	+10	-	0	c	36	95	8	5	-	8	2-3	9	2500	1	*
Tiree	1009.4	0	SSW	1	c	43	95	8	6	7	-	4-6	10	2500	0	2
Stornoway	1008.4	-2	-	0	c	40	95	7	4	6	-	4-6	9	4000	1	0
Dalwhinnie	1009.9	+10	N	1	c	34	95	8	5	-	-	7-8	7-8	2500	3	*
Aberdeen	1011.4	+20	NW	2	fb	35	95	3	-	-	-	0	0	-	8	1
Wick	1010.2	+18	W	2	c	34	95	8	8	1	-	4-6	7-8	2500	1	3
Lerwick	1009.4	+18	NW	2	bc	35	75	7	5	4	-	1	2-3	1500	6	*
Blacksod Point	1007.0	-12	SSW	3	RR	50	95	7	6	-	-	10	10	<150	1	3
Malin Head	1009.4	-4	S	1	c	44	95	6	5	2	-	7-8	9+	1500	0	1
Aldergrove	1010.7	-6	SE'S	2	c	45	85	7	5	-	-	10	10	1500	1	*
Donaghadee	1010.6	-2	W	1	c	45	95	6	5	-	-	7-8	7-8	1500	0	0
Birr Castle	1010.6	-6	SSW	1	ir	50	95	7	6	-	-	10	10	1500	1	*
Valentia Obsy.	1010.5	-18	S	4	dd	51	96	6	5	-	-	10	10	800	1	3
Roches Point	1013.0	-6	SW	3	id.	51	95	6	5	-	-	10	10	800	1	3

PAST 24 HOURS.

Stations	Weather 7h.–13h. 19th (37)	Weather 13h.–18h. 19th (38)	Weather 18h. 19th–1h. 20th (39)	Weather 1h.–7h. 20th (40)
London (Kew)	orcm.	cm.om.	cm.r	cr.cm.
Croydon	cr.rcm.	cm.	cm.ir.	omd.r.
S. Farnborough	od.cr.	oco	od.o	ordom.
Winchester	c	cor.	cr.c	orrfcfc
Boscombe Down	cid.c	cid.	cid.	crrc
Calshot, S'thmtn	c	c	c	corrdm.
Dungeness	o	o	*	d
Lympne	cd.m	cm.	cmddFf	omd.of
Shoeburyness	oir.bc	bccm.	cm.ir.	cmir.
Felixstowe	crr.cbc	bcc	c	cordd.f
Gorleston	orrom.	ocm.m	bcm.m.	comm.r.
Cranwell	om.cm	cm.	cprm	cpr.bc
Cardington	cd.c	cid.	cip.c	orrcm.
Birmingham	co	cpr	cor.	oc
Upper Heyford	cr.	com.	od.om	om
Leafield	c	cod.f	ff.	fboc
Ross-on-Wye	c	c	oco	opoc
Portland Bill	c	c	c	cRRc
Plymouth	coid.	od.c	cod.r.	orid.m.
Falmouth	cid.q	cid.q	om.d.q	om.dqc
Scilly (St. Mary's)	odcid	cid	cdor	orrdc
Guernsey	oid.o	oid.o	oidro	oidpr
Pembroke	oqf	offcq	oirdf	iFdqc
Holyhead	c	ir. fd.r.	r.rmm	ir.
Chester (Sealand)	cdDm.	m.	cirr.	r.rc
L'pool (Bidston)	oddf	foir.	oir.r	r.rid
Harrogate	cbcc	cb	b	bbcomd.
Spurn Head	bc	cmbc	c3w	codfr
Tynemouth	bc	bc	bcff	bcorff
Inchkeith	bbcc	c	oc	coir.
Leuchars	b,cbcc	c	c	com.d.
Renfrew	bcc	cm.	cm.	cir.r.
Eskdalemuir	bcc	c	cbx	bxorm
Tiree	c	c	c	pF
Stornoway	c	c	cd.	corr
Dalwhinnie	c	c	c	r.r.
Aberdeen	oddcm.	cdrom.	FFc	cor
Wick	cr.rcirc	c	bcc	c
Lerwick	c	cbc	bc	bcc
Blacksod Point	dd	dd	ir	c
Malin Head	c	cz.z.	c3z3cdmm.	crd.m.bc
Aldergrove	ocd.c	c	crrr.	cir.bc
Donaghadee	c	cm.	r.r.c	c
Birr Castle	oiro	oir	orr	orrc
Valentia Obsy.	oddid.id	orr.odd	odd.ir.b	bbcp.c
Roches Point	c	coid.	oid.c	cbc

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

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

<, less than (for cloud height).

⊕, solar halo. ◐, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

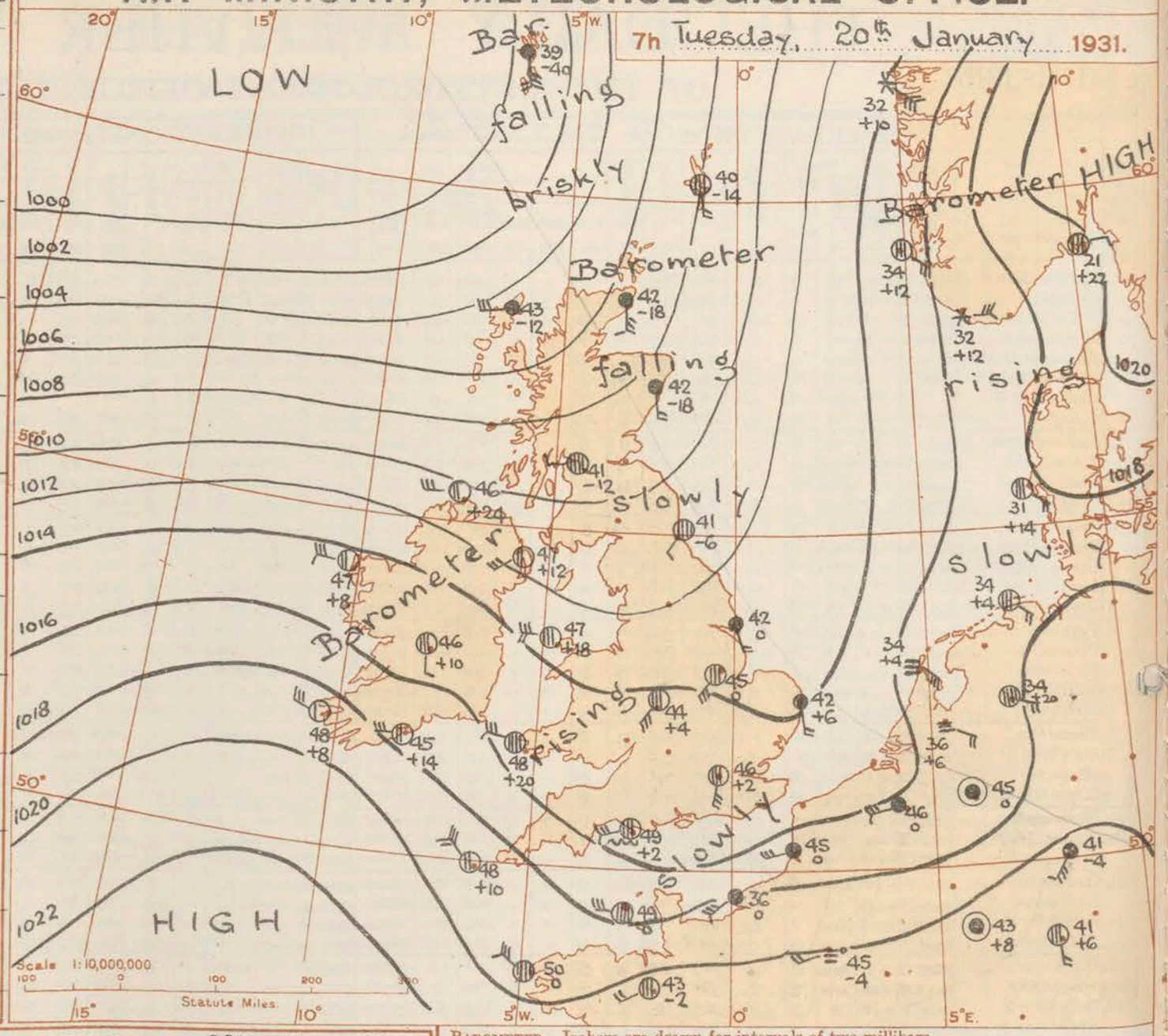
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for Monday, 19th January 1931.

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.	o	o	38	51	0.3	–	0.0
	Bournemouth	o	o	42	52	1	–	0.0
	Ventnor ...	opco	ouf	42	49	1	–	0.0
	Southsea ...	o	o	42	50	0.6	–	0.0
	Bognor Regis	o	o	40	50	1	–	0.0
	Littlehampton	op.o	o	39	49	0.5	Tr.	0.0
	Worthing ...	o	o	40	50	1	–	0.0
	Brighton ...	oc	co	40	47	0.3	–	0.0
	Eastbourne†	o	o	40	48	1	–	0.0
	Hastings† ...	oco	opom	38	49	0.5	0.1	0.0
	Folkestone ...	orom.	ocm.	38	51	0.4	Tr.	0.0
	Dover... ...	r.oco	oc	40	51	0.3	Tr.	0.0
	Deal	c	oc	38	52	–	–	0.0
	Ramsgate ...	c	c	38	51	0.2	–	0.0
	Margate ...	c	c	39	50	0.3	–	0.0
2	Southend ...	ojc	c	37	50	0.6	–	0.0
	Maldon ...	rabc	co	39	52	0.5	–	0.6
	Clacton-on-Sea	cbc	bcc	37	52	1	–	1.8
	Dovercourt ...	doc	oc	37	48	Tr.	–	0.0
	Lowestoft ...	cprc	c	34	49	3	–	0.1
	Skegness ...	oprob	bbc	35	52	1	–	1.4
	Mablethorpe	ocm.	cm.	34	51	1	–	0.0
	Cleethorpes ...	c	co	34	52	1	–	2.7
3	Leamington S.	o	o	37	52	2	–	0.0
4	Cheltenham†	o	or.	40	51	1	0.3	0.0
5	Bath	r.c	c	43	50	0.3	Tr.	0.0
	Weymouth ...	c	coε	44	51	1	–	0.0
	Jersey ...	pc	cd	47	50	0.3	Tr.	0.0
	Torquay ...	cqbc	co	45	53	–	–	1.5
	Penzance ...	c	c	47	51	2	–	0.0
	St. Ives ...	o	d	46	49	1	Tr.	0.0
	Bude	omd	omd	44	50	1	1	0.0
	Ilfracombe ...	od	od	45	50	1	1	0.0
6	Aberystwyth	oir	oRm	41	47	7	1	0.0
7	Llandudno ...	od	om.	40	49	3	0.2	0.0
	Colwyn Bay...	odd	dodo	40	50	2	2	0.0
	Rhyl	om.d.	om.d.	39	51	1	1	0.0
8	Wallasey ...	od.	od.	38	47	3	0.3	0.0
	Southport‖ ...	odo	o	40	46	6	0.1	0.0
	Blackpool ...	oro	oc	38	46	7	–	0.0
	Morecambe ...	rdpc	dpcc	36	47	8	Tr.	0.0
9	Ilkley	oc	bcc	35	49	2	–	0.6
10	Berwick-on-T.	cbc	co	31	46	7	–	2.9
11	Dunbar ...	bc	m.c	32	45	7	–	1.6
12	Douglas ...	cb	cbc	38	49	6	–	0.0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 20th Jan., 1931.
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Light to moderate winds between west and south, probably freshening tomorrow, cloudy with slight local rain at first, brighter later, possibly further rain tomorrow; mild.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind west moderate backing southwest or south and becoming strong, bright at first, cloud increasing, probably rain later; mild.
9. N. Midlands 10. N.E. England 11. S.E. Scotland	As 1 - 4.
12. S.W. Scotland & Isle of Man	As 5 - 8.
13. A. W. Scotld. B. N.W. Scotland.	
14. Mid-Scotland	As 1 - 4.
15. N.E. Scotland 16. Orkneys and Shetlands.	Moderate to strong southerly winds, some rain; moderate temperature.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate westerly wind backing south and becoming strong, cloudy, some rain; mild or rather mild.

GENERAL INFERENCE.

A trough of low pressure now over Scotland and Eastern England is being followed by a feeble wedge of high pressure which is likely to give way quickly with the advance of a fresh depression. Occasional rain in Scotland and Eastern England at first will be followed by a temporary improvement, the present mainly fair conditions in the west will probably deteriorate during the day.

FURTHER OUTLOOK.

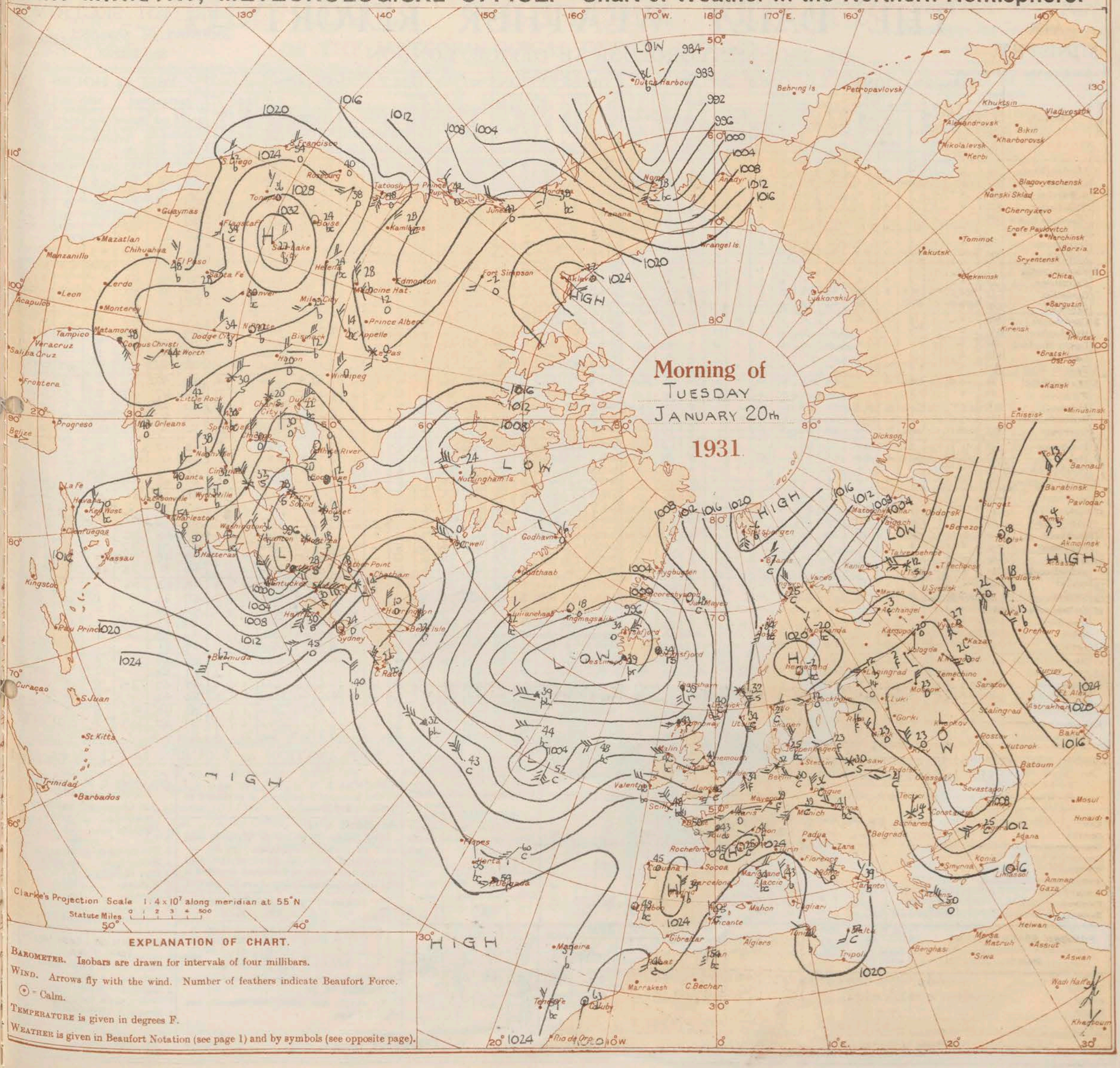
None issued.

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 Wt. 24438/2174 Wt. 26 D.6026 6p 808 27900 1/31.

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



EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

TUESDAY, 20TH JANUARY 1931.

No. 25261

OBSERVATIONS at 1 hr. G.M.T. 20TH JAN.

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	1014.7	-2	SW'W	3	d₀d₀	48	95	5	6	-	-	10	10	800
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	1015.7	0	SW'W	3	0	46	95	7	5	-	-	10	10	1500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1015.1	+2	SW'W	3	df	46	95	2	6	-	-	10	10	<150
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	1014.0	+8	W'S	2	bc	43	95	6	5	-	-	4.6	4.6	1500
	Cranwell ...	240	1013.4	0	SE'S	1	pr	43	95	4	6	-	-	10	10	2500
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	1015.6	-2	WSW	4	c	48	95	8	4	7	-	7.8	9	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1016.1	-8	SW'W	6	d₀d₀	49	95	6	6	-	-	10	10	2500
	Scilly (St. Mary's)	163	1015.6	-2	W	6	r₀r₀	50	95	6	6	-	-	10	10	2500
	Guernsey ...	175	1018.0	-10	WSW	2	o/r	48	95	8	5	-	-	10	10	1500
6	Pembroke ...	142	1011.7	-8	S	4	df	49	95	1	-	-	-	10	10	<150
7	Holyhead ...	26	1010.7	-2	SW'W	4	dr	48	95	5	6	-	-	9+	9+	220
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	1012.8	0	-	0	cm₀	40	95	5	5	-	-	7.8	7.8	800
	Tynemouth ...	67	1012.0	0	SW	1	bcf	39	95	3	5	-	-	2.3	2.3	1500
11	Inchkeith ...	190	1010.9	-6	SSE	1	c	39	95	6	5	1	-	4.6	7.8	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1006.3	-6	S	3	c	43	95	7	4	-	-	10	10	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1009.3	-12	S	4	c	41	85	8	5	2	-	4.6	9	2500
16	Lerwick ...	54	1010.6	+4	-	0	bc	32	85	7	5	-	-	2.3	2.3	1500
17	Blacksod Point	18	1010.5	+8	WNW	4	bc	47	95	7	5	-	-	2.3	2.3	4000
18	Malin Head ...	52	1006.9	-8	S'W	2	dr	46	95	5	6	2	-	4.6	10	800
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1015.5	+20	W'N	4	b	45	95	9	-	-	-	0	0	-
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 20TH JAN.

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)...	1015.5	+4	SW	2	c	46	95	5	5	7	-	7.8	9	2500	1	*
	Croydon ...	1015.2	+2	SSW	3	c/r	46	95	6	5	2	-	4.6	7.8	800	1	*
	S. Farnborough	1015.1	0	SSW	1	DD	46	95	6	6	-	-	10	10	450	1	*
	Winchester ...	1015.5	-22	S	1	f	46	95	2	-	-	-	10	10	<150	1	*
	Boscombe Down	1015.4	0	SW	1	c	46	95	7	5	-	-	9+	9+	1500	1	*
	Calshot (S'thmtn)	1015.3	-4	SW'W	3	o/d	48	95	5	5	-	-	10	10	800	1	1
	Dungeness ...	*	*	SW	2	d₀d₀	*	*	4	6	-	*	10	10	1500	*	1
	Lympne ...	1015.6	+2	SW'W	3	df	45	95	2	6	-	-	10	10	<150	1	*
2	Shoeburyness	1015.3	*	WSW	2	c	46	95	6	5	-	-	9+	9+	2500	1	*
	Felixstowe ...	1015.2	0	SW'W	2	df	45	95	3	5	-	-	10	10	800	1	2
	Gorleston ...	1013.9	+6	S'E	2	r₀r₀	42	95	5	6	-	-	10	10	1500	1	1
	Cranwell ...	1013.3	0	SW'W	3	c	45	95	5	5	4	-	9	9+	1500	1	*
3	Cardington ...	1014.3	+2	SW'W	3	c	44	95	6	5	-	-	7.8	7.8	1500	1	*
	Birmingham ...	1014.2	+4	SW	3	c	44	95	6	5	3	-	4.6	9	4000	1	*
	Upper Heyford	1015.0	0	SW	1	om	45	95	4	5	-	-	10	10	800	1	*
	Leafield ...	1014.4	0	SW'S	2	f	44	95	2	5	-	-	10	10	<150	1	*
4	Ross-on-Wye ...	1014.3	+6	WSW	2	c	46	95	6	5	-	-	9+	9+	1500	1	*
5	Portland Bill...	1014.8	+2	WSW	4	c	49	95	8	4	7	-	7.8	9	1500	1	4
	Plymouth ...	1017.3	+16	WNW	3	id₀	48	95	6	5	-	-	10	10	450	2	2
	Falmouth ...	1018.3	+12	W'N	4	c	48	85	7	5	2	-	7.8	10	4000	1	2
	Scilly (St. Mary's)	1018.9	+10	NW'N	5	bc	48	85	7	5	-	-	4.6	4.6	4000	1	3
	Guernsey ...	1017.7	0	W	3	o	49	95	8	5	-	-	10	10	1500	1	3
6	Pembroke ...	1014.8	+20	WNW	4	cq	48	95	8	8	2	-	9	10	1500	1	3
7	Holyhead ...	1013.5	+18	WNW	5	c	47	95	8	5	-	-	9+	9+	800	1	3
	Chester (Sealand)	1013.5	+10	-	0	c	46	95	6	5	-	8	7.8	9	2500	1	*
8	L'pool (Bidston)	1012.9	+2	SW'W	3	dd	47	95	7	5	-	-	10	10	1500	1	*
9	Harrogate ...	1012.3	0	S'W	3	id₀	45	95	4	6	2	-	9+	10	<150	1	*
10	Spurn Head ...	1012.5	0	S'E	2	rf	42	95	3	5	-	-	10	10	220	1	3
	Tynemouth ...	1010.7	-6	SW	1	c	41	95	6	6	-	-	10	10	1500	1	2
11	Inchkeith ...	1009.4	-8	SSE	2	r	41	95	7	5	-	-	10	10	2500	1	1
	Leuchars ...	1009.2	-12	-	0	id₀	35	95	6	5	-	-	10	10	2500	1	*
12	Renfrew ...	1009.0	-12	W	1	dr	41	95	5	6	-	-	10	10	800	1	*
	Eskdalemuir ...	1010.2	-6	-	0	rr	37	95	4	5	-	-	10	10	<150	1	*
13	Tiree	1007.9	+10	W'N	5	bc	45	95	7	8	7	-	4.6	4.6	2500	1	3
13B	Stornoway ...	1004.1	-12	W	3	rr	43	95	7	6	-	-	10	10	4000	2	2
15	Dalwhinnie ...	1007.8	-8	WSW	4	rr	36	95	7	5	-	-	7.8	7.8	1500	1	*
	Aberdeen ...	1008.6	-18	S'E	2	rr	42	95	6	6	-	-	10	10	1500	1	1
	Wick	1006.6	-18	S	4	rr	42	95	8	9	2	-	7.8	10	1500	1	3
16	Lerwick ...	1008.0	-14	S'E	2	c	40	85	7	8	2	-	2.3	7.8	1500	(0) 6	*
17	Blacksod Point	1014.6	-8	W	4	bc	47	85	7	4	-	-	4.6	4.6	4000	0	3
18	Malin Head ...	1010.4	+24	W	3	bc	46	85	7	5	-	-	2.3	2.3	4000	1	2
	Aldergrove ...	1012.6	+20	SW	3	bc	43	95	7	5	-	-	4.6	4.6	1500	1	*
	Donaghadee ...	1010.8	+12	WSW	3	bc	47	85	7	5	-	-	4.6	4.6	2500	1	2
19	Birr Castle ...	1015.6	+10	S	1	c	46	95	7	5	-	-	7.8	7.8	2500	1	*
20	Valentia Obsy.†	1018.2	+8	WNW	3	b	48	85	8	8	-	-	1	1	2500	1	3
	Roches Point...	1017.1	+14	W	3	bc	45	85	8	3	-	-	2.3	2.3	1500	0	3

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 19th Hrs. (36)
1	London (Kew)...	51	46	43	0.4	0.6	0.0
	Croydon ...	53	46	43	0.5	1	0.0
	S. Farnborough	51	45	43	Tr.	1	0.0
	Winchester ...	50	45	44	Tr.	3	0.0
	Boscombe Down	49	44	44	0.1	2	*
	Calshot (S'thmtn)	52	44	42	-	2	0.0
	Dungeness ...	47	44	*	Tr.	Tr.	*
	Lympne ...	50	44	43	0.1	1	0.0
2	Shoeburyness	52	44	42	0.2	0.4	0.2
	Felixstowe ...	51	43	43	0.1	1	0.1
	Gorleston ...	50	41	39	1	0.2	0.0
	Cranwell ...	50	40	36	-	1	0.0
3	Cardington ...	51	44	42	1	2	0.0
	Birmingham ...	50	44	42	Tr.	0.3	0.0
	Upper Heyford	51	45	44	Tr.	Tr.	*
	Leafield ...	49	44	43	Tr.	-	0.0
4	Ross-on-Wye ...	53	46	42	-	0.3	0.0
5	Portland Bill...	50	42	*	-	2	*
	Plymouth ...	50	47	47	Tr.	1	0.0
	Falmouth ...	50	48	*	Tr.	1	0.1
	Scilly (St. Mary's)	49	47	*	0.2	1	0.0
	Guernsey ...	50	47	45	0.1	2	0.1
6	Pembroke ...	49	47	*	Tr.	2	0.0
7	Holyhead ...	50	46	46	2	6	0.0
	Chester (Sealand)	51	46	42	0.6	2	0.0
8	L'pool (Bidston)	47	45	44	Tr.	1	0.0
9	Harrogate ...	48	38	31	-	0.1	2.1
10	Spurn Head ...	47	39	*	-	0.4	1.8
	Tynemouth ...	50	38	30	-	2	*
11	Inchkeith ...	47	38	36	-	Tr.	2.7
	Leuchars ...	44	33	32	-	Tr.	1.8
12	Renfrew ...	49	39	33	-	2	1.5
	Eskdalemuir ...	46	31	28	-	1	0.8
13	Tiree	48	43	38	-	1	0.0
13B	Stornoway ...	47	38	*	1	5	0.1
15	Dalwhinnie ...	42	32	*	*	3	0.0
	Aberdeen ...	37	32	29	1	0.3	0.0
	Wick	40	33	*	1	-	*
16	Lerwick ...	39	31	*	-	Tr.	3.6
17	Blacksod Point	51	45	*	5	1	*
18	Malin Head ...	47	44	*	-	1	0.0
	Aldergrove ...	47	42	39	Tr.	5	0.0
	Donaghadee ...	50	45	*	-	4	*
19	Birr Castle ...	50	45	42	5	3	0.0
20	Valentia Obsy.†	51	47	43	5	0.6	0.0
	Roches Point...	52	44	*	0.1	0.2	*

LONDON OBSERVATIONS.

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

	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	orcm₀	cm₀om₀	cm₀rrc	51	46	43	0.4	0.6	0.0	*	*	3
CROYDON	217	crr₀cm₀	cm₀	m₀rdr	53	46	43	0.5	1	0.0	*	*	6
GREENWICH (Royal Observatory) ...	149	c	c	cdrbcf	51	45	35	-	0.5	0.0	87	95	3
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0		*	*
WESTMINSTER (St. James' Park) ...	27	*	*	*	51	45	39			0.0	85	94	*
REGENTS PK. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*	0.0	*	*	*
CAMDEN SQUARE	110	c	c	*	50	46	41	-	0.5	*	*	95	*
KENSINGTON PALACE	80	co	co	*	51	46	40	-	0.4	*	At 18h. 88	95	*
HAMPSTEAD OBSERVATORY	450	ormod	omr	*	49	42	39	0.1	1	0.0	*	98	*

Atmospheric Pollution.
Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON. Max.	Time.	Min.	Time.
1.0	10h 19th	<0.3	0-6h 20th

KEW OBSERVATORY. Max.	Time.	Min.	Time.
0.2	12h 19th	<0.1	4h 20th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 19th JAN. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 20th JAN. 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	WSW	4	d₀d₀	48	1019.9	WSW	2	om	46	50	46	0.4	Tr
BRUSSELS	1013.1	W'N	3	0	46						46		6	
BERLIN	1009.5	SSE	1	1s₀	34	1018.0	WNW	2	c	30	36	28	0.3	0.1
ZÜRICH	1021.5	W	5	rr	39						41		8	
ROME	1016.9	ESE	2	b	37	1021.0	ESE	2	c	45	57	*	-	*

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

WEDNESDAY, 21st JANUARY 1931.

No. 25262.

OBSERVATIONS at 13h. G.M.T. 20th JAN.

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)...	1017.8	+10	W'N	2	o	49	95	5	6	-	-	10	10	1500
	Croydon ...	1017.6	+14	WNW	2	m.	48	95	5	5	-	-	10	10	800
	S. Farnborough	1017.5	+10	WNW	1	o	49	95	6	5	-	-	10	10	800
	Winchester ...	1018.4	+14	NW'W	3	c	49	95	7	5	-	-	10	10	1500
	Boscombe Down	1018.3	+14	WNW	3	c	49	95	6	5	-	-	10	10	1500
	Calshot, S'thmtn	1018.0	+12	WNW	2	c	50	85	7	5	-	-	9+	9+	1500
	Dungeness ...	*	*	SW	2	m	*	*	4	5	-	*	7.8	7.8	1500
	Lympne ...	1017.1	+4	W'N	2	m.	48	95	6	5	-	-	10	10	1500
2	Shoeburyness	1017.6	+10	NNW	2	o	49	95	5	5	-	-	10	10	1500
	Felixstowe ...	1017.3	+10	W'N	1	c	48	95	6	5	-	-	9+	9+	1500
	Gorleston ...	1015.8	+10	W'S	1	c	47	95	6	4	-	-	9+	9+	2500
	Cranwell ...	1016.2	+14	W'N	4	c	49	85	6	5	-	1	7.8	9	2500
3	Cardington ...	1016.9	+8	W'N	2	o	49	95	7	6	-	-	10	10	800
	Birmingham ...	1017.7	+18	NNW	4	c	48	75	6	6	-	2	2.3	7.8	2500
	Upper Heyford	1018.2	+18	WNW	3	c	50	85	8	5	2	-	7.8	10	1500
	Leafield ...	1017.5	+20	WNW	4	cjp	50	85	8	5	-	1	9+	9+	1500
4	Ross-on-Wye ...	1018.3	+24	WNW	4	c	49	75	8	7	-	2	4.6	7.8	4000
5	Portland Bill...	1018.4	+12	W	4	c	48	95	7	4	7	-	7.8	9+	1500
	Plymouth ...	1020.4	+10	NNW	4	c	50	75	8	7	-	1	7.8	7.8	2500
	Falmouth ...	1022.5	+16	NNW	3	c	49	85	8	8	-	-	7.8	7.8	4000
	Scilly (St. Mary's)	1022.2	+12	NW'N	4	c	51	85	7	8	-	-	9	9	4000
	Guernsey ...	1020.5	+12	WNW	2	id.	50	85	7	6	-	-	10	10	1500
6	Pembroke ...	1019.5	+8	WNW	3	bc	49	95	8	8	7	9	4.6	4.6	2500
7	Holyhead ...	1018.4	+22	W'N	2	c	50	85	8	2	-	2	Tr.	9	2500
	Chester (Sealand)	1017.9	+18	WNW	4	c	48	85	7	5	-	6	4.6	7.8	1500
8	L'pool (Bidston)	1017.6	+20	W'S	5	bc	46	85	8	5	-	2	2.3	4.6	2500
9	Harrogate ...	1015.1	+26	SSW	3	bc	47	85	8	3	-	2	2.3	4.6	2500
10	Spurn Head ...	1014.1	+2	W	3	m.	47	95	5	5	3	-	2.3	7.8	800
	Tynemouth ...	1012.7	+16	W	3	bc	49	75	6	2	-	1	2.3	4.6	2500
11	Inchkeith ...	1012.3	+20	WSW	3	bc	45	75	8	1	8	1	1	2.3	4000
	Leuchars ...	1011.9	+22	WSW	3	b	44	85	6	1	-	-	Tr.	Tr.	4000
12	Renfrew ...	1014.6	+24	WNW	4	bc	49	75	8	8	-	1	4.6	4.6	2500
	Eskdalemuir ...	1014.3	+34	WNW	5	bc	45	65	8	1	-	1	2.3	4.6	2500
13A	Tiree	1013.2	+22	W'S	4	cjp	48	75	8	3	-	6	4.6	7.8	2500
13B	Stornoway ...	1009.4	+12	W	3	bc	45	85	8	3	6	-	Tr.	2.3	4000
15	Dalwhinnie ...	1012.0	+16	WNW	5	bc	41	75	8	5	-	-	4.6	4.6	4000
	Aberdeen ...	1010.0	+16	WNW	2	b	46	75	8	-	3	-	0	Tr.	-
	Wick	1007.7	+16	W	3	bc	42	85	8	8	4	8	2.3	4.6	2500
16	Lerwick ...	1006.0	-10	S	3	rr	41	95	7	6	2	-	4.6	10	1500
17	Blacksod Point	1017.8	+18	W	2	bc	49	75	7	-	-	-	0	4.6	-
18	Malin Head ...	1015.3	+16	WSW	4	cjp.	47	85	7	9	-	9	2.3	7.8	1500
	Aldergrove ...	1017.2	+16	S'W	3	c	47	85	7	5	-	-	Tr.	9	2500
	Donaghadee ...	1016.1	+16	WSW	2	bc	48	85	7	7	-	-	4.6	4.6	4000
19	Birr Castle ...	1019.5	+14	SW	1	c	48	85	8	1	-	2	1	7.8	4000
20	Valentia Obsy.	1020.1	-2	S'W	2	bc	50	85	8	1	3	9	1	4.6	1500
	Roches Point...	1020.9	+14	N	1	bc	49	75	8	5	-	9	1	4.6	1500

OBSERVATIONS at 18h. G.M.T. 20th JAN.

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	+20	-	0	bc	48	85	5	5	-	-	4.6	4.6	4000	1	*
	Croydon ...	1020.2	+18	NW'N	1	o/d	49	85	4	5	-	-	10	10	800	1	*
	S. Farnborough	1020.2	+20	WNW	1	c	48	85	6	5	-	-	10	10	2500	1	*
	Winchester ...	1020.8	+20	WNW	2	c	45	95	7	5	-	-	7.8	7.8	2500	1	*
	Boscombe Down	1020.8	+22	NW	1	bc	43	85	8	7	-	1	4.6	4.6	4000	1	*
	Calshot, S'thmtn	1020.4	+16	WNW	3	bc	47	95	7	5	-	-	4.6	4.6	1500	0	1
	Dungeness ...	*	*	NW	2	m.	*	*	5	5	-	*	10	10	1500	*	1
	Lympne ...	1019.9	+18	WNW	1	m.	46	95	5	5	-	-	10	10	1500	1	*
2	Shoeburyness	1019.9	+12	NW	2	c/d	48	95	6	5	-	-	9+	9+	1500	1	*
	Felixstowe ...	1019.5	+14	W'N	1	m	47	95	4	5	-	-	10	10	800	1	1
	Gorleston ...	1017.9	+10	W'N	2	bc	47	95	6	5	1	-	2.3	4.6	1500	0	1
	Cranwell ...	1019.5	+22	W'N	3	b	41	85	6	-	3	-	0	1	-	1	*
3	Cardington ...	1020.1	+20	NW'W	3	bc	44	85	7	5	-	-	4.6	4.6	4000	1	*
	Birmingham ...	1020.7	+20	NNW	2	bc	44	85	6	-	3	1	0	2.3	-	1	*
	Upper Heyford	1020.9	+22	SW	2	bc	46	75	7	5	-	-	4.6	4.6	2500	1	*
	Leafield ...	1020.5	+20	NW'W	1	bc	44	85	8	4	-	-	4.6	4.6	4000	1	*
4	Ross-on-Wye ...	1020.6	+16	W'S	1	b	44	75	9	5	-	1	Tr.	Tr.	4000	1	*
5	Portland Bill...	1020.9	+12	W'N	3	bc	46	85	7	4	-	-	2.3	2.3	1500	1	3
	Plymouth ...	1021.8	+12	N	1	c	49	75	7	5	-	-	9+	9+	2500	1	1
	Falmouth ...	1022.6	+4	-	0	c	48	85	7	5	-	-	7.8	7.8	4000	0	0
	Scilly (St. Mary's)	1021.7	-2	S	2	c	47	95	8	5	-	-	9	9	4000	0	1
	Guernsey ...	1022.7	+18	-	0	o	50	85	7	5	-	-	10	10	1500	0	3
6	Pembroke ...	1020.9	+6	NW	2	b	45	95	8	1	-	8	Tr.	1	2500	1	2
7	Holyhead ...	1019.6	+8	SW'W	2	m	44	95	4	-	-	2	0	4.6	-	1	0
	Chester (Sealand)	1020.2	+14	WNW	1	m.	40	95	6	-	-	8	0	2.3	-	1	*
8	L'pool (Bidston)	1020.1	+12	WSW	3	bc	43	85	7	5	-	2	1	2.3	2500	0	*
9	Harrogate ...	1019.1	+20	-	0	b	41	95	7	-	-	1	0	1	-	1	*
10	Spurn Head ...	1018.0	+14	WNW	2	bc	42	95	6	5	1	-	2.3	2.3	1500	0	3
	Tynemouth ...	1016.7	+20	WNW	1	bc	43	75	6	5	-	-	2.3	2.3	800	1	2
11	Inchkeith ...	1015.7	+14	WSW	3	bc	42	85	7	5	-	-	2.3	2.3	1500	0	1
	Leuchars ...	1015.9	+22	WSW	3	bc	36	85	8	-	3	1	0	2.3	-	1	*
12	Renfrew ...	1017.0	+16	W	2	bc	41	85	7	8	-	1	2.3	4.6	2500	1	*
	Eskdalemuir ...	1018.2	+14	NW	1	c	41	85	8	5	-	-	7.8	7.8	2500	1	*
13A	Tiree	1014.8	+8	SW'S	2	bc	40	95	8	5	7	8	Tr.	2.3	2500	0	2
13B	Stornoway ...	1012.1	+18	S	1	c	42	86	8	4	-	-	9	9	4000	1	1
15	Dalwhinnie ...	1015.4	+18	W	4	bc	39	75	8	5	-	-	4.6	4.6	2500	1	*
	Aberdeen ...	1015.1	+30	WNW	1	b	40	75	8	-	-	1	0	Tr.	-	1	1
	Wick	1012.3	+24	WSW	2	bc	38	85	8	5	4	5	2.3	4.6	2500	1	2
16	Lerwick ...	1008.3	+14	W'S	2	bc/pr	42	85	7	8	-	-	4.6	4.6	1500	1	*
17	Blacksod Point	1015.8	-8	S	4	c	48	85	6	5	-	-	10	10	220	0	3
18	Malin Head ...	1016.1	+4	SSW	2	bc	43	85	7	4	-	9	2.3	2.3	4000	0	2
	Aldergrove ...	1018.3	+2	SSE	3	bc	41	95	7	-	7	8	0	4.6	-	1	*
	Donaghadee ...	1017.7	+6	W	2	bc	42	85	6	5	-	-	4.6	4.6	1500	0	1
19	Birr Castle ...	1019.4	-2	S	1	b	41	95	7	-	3	-	0	1	-	1	*
20	Valentia Obsy.	1018.3	-10	SE'S	4	c	47	85	8	5	-	-	7.8	7.8	2500	1	3
	Roches Point...	1020.0	-2	SE	2	bc	45	95	8	5	-	-	2.3	2.3	1500	0	1

PAST 24 HOURS.

Stations.	Weather. 7h.–13h. 20th (37)	13h.–18h. 20th (38)	18h. 20th to 1h. 21st (39)	1h.–7h. 21st (40)
London (Kew)...	cofom.	cm.	bfe	bcfxcfw
Croydon ...	com.	ocmod.	ombffe	bffm.c
S. Farnborough	oDDddm	ocd.pc	cbFcf	cfe
Winchester ...	offc	cm.bc	bccbc	bcncff
Boscombe Down	cocm.	cbc	bcoffe	offe
Calshot, S'thmtn	od.m.c	cm.c	cbcbbcbcm	bwm.cm.
Dungeness ...	f	o	*	f-m
Lympne ...	odfcm.	cm.	cm.bbmw	bfmwomx
Shoeburyness	com.	cdd.m	cm.bm	bfffFx
Felixstowe ...	oddfomcm	cmcd	omc	bFx
Gorleston ...	orFcm	cm.m	bcm.m.	bcm.m.x
Cranwell ...	cm.cm	cm.b	bm.f	bfbcfx
Cardington ...	om.	or.bc	bcc	cmfm.x
Birmingham ...	bcpd.r.	bc	bcb	bbcc
Upper Heyford	crr.moc	cbcmw	bcwbm	bbcbfe
Leafield ...	ofc	cbc	b	bcmc
Ross-on-Wye ...	omcbcc	cb	bm	bmxcm
Portland Bill...	c	cbc	bbcz.	bcc
Plymouth ...	odmcbc	c	c.b	b.c
Falmouth ...	c	c	co	om.r.q
Scilly (St. Mary's)	cbcc	c	cir.	cirif
Guernsey ...	ocid.	o	o	oco
Pembroke ...	bccbc	bcb	bm.bc	bccq
Holyhead ...	cbcc⊕	cbcm.	bcmbwm.	bmc
Chester (Sealand)	ddm.c	bcbm.	bm.	bmxc
L'pool (Bidston)	dfcbc	bcccb	b	bbccc
Harrogate ...	d.cbc	bcb	b	OFF
Spurn Head ...	ofcmc	cbc	bcmw	bcmx3
Tynemouth ...	oifbc	bc	bc	bc
Inchkeith ...	oir.mmcbc	bc	bc	bcc
Leuchars ...	orfocbm.	bm.bc	bcx	bccxm
Renfrew ...	bc	bc	bcmcm	cm.
Eskdalemuir ...	ormcbc	bccbc	bcprb	bbcom.
Tiree	bcjp	bc	bcc	c
Stornoway ...	bcPR	bcc	c	cp.r
Dalwhinnie ...	ipr bc	prbc	bc	bc
Aberdeen ...	oriRmb	b	b3.	bcm.
Wick	crrbc	bc	bc	bc
Lerwick ...	cor.r.	or.r.bcpr	bcp.r	bcc
Blacksod Point	bc	c	idc	rr
Malin Head ...	bcc	cp.bc	bcc	c
Aldergrove ...	bbcc⊕	cbc	bcwcw	cwc
Donaghadee ...	bc	bcm.	bbc	bcc
Birr Castle ...	c	cbcb	bbcc	cor.c
Valentia Obsy.	bbc	bcc	cir.crr	cir.r.r.
Roches Point...	bc	bcw	bcwbw	bwcrr

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.
m, mist, ,, 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

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

<, less than (for cloud height).

⊕, solar halo. ◐, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

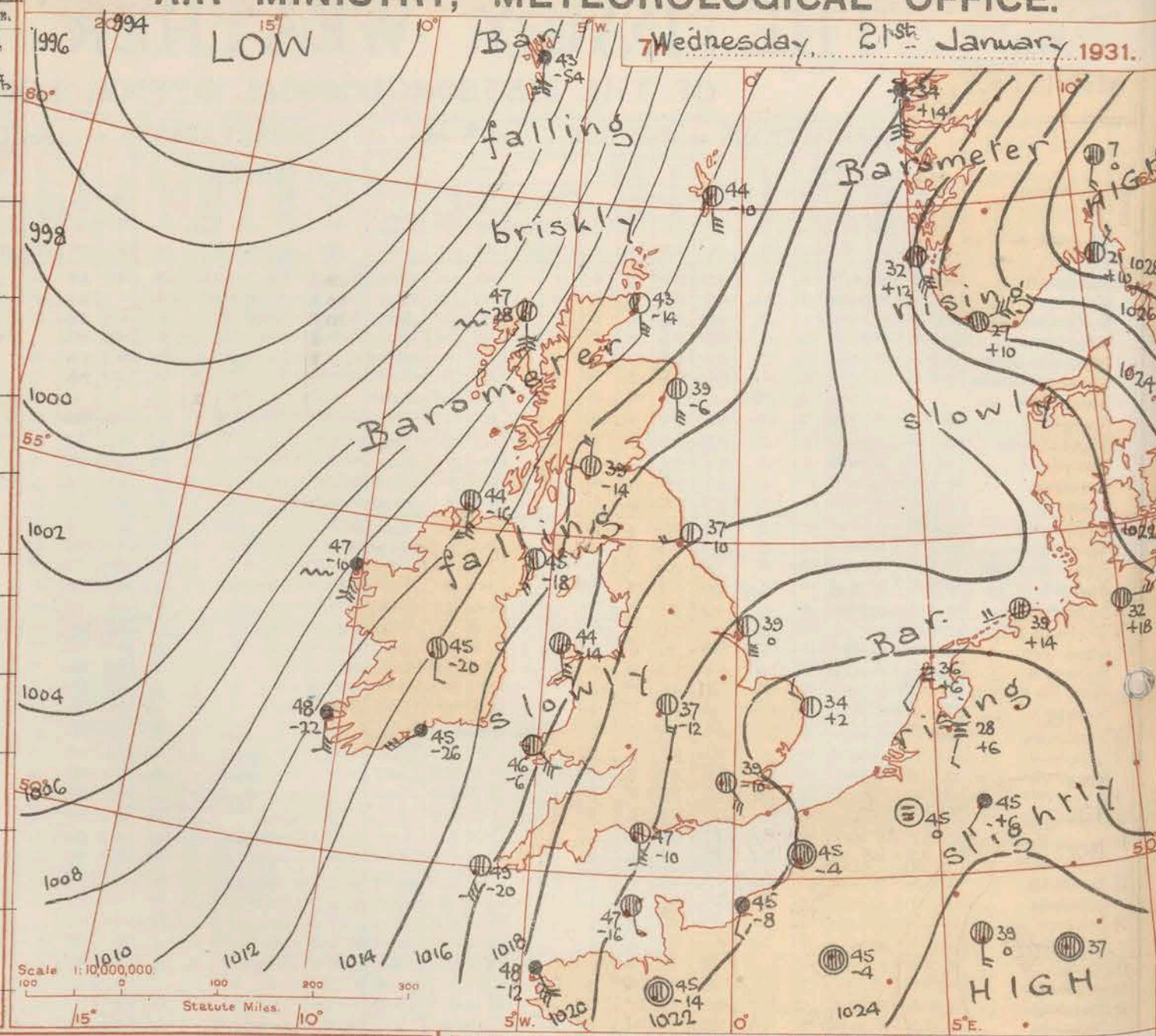
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for Tuesday, 20th January 1931.

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.	omo	o	45	49	1	-	0.0
	Bournemouth	cbc	cbc	46	51	2	-	0.5
	Ventnor ...	orcfo	ocu	46	50	6	-	0.3
	Southsea ...	o	o	46	51	3	-	0.0
	Bognor Regis	oc	c	45	51	4	-	0.0
	Littlehampton	omc	cmc	44	52	3	-	0.3
	Worthing ...	od	o	45	50	4	Trace	0.0
	Brighton ...	o	oc	45	50	4	-	0.0
	Eastbourne†	doco	oc	46	50	4	0.4	0.6
	Hastings† ...	fdo	mo	45	49	2	0.2	0.0
	Folkestone ...	ofdf	ofom	45	50	0.5	0.4	0.0
	Dover... ...	moc	fofom	45	50	Trace	-	0.1
	Deal	obcc	co	45	51	-	-	1.0
	Ramsgate ...	cbcc	c	45	49	1	-	0.4
	Margate ...	cbc	bcc	45	49	0.6	-	1.2
2	Southend ...	com	ofd	44	48	0.6	Trace	0.0
	Maldon ...	c	cdo	45	49	0.5	Trace	0.2
	Clacton-on-Sea	ogmec	cogm	43	48	1	-	0.4
	Dovercourt ...	doc	oc	45	49	Trace	-	0.0
	Lowestoft ...	c	c	39	49	0.1	-	0.6
	Skegness ...	bfc	cbom	38	50	1	-	1.9
	Mablethorpe	omcbc	mbcm	37	51	0.5	-	3.7
	Cleethorpes ...	cmbc	bc	37	50	0.4	-	1.3
3	Leamington S.	orc	c	42	50	1	Trace	1.0
4	Cheltenham†	omc	cbcc	45	51	0.5	-	1.8
5	Bath	mc	cbc	47	52	1	-	1.9
	Weymouth ...	mbcc	cb	47	51	2	-	1.6
	Jersey ...	bcdc	c	47	50	1	Trace	0.2
	Torquay ...	bc	cbccm	47	51	0.3	-	1.2
	Penzance ...	cb	bc	47	54	2	-	4.5
	St. Ives ...	c	c	47	50	1	-	2.7
	Bude	cbc	cd	42	50	3	Trace	0.4
	Ilfracombe ...	c	bc	47	49	3	0.1	?
6	Aberystwyth	ocdo	cbc	44	48	4	-	3.5
7	Llandudno ...	cbc	b	46	49	3	-	3.7
	Colwyn Bay...	ob	b	47	50	3	-	2.8
	Rhyl	cbc	bcb	46	49	2	-	3.0
8	Wallasey ...	cbc	bcb	44	47	2	-	3.9
	Southport‖ ...	cbcb	bcb	44	47	3	Trace	4.0
	Blackpool ...	cbc	bc	42	48	4	-	5.2
	Morecambe ...	rdpbc	cebbc	41	46	5	0.3	2.6
9	Ilkley... ...	od	bc	38	49	1	Trace	1.8
10	Berwick-on-T.	ocbc	bc	34	47	0.4	-	4.3
11	Dunbar ...	crbm	bm	38	47	1	-	4.5
12	Douglas ...	bc,cb	bc	44	47	6	-	4.2

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



Barometer. Isobars are drawn for intervals of two millibars.
Wind. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
Temperature is given in degrees F.
Weather Symbols :—
○ Clear sky. ◐ Sky less than 5/10 clouded. ◐ Sky 5/10 to 8/10 clouded. ◐ Sky 8/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. ⚡ Thunderstorm.
Sea Disturbance. ~ Rough. ≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 21st Jan. 1931.

Districts.	Forecasts
1. S.E. England 2. E. England...	Light or moderate southerly wind; cloudy, occasional slight rain or drizzle; rather mild.
3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Moderate or fresh southerly wind, veering later; dull, some rain, improving tomorrow; rather mild.
10. N.E. England	As 1 - 3.
11. S.E. Scotland 12. S.W. Scotland & Isle of Man	As 4 - 9.
13. A. W. Scotld. B. N.W. Scotland.	Strong southerly wind, veering and moderating; rainy at first, showers and bright intervals later; mild, then slightly colder.
14. Mid-Scotland 15. N.E. Scotland	As 4 - 9.
16. Orkneys and Shetlands.	Strong southerly wind, probably a gale at times, moderating later; dull, some rain; rather mild.
17. N.W. Ireland	As 13.
18. N.E. Ireland 19. S.E. Ireland 20. S.W Ireland	Moderate or fresh southerly wind, veering west or northwest later; rain at first, then fair apart from local showers; mild, then slightly colder.

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

GENERAL INFERENCE.

A depression south of Iceland, together with an associated trough off our western coasts, will move eastwards and probably fill up before long. Rain will occur generally but will probably be slight in the Southeast. An improvement will spread eastward later.

FURTHER OUTLOOK.

Unsettled and mild after some temporary improvement.

Time of Issue of Gale Warning.

South Cone at 0815 on 21st in 13B. 16.

Forecasts issued at 0940 G.M.T.

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

WEDNESDAY, 21st JANUARY 1931.

No. 25262

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

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	1022.8	+10	SW	2	f	34	95	3	-	-	-	0	0	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	1021.8	+4	-	0	bm	45	95	4	-	-	-	0	0	-
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1022.3	+10	N	2	bf	40	95	3	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	1021.0	+8	NW'N	3	bc	39	95	6	5	-	-	4.6	4.6	1500
	Cranwell	240	1021.8	+6	W	2	bf	34	95	3	-	-	-	0	0	-
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1021.6	0	SE	3	bc	43	95	6	5	4	-	2.3	4.6	1500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	1021.6	+8	SSE	4	c	48	75	8	5	-	7	4.6	10	4000
	Scilly (St. Mary's)	163	1019.6	+16	S'E	4	16	47	95	6	6	-	-	7.8	7.8	2500
	Guernsey	175	1022.8	0	-	0	0	47	75	7	5	-	-	10	10	1500
6	Pembroke	142	1021.2	-6	S	3	bc	47	95	7	1	-	-	2.3	2.3	2500
7	Holyhead	26	1019.0	-6	S	3	b	43	95	6	5	-	-	Tr.	Tr.	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1020.7	+2	WNW	1	bom	38	95	4	5	-	-	4.6	4.6	220
	Tynemouth	67	1019.8	+6	W	2	bc	38	95	6	5	-	-	2.3	2.3	800
11	Inchkeith	190	1017.5	+8	WSW	2	bc	39	95	7	5	-	-	4.6	4.6	1500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1010.4	-8	S	4	c	46	95	8	4	-	-	9	9	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1014.4	+8	SSW	3	bc	40	85	8	5	1	-	2.3	4.6	2500
16	Lerwick	54	1012.7	+16	W'S	1	bc	42	95	7	8	-	-	4.6	4.6	1500
17	Blacksod Point	18	1011.6	-20	S	6	c	48	85	7	8	-	-	7.8	7.8	4000
18	Malin Head	52	1013.0	-6	SSE	5	c	45	75	7	5	1	-	7.8	9+	4000
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1014.7	-14	S	3	o/d	47	95	6	6	-	-	10	10	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1020.9	-10	SE	1	of	37	95	1	5	-	-	10	10	2500	1	*
	Croydon	1021.0	-10	SE'S	3	cm	39	95	5	5	7	-	4.6	9	1500	1	*
	S. Farnborough	1020.7	-8	SE'S	2	of	39	95	3	5	-	-	10	10	4000	1	*
	Winchester	1020.5	-10	ESE	1	cf	37	95	2	5	-	-	9+	9+	2500	1	*
	Boscombe Down	1020.7	-10	SE	1	of	36	95	2	5	-	-	10	10	800	1	*
	Calshot (S'thmtn)	1020.6	-10	SSE	2	c	42	95	6	5	2	-	7.8	9+	1500	1	0
	Dungeness	*	*	SE	2	om	*	*	4	5	-	*	10	10	1500	*	1
	Lympne	1021.6	-12	E	3	cm	41	95	4	5	3	-	7.8	9+	1500	1	*
2	Shoeburyness	1022.7	-10	-	0	F	28	95	1	-	-	-	10	10	-	4	*
	Felixstowe	1022.3	0	-	0	bf	28	95	2	-	-	-	0	0	-	4	0
	Gorleston	1022.3	+2	NW'W	1	bc	34	85	5	-	3	-	0	2.3	-	0	1
	Cranwell	1020.6	-6	SSE	2	bcf	31	95	3	-	3	5	0	4.6	-	4	*
3	Cardington	1021.3	-8	SSE	2	c	29	95	5	5	-	-	9+	9+	1500	1	*
	Birmingham	1019.9	-12	S	2	c	37	95	6	5	-	-	9+	9+	4000	1	*
	Upper Heyford	1020.7	-12	SE	2	of	35	95	3	5	-	-	10	10	800	1	*
	Leafield	1019.5	-10	SE'S	3	om	37	95	4	5	-	-	10	10	2500	1	*
4	Ross-on-Wye	1019.0	-12	SSW	1	cm	34	95	4	5	-	-	9+	9+	4000	1	*
5	Portland Bill	1019.2	-10	S	4	c	47	85	8	4	7	-	7.8	9	2500	1	3
	Plymouth	1018.4	-20	SSE	3	o	47	95	8	5	-	-	10	10	1500	1	2
	Falmouth	1017.4	-22	SSE	5	cc	48	95	6	6	-	-	10	10	2500	1	2
	Scilly (St. Mary's)	1015.8	-20	SSW	4	c	49	95	7	5	-	-	9+	9+	4000	1	2
	Guernsey	1020.6	-16	SSE	1	o	47	85	7	5	-	-	10	10	2500	0	2
6	Pembroke	1015.8	-6	SE	4	cg	46	95	7	8	2	-	4.6	10	1500	1	2
7	Holyhead	1015.6	-14	S'E	4	c	44	95	7	5	2	-	2.3	10	4000	1	2
	Chester (Sealand)	1018.7	-18	SE	3	cm	35	95	6	5	-	-	9	9	2500	0	*
8	L'pool (Bidston)	1017.6	-10	SE'E	3	o	37	85	7	5	-	-	10	10	2500	0	*
9	Harrogate	1019.7	0	S	1	F	33	95	1	5	-	-	10	10	450	1	*
10	Spurn Head	1020.2	0	S	3	bcm	39	95	5	5	-	-	4.6	4.6	800	5	3
	Tynemouth	1017.9	-10	WSW	2	bc	37	95	6	2	-	-	4.6	4.6	2500	1	2
11	Inchkeith	1015.8	-10	NE	1	c	41	85	8	5	7	-	4.6	7.8	1500	0	0
	Leuchars	1016.3	-8	ESE	1	cm	33	95	4	5	1	-	1	9+	5700	4	*
12	Renfrew	1015.5	-14	NNE	2	c	39	95	6	5	1	-	4.6	9+	2500	1	*
	Eskdalemuir	1016.9	-16	SSW	2	o	37	95	6	5	-	-	10	10	450	1	*
13A	Tiree	1008.6	-26	S'E	6	c	44	95	7	5	2	-	7.8	9+	1500	0	4
13B	Stornoway	1005.8	-28	S	6	c	47	85	7	4	-	-	9	9	4000	1	4
15	Dalwhinnie	1013.6	-18	NSW	6	bc	38	75	8	5	-	-	4.6	4.6	2500	0	*
	Aberdeen	1015.2	-6	S	3	c	39	95	5	-	2	-	0	10	-	1	1
	Wick	1011.6	-14	S	3	bc	43	85	8	5	1	-	4.6	4.6	2500	1	2
16	Lerwick	1012.0	-10	S	3	c	44	85	8	5	2	-	4.6	9+	1500	1	*
17	Blacksod Point	1008.6	-10	S	5	rr	47	95	6	6	-	-	10	10	<150	1	4
18	Malin Head	1009.2	-16	S	5	c	44	85	7	5	-	-	9	9	4000	0	2
	Aldergrove	1013.0	-16	SSE	3	c	43	85	7	5	2	-	4.6	10	4000	1	*
	Donaghadee	1013.2	-18	SSW	2	c	45	85	7	5	-	-	7.8	7.8	1500	0	0
19	Birr Castle	1012.1	-20	S	1	c	46	95	8	-	7	-	0	10	-	1	*
20	Valentia Obsy.†	1010.1	-22	SSE	4	cc	48	95	7	6	-	-	10	10	1500	1	3
	Roches Point	1013.3	-26	SW	3	rr	45	95	7	6	-	-	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 20.4 Hrs (36)
1	London (Kew)	51	33	28	-	0.1	0.0
	Croydon	50	34	28	Tr.	-	0.0
	S. Farnborough	51	33	26	0.2	Tr	0.0
	Winchester	50	34	31	-	-	0.0
	Boscombe Down	49	31	27	-	Tr.	*
	Calshot (S'thmtn)	51	38	30	0.1	Tr.	0.0
	Dungeness	50	34	*	0.1	Tr	*
	Lympne	48	34	26	0.2	Tr	0.0
2	Shoeburyness	49	26	22	0.1	-	0.0
	Felixstowe	48	27	24	0.1	-	0.2
	Gorleston	50	32	29	0.2	-	0.0
	Cranwell	50	30	24	-	-	0.9
3	Cardington	50	26	25	0.1	-	0.3
	Birmingham	48	36	25	0.1	-	0.6
	Upper Heyford	60	34	24	0.1	-	*
	Leafield	51	35	21	-	-	1.8
4	Ross-on-Wye	51	30	22	-	-	1.4
5	Portland Bill	49	42	*	-	-	*
	Plymouth	51	40	39	Tr.	-	0.6
	Falmouth	51	47	*	-	0.6	1.0
	Scilly (St. Mary's)	52	46	*	-	1	4.1
	Guernsey	50	46	39	Tr.	-	0.0
6	Pembroke	50	42	*	-	-	4.1
7	Holyhead	50	40	32	-	Tr.	4.8
	Chester (Sealand)	50	31	25	0.1	-	3.2
8	L'pool (Bidston)	47	35	34	0.3	-	3.7
9	Harrogate	48	33	29	Tr.	-	3.2
10	Spurn Head	47	36	*	Tr.	Tr.	0.7
	Tynemouth	49	36	29	-	-	*
11	Inchkeith	47	39	33	1	-	4.6
	Leuchars	47	32	28	2	-	3.7
12	Renfrew	49	34	29	-	-	4.8
	Eskdalemuir	45	31	27	1	0.2	4.3
13A	Tiree	48	31	30	-	-	3.2
13B	Stornoway	46	40	*	0.4	0.1	3.7
15	Dalwhinnie	41	33	*	2	-	4.0
	Aberdeen	46	33	28	5	-	3.7
	Wick	43	35	*	3	-	*
16	Lerwick	43	40	*	4	Tr.	0.0
17	Blacksod Point	49	45	*	-	3	*
18	Malin Head	47	41	*	Tr.	-	5.6
	Aldergrove	47	38	35	Tr.	Tr.	2.9
	Donaghadee	49	39	*	-	-	
19	Birr Castle	50	39	33	-	Tr.	4.5
20	Valentia Obsy.†	52	46	44	-	5	4.8
	Roches Point	50	43	*	Tr.	5	*

LONDON OBSERVATIONS.

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

	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	cofom	cm	bFefw	51	33	28	-	0.1	0.0	*	*	1
Croydon	217	com	ocmod	ombffem	50	34	28	Tr.	-	0.0	*	*	4
Greenwich (Royal Observatory)	149	ofm	odcm	cbmcffe	50	31	21	Tr	Tr.	0.0	86	100	3
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park)	27	*	*	*	50	35	29	Trace		0.0	89	87	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	o	odc	*	48	35	30	Tr.	-	*	*	97	*
Kensington Palace	80	odr	odr	*	50	36	26	0.2	Tr.	*	At 18h. 85	94	*
Hampstead Observatory	450	ombbc	bm	*	46	33	24	0.1	0.1	0.0	*	100	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time	Min.	Time	Kew Observatory Max.	Time	Min.	Time
1.2	4h 21st	0.6	17h 20th	1.0	23h 20th	0.1	17h 20th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 20th JAN. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 21st JAN. 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	1022.1	WSW	1	c	48	1023.7	SW	1	o/d	48	x	46	-	0.2
Brussels	1020.0	WSW	2	o	45	1022.8	-	0	F	45	46	45	1	0.3
Berlin						1023.9	E	2	is	30	x	30		0.2
Zürich	1025.2	NW	1	d	41	1027.2	S	1	om	36	43	34	Tr	-
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.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 22nd January 1931.

No. 25263

OBSERVATIONS at 13h. G.M.T. 21st Jan

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)	°F. Temp. (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)...	1019.6	-18	S	3	c	45	95	5	5	-	-	10	10	2500
	Croydon ...	1019.7	-14	S'W	3	m.	45	85	6	5	2	-	9	10	800
	S. Farnborough	1018.9	-16	S'E	3	c	46	95	7	5	-	-	10	10	2500
	Winchester ...	1018.5	-18	S	4	c	46	85	7	5	2	-	9+	10	1500
	Boscombe Down	1018.1	-20	SSE	4	c	46	95	8	5	2	-	7.8	10	1500
	Calshot, S'thmtn	1019.0	-14	SE'S	4	c	46	85	7	5	2	-	9+	10	2500
	Dungeness ...	*	*	WSW	2	c	*	*	7	8	-	*	10	10	2500
	Lympne ...	1020.4	-10	S'W	3	c/d	45	95	7	6	2	-	9	10	1500
2	Shoeburyness	1020.8	-10	SSE	1	c	45	95	6	5	6	-	7.8	9+	4000
	Felixstowe ...	1021.1	-8	SSE	2	f	43	95	3	5	-	-	10	10	<150
	Gorleston ...	1021.2	-6	SSE	2	c	42	95	6	4	-	-	10	10	2500
	Cranwell ...	1018.3	-18	SE'S	2	f	36	95	3	5	-	-	10	10	<150
3	Cardington ...	1019.2	-16	SSE	3	m	42	95	4	5	-	-	10	10	1500
	Birmingham ...	1017.2	-16	S	3	m	42	95	4	5	-	-	9	9	2500
	Upper Heyford	1018.2	-22	SSE	4	m.	44	95	6	5	-	-	10	10	1500
	Leafield ...	1017.4	-14	SSE	3	c	42	95	5	5	-	-	10	10	800
4	Ross-on-Wye ...	1016.4	-20	S	3	c	45	85	6	6	1	-	9	10	1500
5	Portland Bill...	1017.3	-16	S'W	4	dd	48	95	5	5	-	-	10	10	800
	Plymouth ...	1015.7	-10	SSW	4	ir.	49	95	7	6	2	-	7.8	10	450
	Falmouth ...	1015.6	-16	S'W	6	r.r.	49	95	6	6	-	-	10	10	2500
	Scilly (St. Mary's)	1013.5	-10	SSW	5	rr	50	95	6	5	-	-	10	10	4000
	Guernsey ...	1019.0	-16	SSE	3	o	48	85	7	5	-	-	10	10	1500
6	Pembroke ...	1012.4	-16	S	3	df	48	95	2	5	-	-	10	10	<150
7	Holyhead ...	1013.3	-18	S	4	c	46	95	7	5	1	8	2.3	10	1500
	Chester (Sealand)	1016.2	-20	SSE	3	m.	41	95	5	5	-	-	10	10	1500
8	L'pool (Bidston)	1015.6	-10	ESE	3	m.	40	85	5	5	2	-	4.6	10	2500
9	Harrogate ...	1017.6	-10	SE'S	1	f	36	95	2	5	-	-	10	10	<150
10	Spurn Head ...	1018.3	-6	S	3	m	38	95	4	5	3	-	4.6	10	220
	Tynemouth ...	1016.4	-16	SSW	2	f	39	85	3	6	-	-	10	10	1500
11	Inchkeith ...	1013.5	-14	S	1	c	42	85	7	5	2	-	2.3	10	1500
	Leuchars ...	1013.9	-12	E	1	c	41	85	6	5	2	-	2.3	10	4000
12	Renfrew ...	1012.1	-20	S	4	ir	44	95	6	6	2	-	7.8	10	1500
	Eskdalemuir ...	1013.9	-14	S'W	2	c	39	95	6	5	-	-	10	10	1500
13A	Tiree	1007.8	-2	S'W	4	rr	45	95	6	5	7	-	9	9+	1500
13B	Stornoway ...	1004.3	-2	SSW	5	c	45	95	6	6	7	-	7.8	9	4000
15	Dalwhinnie ...	1011.5	-16	SSE	5	pr	39	85	8	8	-	-	7.8	7.8	4000
	Aberdeen ...	1012.3	-16	S	4	c	42	85	6	6	7	-	4.6	10	800
	Wick	1009.2	-12	S	5	c	43	85	8	8	2	-	7.8	10	1500
16	Lerwick ...	1009.9	-20	S'E	6	c	45	85	7	5	2	-	4.6	10	1500
17	Blacksod Point	1009.4	0	WSW	3	bc	48	75	8	-	7	2	0	4.6	-
18	Malin Head ...	1008.6	0	SSW	4	id.	46	85	6	6	-	-	9+	9+	1500
	Aldergrove ...	1011.1	-10	S'E	4	c/d	46	95	7	5	7	-	7.8	9+	800
	Donaghadee ...	1011.4	-14	SSW	2	ir.	47	95	7	5	-	-	9	9	1500
19	Birr Castle ...	1010.7	-8	S	1	o/r	47	95	7	6	-	-	10	10	2500
20	Valentia Obsy.	1010.0	+2	~~E'S~~	3	c/r	47	95	7	5	1	-	7.8	9+	~~1500~~ 1200
	Roches Point...	1010.0	-20	SE	4	id	49	95	6	5	-	-	10	10	800

OBSERVATIONS at 18h. G.M.T. 21st Jan

District	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)	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	-12	S	3	c	45	95	6	5	-	-	10	10	2500	1	*
	Croydon ...	1017.6	-12	S'E	4	m.	45	85	6	5	2	-	7-8	10	800	1	*
	S. Farnborough	1017.3	-8	S	3	c/d	45	95	6	5	-	-	10	10	800	1	*
	Winchester ...	1016.9	-6	S'W	4	dd	44	95	5	6	-	-	10	10	220	1	*
	Boscombe Down	1016.6	-8	S	4	dd	44	95	5	6	-	-	10	10	450	1	*
	Calshot, S'thmtn	1017.2	-8	SSE	3	dd	45	95	7	5	-	-	10	10	800	1	2
	Dungeness ...	*	*	S	4	o	*	*	7	5	-	*	10	10	2500	*	2
	Lympne ...	1018.5	-6	SSE	3	c	44	95	7	5	-	-	10	10	2500	1	*
2	Shoeburyness	1018.7	-12	S	2	c	43	95	7	5	-	-	7.8	7.8	4000	1	*
	Felixstowe ...	1019.0	-12	SE'S	3	c	43	95	5	5	-	-	10	10	2500	1	2
	Gorleston ...	1018.4	-10	S	3	o	44	95	6	6	-	-	10	10	1500	0	2
	Cranwell ...	1016.2	-14	SE'S	3	of	40	95	3	5	-	-	10	10	450	1	*
3	Cardington ...	1016.5	-12	S	3	f	44	95	6	5	-	-	10	10	1500	1	*
	Birmingham ...	1014.8	-12	S	3	dr	43	95	5	6	-	-	10	10	1500	1	*
	Upper Heyford	1016.4	-10	S	3	r.r.	44	95	6	6	-	-	10	10	800	1	*
	Leafield ...	1015.6	-10	S'E	4	dd	43	95	5	6	-	-	10	10	800	1	*
4	Ross-on-Wye ...	1014.2	-10	S'W	3	id.	47	95	6	6	-	-	10	10	1500	1	*
5	Portland Bill...	1015.7	-6	S	4	r.r.	48	95	8	4	-	-	10	10	1500	1	4
	Plymouth ...	1014.4	-10	SSE	4	rr	48	95	7	6	-	-	10	10	800	2	2
	Falmouth ...	1013.0	-12	SSW	5	rr	49	95	6	6	-	-	10	10	2500	1	3
	Scilly (St. Mary's)	1011.4	-4	S'W	5	dd	50	95	6	6	-	-	10	10	2500	1	3
	Guernsey ...	1017.6	-6	S	2	o	47	95	7	5	-	-	10	10	1500	0	3
6	Pembroke ...	1009.8	-10	SW	4	rr	49	95	5	5	-	-	10	10	800	1	3
7	Holyhead ...	1010.9	-16	S'E	4	r.r.	46	95	6	6	2	-	9	10	450	1	2
	Chester (Sealand)	1013.7	-16	SSE	3	r.r.	43	95	4	6	-	-	10	10	800	1	*
8	L'pool (Bidston)	1012.5	-12	ESE	4	r.r.	42	95	5	5	-	-	10	10	1500	1	*
9	Harrogate ...	1014.3	-10	SE'S	1	rf	39	95	3	5	-	-	10	10	<150	1	*
10	Spurn Head ...	1015.6	-6	S	4	f	41	95	3	5	-	-	10	10	<150	1	3
	Tynemouth ...	1013.6	-14	SSW	3	bc	40	95	5	5	-	-	4-6	4-6	1500	0	1
11	Inchkeith ...	1010.9	-12	S	2	c	43	85	7	5	2	-	2-3	9+	1500	0	0
	Leuchars ...	1011.4	-10	SSE	3	c	41	85	6	5	2	-	4-6	7-8	2500	1	*
12	Renfrew ...	1010.2	-10	S	3	c/d	44	95	5	5	2	-	9	10	1500	1	*
	Eskdalemuir ...	1011.0	-14	S'W	3	rr	39	95	6	6	-	-	10	10	220	1	*
13A	Tiree	1007.4	-2	SSW	3	bc	44	95	7	5	7	-	4-6	4-6	2500	0	3
13B	Stornoway ...	1005.3	+4	WSW	2	bc	42	95	8	3	6	1	2-3	4-6	4000	1	2
15	Dalwhinnie ...	1009.0	-12	SW	3	c	40	95	8	8	-	-	7-8	7-8	4000	1	*
	Aberdeen ...	1010.5	-10	SSW	3	c	42	95	6	6	2	-	4-6	10	1500	1	1
	Wick	1006.7	-8	S	5	c	44	85	8	8	2	-	4-6	9	1500	1	4
16	Lerwick ...	1006.7	-18	S	6	c	45	75	7	5	2	-	4-6	10	1500	0	*
17	Blacksod Point	1008.8	0	W	3	bc	45	75	7	5	-	-	4-6	4-6	2500	0	3
18	Malin Head ...	1008.2	-2	S	1	c	44	85	6	5	-	-	9+	9+	2500	0	1
	Aldergrove ...	1009.3	-12	SSE	3	c/r	45	95	7	5	2	-	4-6	10	800	1	*
	Donaghadee ...	1009.6	-10	S	1	ir.	45	95	6	5	-	-	10	10	800	1	0
19	Birr Castle ...	1009.6	-4	S	2	dd	45	95	6	6	-	-	10	10	2500	1	*
20	Valentia Obsy.	1011.5	+6	-	0	c	44	95	8	1	7	-	1	7-8	1500	1	3
	Roches Point...	1009.4	+6	NW	4	c	48	95	8	3	-	-	9	9	1500	0	4

PAST 24 HOURS.

Stations	Weather. 7h.–13h. 21st (37)	13h.–18h. 21st (38)	18h. 21st to 1h. 22nd (39)	1h.–7h. 22nd (40)
London (Kew)...	ofcm.	cm.	cm.prbc	cprcm.
Croydon ...	cmm.	cm.	cmidp	cmrrc
S. Farnborough	cfodc	cmd.	omdd	ordpm
Winchester ...	cffdmc	codam	oddfm.	om.
Boscombe Down	offecdm	coddm.	oddm	om.
Calshot, S'thmtn	cidm	coddmdd	oddmdm	oc
Dungeness ...	p	o	*	o
Lympne ...	ofcmd	c	com.	cmomm.
Shoeburyness	ffcm.	cm.	coid.	oidc
Felixstowe ...	bfxcff	ofcm.	cm.	cmrc
Gorleston ...	bccmm	commm	omc	c
Cranwell ...	bcfxf	cof	ofir.	orrir.
Cardington ...	cm.cm	cmcm.	cmrrc	cd.
Birmingham ...	cm	codd	odrdr.	or
Upper Heyford	cmfdm	cmrr	orrmr.	orrd.
Leafield ...	cffm	cod.	ordor	oir
Ross-on-Wye ...	cd.c	coid.	odor	rird.
Portland Bill...	cddm.	oddc	orro	o
Plymouth ...	coddm	corr	orrc	corr.
Falmouth ...	omrq	omrrq	orqm.	ormbcq
Scilly (St. Mary's)	corr	rrdd	ddrro	orbc
Guernsey ...	orro	oid.o	opro	odd
Pembroke ...	offidr	offdrr	rrifir	ircbc
Holyhead ...	c	r.r.	r.rr	cmb
Chester (Sealand)	cm.	r.r.m.	r.om	rr
L'pool (Bidston)	cmcm	c cr.r	or.rc	corrc
Harrogate ...	off	offr.	offd.d.	ocid.
Spurn Head ...	cm	cmofc	offdoir	orcr.
Tynemouth ...	bcoff	obcff	bcoirm	oir
Inchkeith ...	c	c	oir.r.r.	orrc
Leuchars ...	cxcm.	circm.	cm.	cprb
Renfrew ...	c, cir.	cridm	cir.r.	cr.bcc
Eskdalemuir ...	oc	cr.r	orrm	orrmbc
Tiree	cir.orR	ir.c bcw.	bcpr.	bcP
Stornoway ...	orr	cbc	bcpr.	bcpr.
Dalwhinnie ...	cpr	cpr	prc	cbc
Aberdeen ...	cmcrc	cz.	cr.orr	orrc
Wick	bcc	c	crrc	cbc
Lerwick ...	c	c	corrc	c
Blacksod Point	bc	bc	prqc	prqc
Malin Head ...	c	czzo	czbcbbc	bcpr.
Aldergrove ...	cr.d.	cir.	cddf	bccm.
Donaghadee ...	cir.	coirom.	oidc	cbcb
Birr Castle ...	corr.	oid	od.rcbc	bcbx
Valentia Obsy.	cir.id.circ	c	cbcbbc	bccp.
Roches Point...	oroid	oidc	c	cbc.

EXPLANATION OF FIGURES, LETTERS AND SYMBOLS.

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

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

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

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,

R, heavy rain. r_o, slight rain. rr, continuous rain.

<, less than (for cloud height).

⊕, solar halo. ☾, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

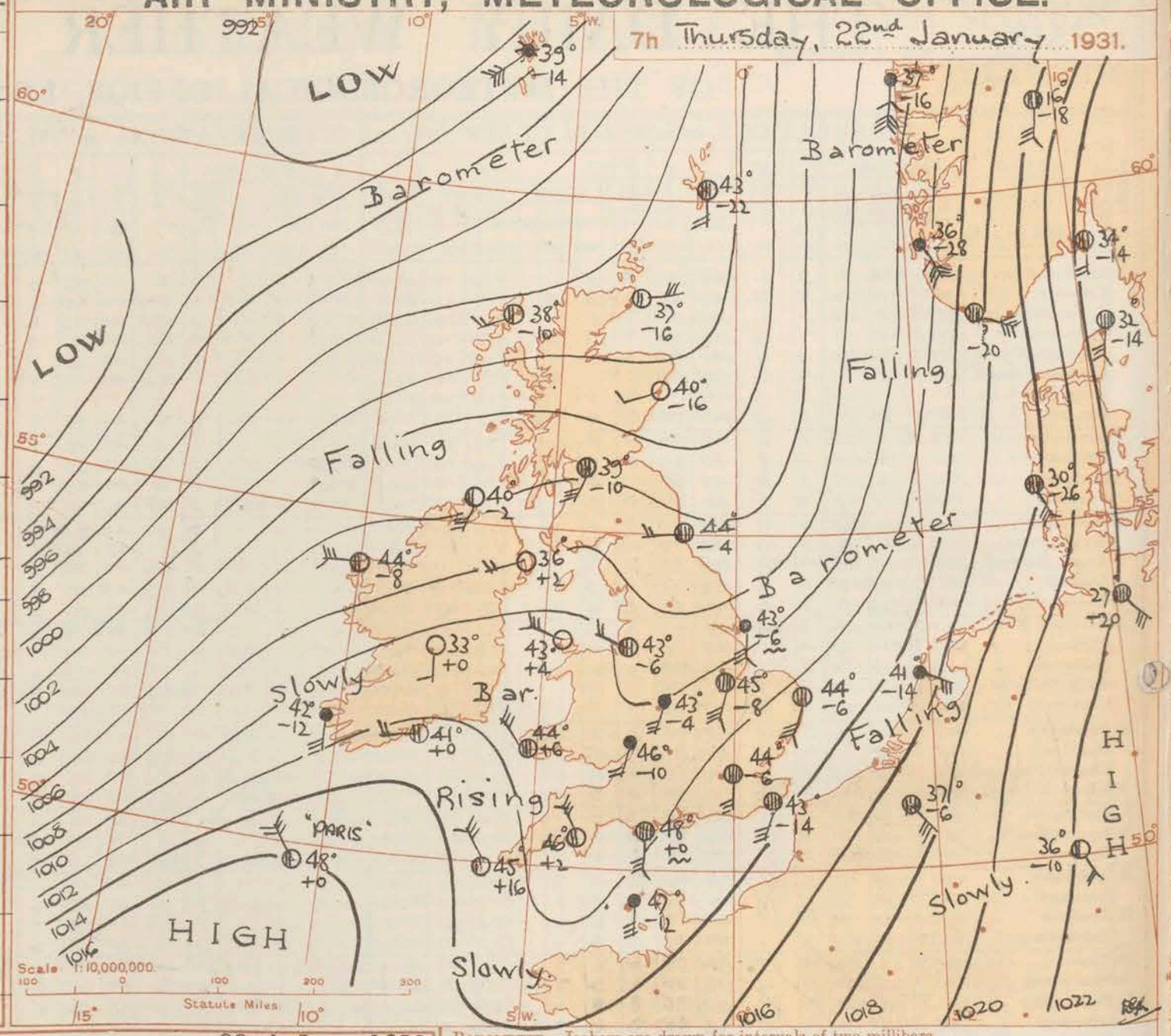
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for Wednesday, 21st January, 1931.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 20th to 9h. 21st	Temperature. Max. 9h.—17h. 21st	Rainfall. Night. 17h. 20th to 9h. 21st	Rainfall. Day. 9h.—17h. 21st	Sunshine. Sunrise to Sunset. 21st.
1	Tunbridge W.	opo	o	33	46	-	Trace	0.0
	Bournemouth	d	d	34	47	-	0.3	0.0
	Ventnor ...	ofou	oudfo	43	47	Trace	Trace	0.0
	Southsea ...	o	odm	39	47	-	0.2	0.0
	Bognor Regis	oid.	oid.	42	47	0.3	1	0.0
	Littlehampton	c	cd.c	40	46	-	0.2	0.0
	Worthing ...	o	o	42	46	Trace	-	0.0
	Brighton ...	oc	c	42	46	-	-	0.0
	Eastbourne†	od.	do	41	47	-	Trace	0.0
	Hastings† ..	cmo	o	42	49	0.3	-	0.0
	Folkestone ...	ofom	o m.	35	47	-	-	0.0
	Dover... ...	fmo	oc	33	46	Trace	-	0.0
	Deal	o	o	33	47	-	-	0.0
	Ramsgate ..	om	om	38	46	0.4	Trace	0.0
	Margate ...	c	c	36	47	0.3	-	0.0
2	Southend ...	ofem	om	35	44	Trace	Trace	0.0
	Maldon ...	sfoc	c	28	46	-	-	0.0
	Clacton-on-Sea	bccmc	c	34	43	-	-	0.0
	Dovercourt ...	sf	ocfbc	28	43	-	-	0.0
	Lowestoft ...	fco	om.	30	44	-	-	0.0
	Skegness ...	ofe	eom.	32	41	Trace	-	0.0
	Mablethorpe	ofsme	ome	29	41	-	-	0.0
	Cleethorpes ...	mc	co	30	39	-	-	0.0
3	Leamington S.	o	o	38	45	-	-	0.0
4	Cheltenham†	owmco	ocod.	34	48	-	Trace	0.0
5	Bath	c	cr.r.	33	48	Trace	0.5	0.0
	Weymouth ...	d.c	cidc	35	48	Trace	0.1	0.0
	Jersey ...	dc	co	46	47	Trace	-	0.0
	Torquay ...	omdp	od.psd	36	49	-	1	0.0
	Penzance ...	omr	rorr	48	52	4	10	0.0
	St. Ives ...	r	r	45	51	5	11	0.0
	Bude	oe	oer	43	50	1	0.4	0.0
	Ilfracombe ...	orr	rr	40	50	-	5	0.0
6	Aberystwyth	bcc	cdr	37	48	-	3	0.0
7	Llandudno ...	c	cr.	38	48	Trace	1	0.0
	Colwyn Bay...	o	oro	38	47	-	0.3	0.0
	Rhyl	co	oro	36	48	-	0.3	0.0
8	Wallasey ...	mco	orr	37	44	-	1	0.0
	Southport‖ ...	o	or	36	43	-	1	0.0
	Blackpool ...	oc	cod	35	43	-	0.2	0.0
	Morecambe ...	c	obbd	37	45	-	Trace	0.1
9	Ilkley... ...	ff	do	32	41	Trace	Trace	0.0
10	Berwick-on-T.	p	p	35	41	-	(Trace)	0.0
11	Dunbar ...	b	bcdc	38	43	-	0.3	0.0
12	Douglas ...	kcbco	dd.m.	38	45	-	7	0.0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 22nd Jan, 1931.

Districts.	Forecasts
1. S.E. England 2. E. England... 3. E. Midlands	Wind mainly southerly, light or moderate, freshening later; cloudy, occasional slight rain; rather mild.
4. W. Midlands	Wind backing south and freshening decidedly, fair at first, rain later; rather mild.
5. S.W. England ↓ 6. South Wales ↓ 7. North Wales ↓ 8. N.W. England ↓	Wind backing south, becoming strong to a gale, veering southwest later; fair at first, rain later; rather mild.
9. N. Midlands 10. N.E. England 11. S.E. Scotland	As 4.
12. S.W. Scotland & Isle of Man ↓	As 5 - 8.
13. A. W. Scotld. ↓ B. N.W. Scotland ↓	Wind southerly, becoming strong to a gale, veering southwest later; cloudy, rain at times; rather mild.
14. Mid-Scotland 15. N.E. Scotland ↓	As 5 - 8.
16. Orkneys and Shetlands. ↓ 17. N.W. Ireland ↓ 18. N.E. Ireland ↓ 19. S.E. Ireland ↓ 20. S.W. Ireland ↓	As 13.

GENERAL INFERENCE.

A shallow trough of low pressure is crossing England and an intense depression is approaching our western coasts. Weather will be generally unsettled and a southerly gale will develop in the West and extreme North.

FURTHER OUTLOOK.

Unsettled and mild.

Times of issues of gale warnings.

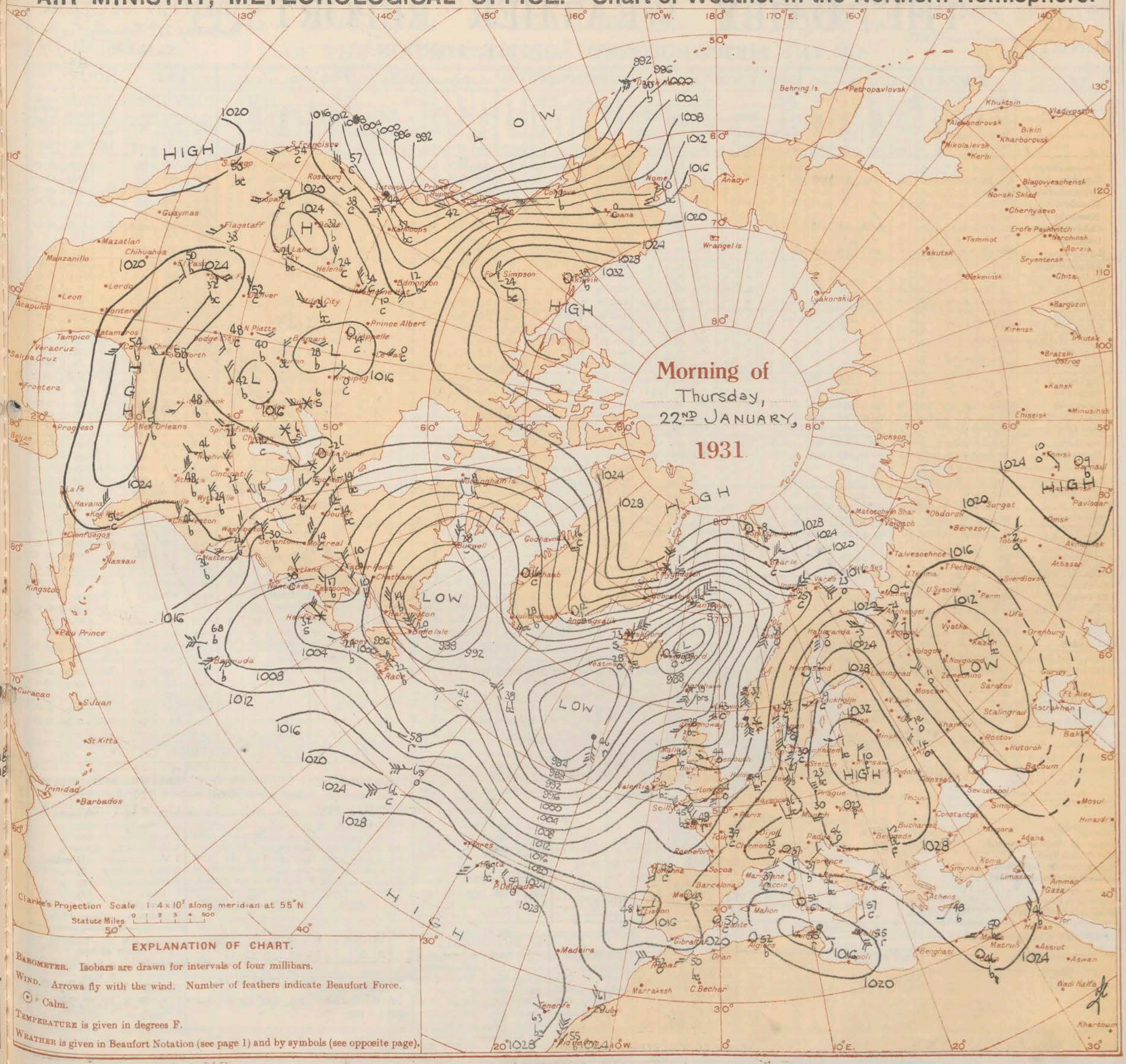
↓ South cone at 0815 on 21st in 13A, 13B, 15, 16.
↓ South cone at 0200 today in 5, 6, 7, 8, 12, 17, 18, 19, 20.

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, 22nd January 1931.

No. 25263

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

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	1015·4	-14	S'W	3	$r_o r_o$	45	95	6	5	–	–	10	10	800
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1015·4	-8	S	4	o/d	45	95	7	5	–	–	10	10	800
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1016·0	-12	S	4	z	44	95	5	5	–	–	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	1015·6	-14	SSW	4	c	44	95	7	–	2	–	0	10	—
	Cranwell	240	1012·5	-6	S'E	3	$r_o r_o$	43	95	6	6	–	–	10	10	800
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1013·6	-10	S	5	o	48	85	7	5	–	–	10	10	1500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	1012·3	-8	SSW	6	o	50	95	6	5	–	–	10	10	4000
	Scilly (St. Mary's)	163	1011·8	+4	NNW	4	o/r	47	95	7	6	–	–	10	10	4000
	Guernsey	175	1015·8	-8	S	2	o	46	85	7	5	–	–	10	10	1500
6	Pembroke	142	1009·8	0	WSW	4	ir	48	95	7	5	–	–	10	10	1500
7	Holyhead	26	1008·9	-6	W'S	4	c/r	47	95	6	5	–	–	9+	9+	800
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1011·8	-8	SSW	4	ir	43	95	6	6	–	–	10	10	1500
	Tynemouth	67	1008·9	-14	S	2	o	42	95	5	6	–	–	10	10	1500
11	Inchkeith	190	1008·2	-16	SE	1	$r_o r_o$	43	95	7	6	2	–	4-6	10	1500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1005·6	+6	SW	2	bc	40	95	7	6	–	–	4-6	4-6	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1005·3	-6	SSW	3	c	42	85	8	5	2	–	7-8	10	1500
16	Lerwick	54	1004·5	-10	S	3	c	44	95	7	5	2	–	4-6	10	1500
17	Blacksod Point	18	1008·4	-2	W	5	bc	43	86	7	3	–	–	4-6	4-6	800
18	Malin Head	52	1006·6	-8	SSW	2	bc	41	85	7	5	–	–	2·3	2·3	4000
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1012·4	+10	W	4	b	46	75	9	–	–	–	0	0	—
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 22nd Jan.

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)	1013·2	-8	S'W	2	c	45	95	6	5	–	–	10	10	1500	1	*
	Croydon	1013·5	-6	S	3	z	44	95	5	5	–	–	10	10	800	1	*
	S. Farnborough	1013·0	-10	SSE	2	o	44	95	6	5	–	–	10	10	800	1	*
	Winchester	1012·8	-14	S	3	o	44	95	6	5	–	–	10	10	450	1	*
	Boscombe Down	1012·6	-12	S	3	o	44	95	6	6	–	–	10	10	800	1	*
	Calshot, (S'thmtn)	1012·8	-12	S	3	c	45	85	7	5	3	–	7-8	10	2500	1	2
	Dungeness	*	*	SSW	2	c	*	*	7	8	–	*	10	10	4000	*	1
	Lympne	1014·0	-14	SSW	3	o	43	95	6	5	–	–	10	10	1500	1	*
2	Shoeburyness	1014·5	-10	S'W	1	c	42	95	7	5	–	–	10	10	4000	1	*
	Felixstowe	1014·1	-10	S	2	c	43	95	6	5	–	–	10	10	1500	1	2
	Gorleston	1013·4	-6	SSW	4	c	44	95	7	–	7	–	0	9+	—	0	2
	Cranwell	1010·5	-8	S'W	4	o/r	45	95	6	6	–	–	10	10	800	1	*
3	Cardington	1012·6	-4	SSW	3	$i d_o$	45	95	7	5	–	–	10	10	1500	1	*
	Birmingham	1010·5	-4	SSW	3	$r_o r_o$	45	95	7	6	–	–	10	10	1500	1	*
	Upper Heyford	1011·8	-10	SSW	3	$i d_o$	44	95	6	6	–	–	10	10	450	1	*
	Leafield	1011·3	-8	S'W	4	o	43	95	6	5	–	–	10	10	800	1	*
4	Ross-on-Wye	1010·6	-10	SSW	2	$d_o d_o$	46	95	6	6	–	–	10	10	800	1	*
5	Portland Bill	1011·5	0	S	4	o	48	95	7	5	–	–	10	10	1500	1	4
	Plymouth	1011·5	+2	NNW	3	c/r	47	95	7	6	7	–	7-8	9+	800	2	(2)
	Falmouth	1012·8	+4	NW'N	4	bc	46	85	7	3	–	–	2·3	2·3	4000	1	2
	Scilly (St. Mary's)	1013·7	+16	NNW	4	bc	45	75	8	2	–	–	4-6	4-6	4000	1	3
	Guernsey	1013·1	-12	S	3	$d_o d_o$	47	95	6	6	–	–	10	10	1500	1	3
6	Pembroke	1010·8	+6	NW	3	b	44	85	8	1	–	–	Tr.	Tr.	2500	1	2
7	Holyhead	1010·2	+4	WNW	4	b	43	95	8	2	–	–	1	1	1500	1	2
	Chester (Sealand)	1010·6	+6	W'N	2	c/r	43	95	8	5	–	–	7-8	7-8	1500	1	*
8	L'pool (Bidston)	1009·9	+6	W'S	3	bc/r	42	95	9	5	–	–	4-6	4-6	4000	1	*
9	Harrogate	1008·7	0	SW	2	c	44	95	7	6	–	–	9	9	2500	1	*
10	Spurn Head	1008·9	-6	SW'S	4	$r_o r_o$	43	95	6	6	2	–	4-6	9+	2500	1	4
	Tynemouth	1006·2	-4	W	2	o/r	44	95	7	6	–	–	10	10	1500	1	1
11	Inchkeith	1005·7	-2	WSW	2	bc	39	95	7	5	7	–	Tr.	4-6	2500	1	1
	Leuchars	1005·7	-2	WSW	3	b	35	95	8	–	–	–	0	0	—	1	*
12	Renfrew	1006·8	-10	SW	3	c	39	95	7	5	–	–	7-8	7-8	4000	1	*
	Eskdalemuir	1007·1	+4	SSW	2	b	36	85	8	–	4	–	0	1	—	1	*
13A	Tiree	1003·8	-8	WSW	3	bc	41	75	9	8	–	8	4-6	4-6	1500	1	3
13B	Stornoway	1000·1	-10	WSW	2	bc	38	95	7	3	–	–	4-6	4-6	4000	1	1
15	Dalwhinnie	1004·5	-14	SW	2	bc	34	95	8	5	–	–	4-6	4-6	4000	4	*
	Aberdeen	1003·1	-16	WSW	1	b	40	95	8	–	–	–	0	0	—	1	1
	Wick	1001·3	-16	SSW	3	bc	37	95	8	8	1	–	2·3	4-6	1500	1	3
16	Lerwick	1000·7	-22	S	2	c	43	85	7	5	7	–	4-6	7-8	1500	1	*
17	Blacksod Point	1006·3	-8	W	4	bc	44	75	7	3	–	–	4-6	4-6	800	1	3
18	Malin Head	1005·5	-2	SW	3	bcjp	40	85	7	9	–	9	2·3	2·3	2500	1	1
	Aldergrove	1003·0	-2	S	2	c	34	95	6	5	–	8	7-8	9	1500	1	*
	Donaghadee	1008·2	+2	WSW	2	b	36	95	7	–	–	–	0	0	—	0	0
19	Birr Castle	1010·6	0	S	1	b	33	95	8	–	3	–	0	1	—	1	*
20	Valentia Obsy.†	1010·8	-12	S'W	3	bc/pr	42	85	8	8	5	–	4-6	4-6	2500	1	3
	Roches Point	1012·1	0	W	2	bc	41	85	8	3	–	–	2·3	2·3	1500	0	3

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h-18h °F. (31)	Temperature Min. Night 18h-7h °F (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h-18h mm. (34)	Rainfall Night 18h-7h mm. (35)	Sunshine 21st Hrs. (36)
1	London (Kew)	46	45	41	–	0·3	0·0
	Croydon	46	44	41	–	0·3	0·0
	S. Farnborough	46	44	42	Tr.	0·6	0·0
	Winchester	46	44	43	1	1	0·0
	Boscombe Down	45	43	44	1	1	*
	Calshot, (S'thmtn)	46	44	43	Tr.	0·5	0·0
	Dungeness	47	44	*	Tr.	Tr.	*
	Lympne	46	42	40	0·1	–	0·0
2	Shoeburyness	46	41	40	–	0·3	0·0
	Felixstowe	43	42	41	0·1	0·1	0·0
	Gorleston	44	42	41	–	–	0·0
	Cranwell	40	40	39	0·1	2	0·0
3	Cardington	44	43	42	0·1	0·3	0·0
	Birmingham	43	43	43	1	2	0·0
	Upper Heyford	45	43	43	0·2	2	*
	Leafield	43	42	42	0·3	2	0·0
4	Ross-on-Wye	47	46	44	0·4	3	0·0
5	Portland Bill	48	46	*	Tr.	0·1	*
	Plymouth	50	47	46	3	4	0·0
	Falmouth	50	45	*	4	3	0·0
	Scilly (St. Mary's)	54	44	*	5	4	0·0
	Guernsey	48	46	41	1	1	0·0
6	Pembroke	43	43	*	2	6	0·0
7	Holyhead	47	43	38	1	5	0·0
	Chester (Sealand)	43	43	41	1	3	0·0
8	L'pool (Bidston)	42	41	40	1	6	0·0
9	Harrogate	40	39	38	Tr.	2	0·0
10	Spurn Head	41	40	*	Tr.	2	0·0
	Tynemouth	40	39	35	–	1	*
11	Inchkeith	44	38	36	–	3	0·0
	Leuchars	42	35	31	0·3	0·4	0·0
12	Renfrew	44	34	26	1	0·6	0·0
	Eskdalemuir	39	34	29	4	3	0·0
13A	Tiree	46	39	31	4	2	0·0
13B	Stornoway	47	37	*	3	1	0·1
15	Dalwhinnie	40	34	*	1	2	0·0
	Aberdeen	43	40	35	–	4	0·0
	Wick	44	37	*	–	0·3	*
16	Lerwick	45	42	*	–	2	0·0
17	Blacksod Point	49	41	*	3	2	*
18	Malin Head	46	38	*	Tr.	0·5	0·0
	Aldergrove	46	32	27	1	0·5	0·0
	Donaghadee	47	35	*	2	1	*
19	Birr Castle	48	33	25	3	0·6	0·0
20	Valentia Obsy.†	50	41	37	0·5	0·3	0·0
	Roches Point	49	40	*	5	–	*

LONDON OBSERVATIONS.

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

	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	cm	cmfpm	46	45	41	–	0·3	0·0	*	*	6
Croydon	217	cmm	cm	mdpcc	46	44	41	–	0·3	0·0	*	*	5
Greenwich (Royal Observatory)	149	cmc	c	cdfc	47	38	39	–	0·3	0·0	86	88	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St James' Park)	27	*	*	*	47	41	40	0·4		0·0	70	84	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	0·0	*	*	*
Camden Square	110	fc	c	*	46	37	43	–	0·3	*	*	88	*
Kensington Palace	80	oco	co	*	46	45	40	–	0·3	*	At 18h. 86	87	*
Hampstead Observatory	450	ofom	of	*	45	41	38	Tr.	0·3	0·0	*	92	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 22nd

South Kensington Max.	Time.	Min.	Time.
2·6	10h. 21st	<0·3	0h.-7h. 22nd

Kew-Observatory Max.	Time.	Min.	Time.
1·5	9h. 21st	<0·1	1h.-5h. 22nd

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 21st Jan. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 22nd Jan. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	Past 24 Hours Max. Day °F.	Min. Night °F.	Rainfall Day mm.	Rainfall Night mm.
Paris	1020·2	SE	1	o	48	1017·0	SSE	3	z	37	48	36	Tr.	–
Brussels	1021·2	SSE	3	c	46	1017·0	SSE	3	z	37	46	36	–	–
Berlin	1030·0	E	3	b	30	1027·7	SE	3	z	33	32	21	Tr.	–
Zürich	1026·2	SE	1	b	36	1025·2	W	1	o	34	46	28	–	–
Rome	1023·4	ENE	1	c	50	1024·2	NE	3	bc	46	55	45	–	–

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 23rd January 1931.

No. 25,264.

OBSERVATIONS at 13h. G.M.T. 22nd January

(For heights see p. 4.)

District	Stations	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)...	1012.1	-18	S	3	o	47	85	6	5	-	-	10	10	1500
	Croydon ...	1012.7	-10	S'W	4	mo	47	85	6	5	-	-	10	10	1500
	S. Farnborough	1012.0	-12	S'E	2	ido	46	95	6	5	-	-	10	10	450
	Winchester ...	1011.8	-10	SW'S	3	dd	47	95	5	6	-	-	10	10	450
	Boscombe Down	1012.0	-6	SWW	4	dd	47	95	6	6	-	-	10	10	450
	Calshot, S'thmtn	1012.3	-10	S'W	4	ido	46	95	6	5	-	-	10	10	800
	Dungeness ...	*	*	SW	4	c	*	*	7	5	2	*	4-6	7-8	4000
	Lympne ...	1013.3	-10	SW'S	4	c	45	85	7	5	-	2	7-8	9+	1500
2	Shoeburyness	1013.0	-10	SSW	2	c	44	85	8	5	-	-	9	9	4000
	Felixstowe ...	1013.1	-10	S	3	c	43	95	7	5	-	-	10	10	2500
	Gorleston ...	1012.1	-10	SSW	4	c	46	85	6	-	6	9	0	7-8	-
	Cranwell ...	1010.1	-6	WNW	2	dd	45	95	4	6	-	-	10	10	800
3	Cardington ...	1011.0	-12	SW'S	3	o	47	85	6	5	-	-	10	10	1500
	Birmingham ...	1011.1	0	-	0	m	43	95	4	5	-	-	7-8	7-8	800
	Upper Heyford	1011.1	-10	SSW	3	dd	45	95	4	6	2	-	9+	10	220
	Leafield ...	1011.0	-4	WSW	3	ido	45	95	6	6	-	-	10	10	220
4	Ross-on-Wye ...	1011.3	0	NW'W	2	bc	47	75	8	7	-	8	2-3	2-3	4000
5	Portland Bill...	1011.7	-4	W	4	c	47	95	7	4	4	-	2-3	7-8	1500
	Plymouth ...	1013.6	+2	NWW	3	bc	48	65	8	7	-	5	2-3	4-6	4000
	Falmouth ...	1015.0	+6	W'S	4	bc	48	65	8	8	-	-	4-6	4-6	4000
	Scilly (St. Mary's)	1013.8	-8	WSW	5	c	48	75	8	4	9	8	4-6	9	4000
	Guernsey ...	1013.4	+2	W	3	c	49	85	7	5	-	-	10	10	1600
6	Pembroke ...	1011.5	-6	SW	4	c	47	75	8	8	7	-	4-6	7-8	2500
7	Holyhead ...	1010.2	-6	SW'S	4	c	45	85	8	4	1	6	1	9+	2500
	Chester (Sealand)	1010.9	-6	SWW	1	bc	49	65	8	1	-	6	1	4-6	4000
8	L'pool (Bidston)	1010.0	-6	SW	2	bc	44	65	8	1	-	9	1	2-3	4000
9	Harrogate ...	1009.7	+6	SSW	2	bc	44	75	8	9	-	2	2-3	4-6	4000
10	Spurn Head ...	1009.7	0	W'N	1	m	43	95	4	5	3	-	7-8	10	220
	Tynemouth ...	1007.8	+6	W	2	bc	45	65	6	2	-	1	4-6	4-6	2500
11	Inchkeith ...	1005.7	-2	WSW	3	c	42	85	8	1	1	1	2-3	7-8	4000
	Leuchars ...	1005.8	-2	SSW	3	c	41	85	6	1	3	6	Tr.	7-8	4000
12	Renfrew ...	1006.5	-4	SSW	3	c	43	75	7	8	4	4	7-8	9	2500
	Eskdalemuir ...	1007.5	-4	SW	3	c	38	95	8	5	-	-	9+	9+	1500
13A	Tiree ...	1001.5	-20	S	5	c	43	85	8	5	1	-	4-6	10	1600
13B	Stornoway ...	999.0	-8	SSW	3	c	42	95	8	3	1	-	4-6	9	4000
15	Dalwhinnie ...	1004.4	-8	S	3	bc	37	75	8	5	4	-	2-3	4-6	4000
	Aberdeen ...	1003.7	0	SW	3	bc	43	75	8	-	4	6	0	4-6	-
	Wick ...	1001.1	-2	SW	3	bc	40	85	8	5	4	1	2-3	4-6	2500
16	Lerwick ...	998.0	-10	SW	3	iro	41	85	7	9	2	-	4-6	7-8	1500
17	Blacksod Point	989.7	-38	SSW	7	rr	45	85	7	6	-	-	10	10	<150
18	Malin Head ...	1002.6	-20	SSW	5	c	40	75	7	5	7	-	4-6	9+	1500
	Aldergrove ...	1006.5	-18	S	3	c	40	85	7	-	2	7	0	10	-
	Donaghadee ...	1007.0	-10	SW	2	c	43	85	7	5	-	-	7-8	7-8	1500
19	Birr Castle ...	1007.1	-22	S	3	c	43	85	8	5	2	-	9	10	2500
20	Valentia Obsy.	1004.9	-42	S	5	iro	46	85	8	5	2	-	7-8	10	1500
	Roches Point...	1009.1	-26	SW	4	c	47	75	8	3	-	-	9	9	1600

OBSERVATIONS at 18h. G.M.T. 22nd January

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)	1012.1	+4	SW'S	3	ddo	47	95	5	6	-	-	10	10	1500	1	*
Croydon	1012.5	+2	SSW	3	ido	46	95	4	5	-	-	10	10	220	1	*
S. Farnborough	1012.4	+8	WSW	4	c/d	45	95	7	5	-	2	2-3	7-8	2500	1	*
Winchester	1013.2	+18	W	2	bc	39	85	7	-	1	-	0	4-6	-	1	*
Boscombe Down	1012.9	+10	WSW	3	c	39	95	7	-	-	6	0	7-8	-	1	*
Calshot, S'thmtn	1013.1	+10	W'S	2	c	41	95	7	5	-	6	4-6	7-8	1500	1	1
Dungeness	*	*	SW	5	dd	*	*	5	6	-	*	10	10	1500	*	3
Lympne	1013.0	-2	SSW	4	dF	45	95	1	6	-	-	10	10	<150	1	*
Shoeburyness	1012.3	+4	S	3	c	45	95	7	5	-	-	9	9	4000	1	*
Felixstowe	1012.4	-4	S'W	3	c	44	95	7	5	-	-	10	10	2500	1	2
Gorleston	1010.5	-4	SW'S	3	roro	44	95	6	6	-	-	10	10	1500	1	2
Cranwell	1010.2	+2	SW	3	c	41	95	5	5	3	-	7-8	9+	2500	1	*
Cardington	1011.2	+2	W	2	bc	44	95	7	5	-	8	4-6	4-6	1500	1	*
Birmingham	1010.6	-4	WSW	3	c	41	85	8	-	1	6	0	9	-	1	*
Upper Heyford	1012.3	+8	WSW	2	c	41	95	6	-	1	-	0	9	-	1	*
Leafield	1011.5	+4	WSW	3	c	40	95	7	-	1	-	0	7-8	-	1	*
Ross-on-Wye	1010.9	0	SW	3	c	43	75	8	6	1	-	2-3	9+	2500	1	*
Portland Bill	1013.4	+10	WSW	4	c	47	85	8	4	7	-	4-6	9+	1500	1	3
Plymouth	1013.8	+2	SSW	5	c	48	75	8	6	-	-	9+	9+	1500	1	2
Falmouth	1013.0	-8	SW	5	c	48	65	7	5	-	-	10	10	4000	0	3
Scilly (St. Mary's)	1011.1	-14	SW	6	c	49	75	8	5	3	-	4-6	9	4000	0	3
Guernsey	1015.9	+12	SW	1	c	47	65	8	5	-	-	7-8	7-8	2500	0	3
Pembroke	1007.8	-14	SW'S	5	q	47	75	8	8	7	-	4-6	9	2500	1	2
Holyhead	1006.0	-34	S	5	c	45	85	8	5	1	-	9	9+	4000	1	3
Chester (Sealand)	1009.1	-18	SE'S	2	zo	41	75	6	5	-	-	9	9	1500	1	*
L'pool (Bidston)	1007.6	-18	SSE	3	c	42	65	8	5	-	-	9+	9+	2500	0	*
Harrogate	1008.4	0	S	1	c	39	85	5	6	-	-	10	10	2500	1	*
Spurn Head	1008.6	0	SW'W	2	c	41	95	6	5	-	-	7-8	7-8	450	0	3
Tynemouth	1007.4	-6	S	2	o	42	85	6	6	-	-	10	10	1600	1	1
Inchkeith	1003.0	-20	SSE	2	c	42	75	8	5	9	-	2-3	7-8	2500	0	1
Leuchars	1002.6	-26	SW	2	c	38	86	7	-	2	-	0	9+	-	1	*
Renfrew	1001.7	-34	SSE	3	c	41	86	6	5	-	7	2-3	10	2500	1	*
Eskdalemuir	1003.8	-26	S'W	4	c	37	95	7	5	1	-	2-3	10	800	1	*
Tiree	991.6	-70	SSE	8	rr	41	95	6	6	2	-	9+	10	800	1	4
Stornoway	(995.2)	-30	S	8	o	44	95	7	6	-	-	10	10	4000	1	4
Dalwhinnie	1000.5	-26	W	3	bc	36	85	8	5	-	-	4-6	4-6	2500	1	*
Aberdeen	1001.4	-16	SSE	3	c	40	85	6	6	2	-	4-6	10	1500	1	1
Wick	997.4	-30	SW	5	c	42	85	8	5	2	8	4-6	10	1500	0	3
Lerwick	997.7	-4	SW	2	bc	41	75	7	5	-	-	2-3	2-3	1500	1	*
Blacksod Point	989.9	-60	SSW	9	RR	48	95	6	6	-	-	10	10	<150	2	8
Malin Head	990.6	-80	SSE	6	iro	43	75	7	6	7	-	7-8	10	1500	1	3
Aldergrove	998.4	-38	SSE	5	roro	42	85	7	5	2	-	7-8	10	2500	1	*
Donaghadee	1000.2	-40	SW	3	ido	44	95	7	5	-	-	9+	9+	800	1	2
Birr Castle	998.0	-48	S	5	o/r	46	86	8	6	-	-	10	10	2500	1	*
Valentia Obsy.	997.5	-38	S	7	roro	50	95	6	5	-	-	10	10	800	1	4
Roches Point	1002.4	-30	SW	6	rr	47	95	6	6	-	-	10	10	800	1	6

PAST 24 HOURS. WEATHER.

Stations	7h.–13h. 22nd (37)	13h.–18h. 22nd (38)	18h 22nd to 1h. 23rd (39)	1h.–7h. 23rd (40)
London (Kew)	cmoozo	cdom	bmocmo	ccrq
Croydon	ocmo	codom	odombcq	bcorrmoq
S. Farnborough	omodo	omdidc	cbcc	corr
Winchester	omoddm	omddcbc	ccm	cmoorr
Boscombe Down	oddmo	oddmbcc	c	corrmo
Calshot, S'thmtn	comoddm	oddcmbc	bcwcbcq	bcqorrRrrmq
Dungeness	bc	d	*	bc
Lympne	coddm	codd F	odoFbmo	obmo
Shoeburyness	c	c	cbc	bccoro
Felixstowe	cmo	c	cdomo	crr
Gorleston	c	coiro	ororoirobc	bcorq
Cranwell	iroido	oidomcm	cbcmo	bccpro
Cardington	omo	omorcmbc	bcc	cororo
Birmingham	opro	bcc	c	corroiro
Upper Heyford	oddrdd	oddbccm	cmo	corrmq
Leafield	oido	cbcc	c	orr
Ross-on-Wye	rocvbc	bbcc⊕	coro	or
Portland Bill	odoc	c	c	oRRz
Plymouth	cbbc	byc	coqro	ororrq
Falmouth	bcq	bccq	orrq/	orrmoq/
Scilly (St. Mary's)	bcc	c	corr	rr/
Guernsey	oidoc	ocbcc	cbcco	oorrq
Pembroke	bcc	cpq	corrq/	orrq/
Holyhead	bbcmc⊕	c	rorrq	rrcmo
Chester (Sealand)	mbc	bcczo	c,ro	rod
L'pool (Bidston)	bcb	co	oiroc	roirc
Harrogate	cbc	bcco	obQ	coqroro
Spurn Head	cm	cmc	cbcc	crpr
Tynemouth	obc	bco	ocq	oirobcq
Inchkeith	bcc	c	coiro	coirobc
Leuchars	bxcmo	cmoc	corr	crorc
Renfrew	bcc	c cmo	c,orrq	irPqc
Eskdalemuir	bbcxc	cprc	corsorsm	orsorcpr
Tiree	bcprcjp	c	crRiR	bc/
Stornoway	cpr	cpro	orrid,bc	cirbc
Dalwhinnie	ps bc	ps bc	irqc	irqc
Aberdeen	bbc	bcc	coRR	orobc
Wick	bc	bcc	boird/	circ/
Lerwick	ciro	cprbc	bcc	coiro
Blacksod Point	cq	rr	prqc	prbcq
Malin Head	bcpoc	ciro	ciro	bcirbcc
Aldergrove	bcxmoc	croro	cir	ccprc
Donaghadee	bbcc	cido	circ	cbcb
Birr Castle	bbcc	coroo	oir	oircbc
Valentia Obsy.	bccpiro	croro	crcroiroc	cpbc
Roches Point	bccpoc	corr	orro	oirc

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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,

R, heavy rain. r_o, slight rain. rr, continuous rain.

<, less than (for cloud height).

⊕, solar halo. Ⓦ, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.

"tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{10}$ of the sky.

"9+" signifies an overcast sky with a few small openings.

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

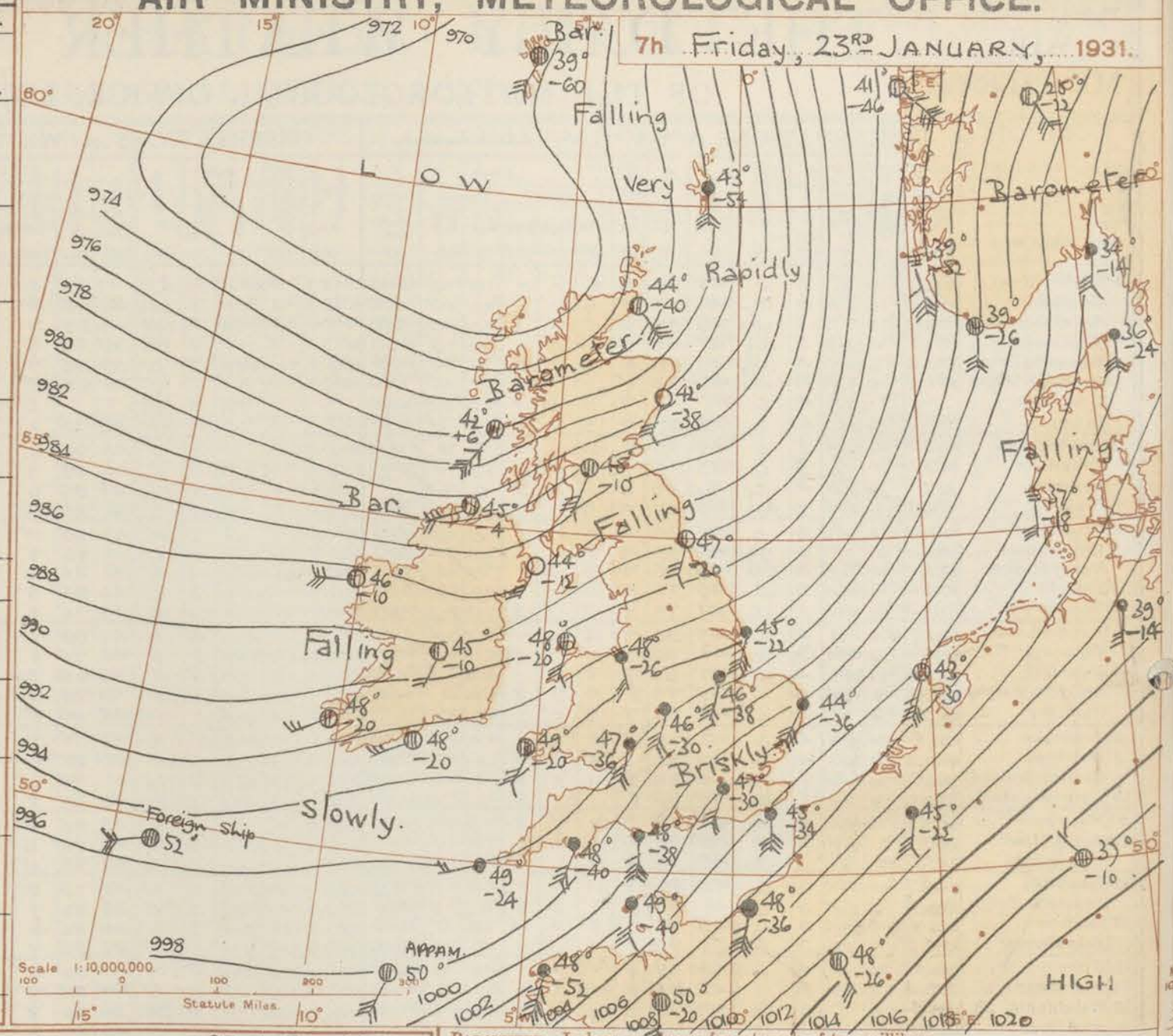
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 22nd January 1931.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 21st to 9h. 22nd	Temperature. Max. 9h.—17h. 22nd	Rainfall. Night. 17h. 21st to 9h. 22nd	Rainfall. Day. 9h.—17h. 22nd	Sunshine. Sunrise to Sunset. 22nd
1	Tunbridge W.	o	omd	42	46	-	Trace	0.0
	Bournemouth	o	doc	44	48	1	0.3	0.3
	Ventnor ...	dpcuo	odou	44	47	0.3	Trace	0.0
	Southsea ...	o	od.o	44	48	0.4	0.1	0.0
	Bognor Regis	co	o	44	47	–	–	0.0
	Littlehampton	c	c	44	46	0.2	-	0.0
	Worthing ...	o	or.o	44	46	Trace	0.3	0.0
	Brighton ...	c	cod	45	47	–	1	0.0
	Eastbourne†	od.	d.	44	47	–	1	0.0
	Hastings† ...	oco	ofd	44	47	Trace	0.4	0.3
	Folkestone ...	oc	codf	44	47	–	Trace	0.3
	Dover... ...	com	d.	45	46	–	Trace	0.0
	Deal	o	oco	42	46	–	-	0.1
	Ramsgate ...	c	c	43	46	–	-	0.0
	Margate ...	c	c	43	46	Trace	-	0.2
2	Southend ...	oc	co	39	45	0.3	-	0.1
	Maldon ...	oco	d.o	42	47	0.3	Trace	0.0
	Clacton-on-Sea	c	c	38	43	-	-	0.3
	Dovercourt ...	oc	bcc	*37	45	Trace	-	0.9
	Lowestoft ...	cvc	cod.o	36	44	–	Trace	0.0
	Skegness ...	rom	om	35	44	2	Trace	0.0
	Mablethorpe	or.m.	om.	32	47	2	Trace	0.0
	Cleethorpes...	o	o	32	47	2	-	0.0
3	Leamington S.	oro	o	41	46	5	–	0.0
4	Cheltenham†	oroc	cbcc	46	47	2	1	1.1
5	Bath	d.c	cbcb	39	50	1	0.3	2.6
	Weymouth ...	dp.c	cbcb	45	51	3	0.6	1.8
	Jersey ...	dc	bcc	45	51	Trace	Trace	0.7
	Torquay ...	odrp	ombcc	46	50	3	–	4.6
	Penzance ...	bcb	bcc	43	51	8	–	4.1
	St. Ives ...	c	c	46	51	7	-	2.8
	Bude	bcbc	bcc	44	50	4	-	4.1
	Ilfracombe ...	b	bcc	45	47	7	-	3.7
6	Aberystwyth	orrc	cbcc	41	45	9	-	3.4
7	Llandudno ...	b	bbcc	41	47	5	-	4.8
	Colwyn Bay...	b	b o	40	47	4	-	4.7
	Rhyl	bz.	bcc	40	47	3	-	4.7
8	Wallasey ...	b	bcc	38	47	7	-	4.8
	Southport‖ ...	b	bbcco	41	45	6	-	4.6
	Blackpool ...	oroc	co	39	46	7	–	4.1
	Morecambe ...	rcbbc	bbcbc	40	45	6	–	4.5
9	Ilkley... ...	b	b	32	46	2	–	3.3
10	Berwick-on-T.	bc.	co	36	42	2	-	3.1
11	Dunbar ...	b	bc	38	44	3	-	4.3
12	Douglas ...	cbbc	cbc	38	45	11	–	3.8

* 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 the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡° Mist. T Thunder. K Thunderstorm.
SEA DISTURBANCE. ⌒ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 23rd Jan. 1931.
1. S.E. England ↓ 2. E. England... ↓ 3. E. Midlands	Fresh or strong southerly wind, veering and moderating; rain at first, then improving with bright intervals; 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	Westerly winds, fresh or strong at times; occasional rain or showers, some bright intervals; rather mild, becoming somewhat colder.
13. A. W. Scotld. ↓ B. N.W. Scotland.	Westerly winds, strong to gale, moderating slowly; showery, sleet locally; colder.
14. Mid-Scotland 15. N.E. Scotland ↓	As 4-12.
16. Orkneys and Shetlands.	Wind veering southwest to west, strong to gale, moderating later; showery; moderate temperature.
17. N.W. Ireland ↓ 18. N.E. Ireland ↓ 19. S.E. Ireland ↓ 20. S.W. Ireland ↓	As 4-12.

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

GENERAL INFERENCE.

An intense depression off Northwest Scotland is moving northeast and associated secondaries are crossing the British Isles. Weather will continue unsettled with some bright intervals.

FURTHER OUTLOOK.

Unsettled, some bright intervals.

Times of Issue of Gale Warning.

↓ South Cone at 0815 on 21st in 13A, 13B, 15, 16.
South Cone at 0200 on 22nd in 5, 6, 7, 8, 12, 17, 18, 19, 20.
South Cone at 1840 on 22nd in 1, 2 and 10.

Forecasts issued at 1010 G.M.T.

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

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

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, 23rd January 1931.

No. 25,264.

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

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	1009·7	-28	SSW	5	bc	45	85	8	5	2	-	4-6	4-6	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1009·3	-30	S'W	6	bc	46	85	8	5	-	-	4-6	4-6	2500
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1011·3	-18	SSW	5	o	44	85	8	5	-	-	10	10	450
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	1009·2	-6	SSW	4	bc	41	95	7	-	2	-	0	2-3	-
	Cranwell	240	1003·5	-34	S	5	c	41	85	6	5	-	-	7-8	7-8	4000
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1007·5	-24	SSW	6	c	49	85	8	4	-	-	10	10	1500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	1005·6	-20	SW'S	8	rr	49	95	7	6	-	-	10	10	2500
	Scilly (St. Mary's)	163	1002·7	-36	SW	8	rr	48	95	6	6	-	-	10	10	2500
	Guernsey	175	1011·7	-30	S	4	o	48	85	8	5	-	-	10	10	2500
6	Pembroke	142	998·4	-36	SW'S	8	rr	48	95	6	5	-	-	10	10	800
7	Holyhead	26	995·6	-46	SSW	7	rr	48	95	6	6	-	-	10	10	800
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1001·8	-24	SSW	6	c	40	95	7	5	7	-	2-3	7-8	4000
	Tynemouth	67	996·3	-34	SSW	3	o	41	85	7	6	-	-	10	10	1500
11	Inchkeith	190	989·2	-56	S	4	r₀r₀	41	85	8	6	-	-	10	10	800
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	975·7	-56	SW	6	bc	46	95	7	4	7	-	2-3	4-6	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	983·9	-70	SSE	8	ir	41	95	8	9	2	-	7-8	10	1500
16	Lerwick	54	989·7	-54	S'E	5	c	43	75	7	5	2	-	4-6	7-8	1500
17	Blacksod Point	18	987·8	-6	WSW	9	c	47	75	7	3	-	-	7-8	7-8	800
18	Malin Head	52	983·3	-20	SW'W	6	bc/r	45	85	7	6	-	-	4-6	4-6	1500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	994·3	-14	WSW	6	o/d	48	95	6	6	-	-	10	10	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 23rd January

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)	1001·6	-40	SSW	5	rr	47	95	7	6	-	-	9	9	1500	1	*
	Croydon	1003·1	-30	SSW	5	r₀r₀	47	85	6	6	-	-	10	10	800	1	*
	S. Farnborough	1001·3	-40	S'W	5	rr	47	95	6	6	2	-	9	10	800	1	*
	Winchester	1000·2	-36	SSW	6	rr	45	95	7	6	-	-	10	10	800	1	*
	Boscombe Down	999·4	-34	S	6	rr	46	95	6	6	-	-	10	10	800	1	*
	Calshot, (S'thmtn)	1001·8	-38	S'W	7	rr	47	85	6	6	-	-	10	10	800	1	4
	Dungeness	*	*	SW	7	rr	*	*	7	6	-	*	10	10	1500	*	4
	Lympne	1004·6	-34	SSW	6	rr	45	95	6	6	-	-	10	10	800	1	*
2	Shoeburyness	1003·6	-40	SSW	5	rr	46	95	8	6	-	-	10	10	800	1	*
	Felixstowe	1003·0	-30	S	5	rr	44	95	7	6	2	-	7-8	10	1500	1	4
	Gorleston	1001·7	-36	SSW	6	r₀r₀	44	95	6	6	-	-	10	10	800	1	3
	Cranwell	995·9	-38	SSW	5	pr₀	46	85	7	6	-	-	10	10	1500	1	*
3	Cardington	998·8	-34	SSW	6	ir₀	46	95	7	6	-	-	10	10	800	1	*
	Birmingham	996·1	-30	SSW	5	ir₀	46	95	8	6	-	-	10	10	1500	1	*
	Upper Heyford	998·4	-44	S	5	rr	46	95	6	6	-	-	10	10	450	1	*
	Leafield	997·6	-40	S'W	6	rr	45	95	6	6	-	-	10	10	1500	1	*
4	Ross-on-Wye	996·0	-36	SW'S	5	r₀r₀	47	95	7	6	-	-	10	10	1500	1	*
5	Portland Bill	999·5	-38	SSW	7	RR	48	95	6	5	-	-	10	10	1500	(2)	5
	Plymouth	997·6	-40	SSW	5	rr	48	95	6	6	-	-	10	10	800	(2)	4
	Falmouth	996·8	-32	SW'S	7	RR	49	95	7	6	-	-	10	10	2500	(2)	4
	Scilly (St. Mary's)	996·1	-24	W'S	2	rr₀	49	95	7	6	-	-	10	10	2500	1	3
	Guernsey	1003·4	-40	S	4	rr	49	95	6	6	-	-	10	10	1500	(2)	4
6	Pembroke	999·3	-20	SW	4	z	49	95	5	8	-	-	10	10	800	(2)	3
7	Holyhead	991·4	-20	SW'S	4.5	c	48	95	6	5	-	-	9+	9+	2500	1	2
	Chester (Sealand)	992·8	-26	S	3	id₀	48	95	7	6	-	-	9	9	1500	1	*
8	L'pool (Bidston)	990·8	-26	SSW	4	c	48	85	8	9	-	-	9	9	1500	1	*
9	Harrogate	992·5	-26	S	5	ir₀	46	95	6	6	2	-	9	10	2500	1	*
10	Spurn Head	995·1	-22	SW'S	7	c/pr	45	95	7	3	2	-	4-6	9	4000	1	4
	Tynemouth	988·2	-20	SW	4	bc	47	85	7	9	-	-	4-6	4-6	2500	1	2
11	Inchkeith	985·5	-10	SW	4	bc	44	75	8	-	7	-	0	2-3	-	0	2
	Leuchars	983·6	-20	SSW	5	bc	42	85	8	5	-	-	4-6	4-6	1500	1	*
12	Renfrew	984·6	-10	SW	4	c	45	75	6	5	2	-	4-6	10	2500	2	*
	Eskdalemuir	985·9	-20	SW	5	c/pr	43	85	7	5	-	-	9	9	1500	1	*
13A	Tiree	976·5	+6	SW'W	8	cjp	47	75	7	3	7	-	4-6	7-8	1500	1	5
13B	Stornoway	967·2	-28	W	5	bc	44	85	7	3	-	-	4-6	4-6	4000	2	4
15	Dalwhinnie	976·4	-26	WSW	7	pr	39	95	7	5	-	-	9	9	1500	1	*
	Aberdeen	978·8	-38	SSW	4	b	42	85	8	-	-	-	0	0	-	1	2
	Wick	972·6	-40	SSE	7	c	44	85	8	9	-	8	4-6	7-8	1500	1	4
16	Lerwick	975·8	-54	S'E	5	ir₀	43	95	6	8	2	-	4-6	10	1500	1	*
17	Blacksod Point	986·8	-10	W	6	bc	46	75	8	8	-	-	4-6	4-6	<150	0	4
18	Malin Head	981·3	-4	WSW	5	cjp	45	85	7	9	3	-	2-3	7-8	2500	0	4
	Aldergrove	986·7	-10	S'W	4	c	43	75	7	5	-	-	9+	9+	2500	1	*
	Donaghadee	985·8	-12	SW	3	b	44	85	7	5	-	-	1	1	1500	1	2
19	Birr Castle	989·7	-10	SW	2	bc	45	85	8	5	-	-	2-3	2-3	4000	2	*
20	Valentia Obsy.†	991·4	-20	SW'W	3	bc	48	85	7	5	1	-	4-6	4-6	2500	1	4
	Roches Point	992·8	-20	W	3	c	48	95	7	5	-	-	9	9	1500	1	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 23rd Hrs. (36)
1	London (Kew)	48	42	36	Tr.	2	0·1
	Croydon	47	41	36	Tr.	2	0·5
	S. Farnborough	47	39	33	0·1	4	0·0
	Winchester	47	37	33	0·1	4	0·1
	Boscombe Down	47	38	37	0·4	5	*
	Calshot, (S'thmtn)	47	40	36	0·6	7	0·0
	Dungeness	47	43	*	0·3	0·3	*
	Lympne	46	38	33	0·1	0·6	0·0
2	Shoeburyness	47	40	36	-	0·1	0·2
	Felixstowe	44	41	38	-	0·5	0·2
	Gorleston	47	40	37	0·1	0·5	0·0
	Cranwell	46	38	35	0·4	1	0·0
3	Cardington	47	39	37	Tr.	1	0·0
	Birmingham	45	39	37	1	2	0·7
	Upper Heyford	45	38	35	0·2	3	*
	Leafield	45	37	35	0·2	4	1·0
4	Ross-on-Wye	48	43	39	1	4	2·0
5	Portland Bill	49	46	*	1	3	*
	Plymouth	50	47	4/50	-	12	5·2
	Falmouth	50	47	*	-	15	5·3
	Scilly (St. Mary's)	49	48	*	-	18	3·7
	Guernsey	51	47	42	0·3	4	1·6
6	Pembroke	48	47	*	Tr	12	4·1
7	Holyhead	46	44	42	-	11	4·2
	Chester (Sealand)	49	40	38	-	2	5·3
8	L'pool (Bidston)	44	40	38	-	0·4	5·2
9	Harrogate	46	38	32	-	1	4·2
10	Spurn Head	46	39	*	0·1	1	0·0
	Tynemouth	46	40	36	-	0·1	*
11	Inchkeith	43	40	39	-	0·3	3·0
	Leuchars	43	37	35	Tr.	6	2·6
12	Renfrew	44	40	38	-	16	2·0
	Eskdalemuir	39	36	34	0·4	21	0·0
13A	Tiree	44	41	40	2	5	0·1
13B	Stornoway	45	41	*	0·4	4	1·2
15	Dalwhinnie	37	33	*	1	16	0·6
	Aberdeen	43	39	36	-	8	3·0
	Wick	42	41	*	-	1	*
16	Lerwick	44	40	*	1	4	1·9
17	Blacksod Point	49	45	*	17	2	*
18	Malin Head	43	42	*	1	5	0·0
	Aldergrove	42	41	38	0·3	1	0·0
	Donaghadee	44	43	*	Tr.	2	*
19	Birr Castle	46	45	40	Tr.	2	0·2
20	Valentia Obsy.†	50	47	44	4	1	0·0
	Roches Point	48	45	*	7	6	*

LONDON OBSERVATIONS.

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

	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	cm₀oz	cd₀m₀	bm₀cry	48	42	36	Tr.	2	0·1	*	*	6
Croydon	217	ocm₀	cod₀m	odmcry	47	41	36	Tr.	2	0·5	*	*	6
Greenwich (Royal Observatory)	149				48	41	33	0·3	3	0·0	90	89	6
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park)	27	*	*	*						0·1			*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*		*	*	*
Camden Square	110	o	oodo	*	47	43	38	0·3	4	*	At 18h. 95	91	*
Kensington Palace	80	co	co	*	47	43	36	-	4	*		86	*
Hampstead Observatory	450	odmbclm	bm	*	45	38	35	0·3	4	0·0	*	84	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time	Min.	Time
0·8	9h. 22nd	<0·3	4h.-7h. 23rd

Kew Observatory Max.	Time	Min.	Time
Defective Record.			

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 22nd January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 23rd January 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	S	2	z	46	1013·3	SE	3	z	48	46	46	-	-
Brussels	1015·9	SSW	3	o	43	1011·5	E	4	ir₀	45	43	43	-	Tr.
Berlin	1022·1	SE	3	z	27	1016·4	SSE	2	m	36		25	-	—
Zürich	1025·6	SE	1	z	34	1024·4	SE	1	z	31	39	30	-	0·1
Rome	1029·1	W	2	z	45	1026·9	N'E	3	c	39	59	39	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 24th January 1931.

No. 25,265.

OBSERVATIONS at 13h. G.M.T. 23rd January

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)	992.8	-34	SSW	5	roro	49	95	6	6	-	-	10	10	1500
	Croydon	994.5	-52	SSW	6	rr	48	95	6	6	-	-	10	10	450
	S. Farnborough	992.8	-52	SW'S	6	rr	48	95	6	6	-	-	10	10	450
	Winchester	992.0	-50	SW'S	6	DD	47	95	4	6	-	-	10	10	450
	Boscombe Down	991.9	-48	S'W	6	dd	48	95	5	6	-	-	10	10	220
	Calshot, S'thmtn	993.5	-46	S'W	8	iro	48	95	6	6	-	-	10	10	800
	Dungeness	*	*	SSW	8	RR	*	*	4	6	-	*	10	10	1500
	Lympne	996.8	-50	S'W	7	rr	46	95	6	6	-	-	10	10	<150
2	Shoeburyness	995.3	-26	SW	5	roro	47	95	7	6	-	-	10	10	800
	Felixstowe	995.5	-46	S'W	5	rr	46	95	7	6	2	-	10	10	800
	Gorleston	994.2	-38	SSW	6	rr	45	95	6	6	-	-	10	10	800
	Cranwell	989.1	-42	SW'S	4	roro	47	95	6	6	2	-	9	10	800
3	Cardington	990.4	-56	SSW	6	iro	49	95	7	5	2	-	9+	10	800
	Birmingham	989.8	-42	WSW	3	c	47	95	6	6	-	-	7-8	7-8	1500
	Upper Heyford	990.5	-50	SSW	5	dd	47	95	5	6	-	-	10	10	450
	Leafield	989.9	-40	SSW	4	iro	47	95	7	6	-	-	10	10	450
4	Ross-on-Wye	989.4	-40	SW	3	c	51	85	7	8	4	-	4-6	7-8	4000
5	Portland Bill	1001.9 (red: 991.9)	-38	SSW	7	Dr	49	95	5	5	-	-	10	10	800
	Plymouth	992.2	-26	SW'W	3	c	49	95	7	8	3	-	4-6	9	1500
	Falmouth	993.9	-16	SW'W	5	c	49	95	8	8	2	-	7-8	7-8	4000
	Scilly (St. Mary's)	992.9	-20	W'S	5	c	49	95	7	8	-	-	9	9	4000
	Guernsey	995.1	-50	SSW	4	b/r	50	95	5	5	-	-	10	10	1500
6	Pembroke	988.8	-24	SW	4	c	49	95	7	8	8	-	7-8	9+	2500
7	Holyhead	987.6	-32	SSW	5	c	48	85	6	5	3	-	1	7-8	800
	Chester (Sealand)	987.0	-44	SW	4	ir	48	85	6	6	-	-	9	9	2500
8	L'pool (Bidston)	986.5	-32	SW'S	3	c	48	75	7	9	-	-	9+	9+	2500
9	Harrogate	987.1	-20	S	1	m	47	95	4	5	-	-	9+	9+	<150
10	Spurn Head	987.9	-14	SW'S	4	iro	46	95	7	6	1	8	7-8	10	4000
	Tynemouth	984.9	-20	SW	2	bc	51	65	7	2	-	-	4-6	4-6	2500
11	Inchkeith	981.7	-2	SW	4	bc	46	75	7	7	-	-	4-6	4-6	4000
	Leuchars	980.2	-22	SW	5	bc/pr	46	75	8	7	-	-	2-3	2-3	1500
12	Renfrew	982.7	-16	SW	5	c	45	85	7	8	-	-	7-8	7-8	4000
	Eskdalemuir	981.9	-46	WSW	6	c	42	75	7	5	-	-	9+	9+	1500
13A	Tiree	976.5	-18	SW'S	4	c	46	75	7	5	7	8	2-3	9+	2500
13B	Stornoway	970.8	+8	WSW	6	bc	45	85	7	4	1	-	4-6	4-6	4000
15	Dalwhinnie	979.0	+2	WSW	4	prs	39	85	8	5	-	-	7-8	7-8	2500
	Aberdeen	978.1	-8	SW	4	b	47	75	8	1	-	-	Tr.	Tr.	2500
	Wick	972.6	-10	SW	6	c	43	85	8	9	8	-	4-6	7-8	1500
16	Lerwick	970.3	-20	S	4	c	46	85	7	5	2	-	4-6	9	1500
17	Blacksod Point	978.3	-42	WNW	8	c/ph(r)	46 (45 struck)	85	7	3	-	-	7-8	7-8	800
18	Malin Head	977.2	-44	S	6	c	45	75	7	5	1	-	7-8	9+	2500
	Aldergrove	981.0	-48	S'E	4	c	45	75	7	5	7	-	4-6	9	5700
	Donaghadee	981.8	-40	SW	2	bc	48	75	7	5	2	-	4-6	4-6	2500
19	Birr Castle	982.8	-46	S	3	rr	48	85	6	6	-	-	10	10	2500
20	Valentia Obsy.	987.5	-10	SW'W	7	pro	47	75	8	6	-	-	7-8	7-8	2500
	Roches Point	987.5	-34	SW	4	ir	49	95	6	6	-	-	10	10	800

OBSERVATIONS at 18h. G.M.T. 23rd January

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)	987.7	-26	SSW	4	o	49	95	7	5	-	-	10	10	1500	1	*
Croydon	989.0	-30	SW'S	4	iro	49	95	6	6	2	-	7-8	10	450	1	*
S. Farnborough	988.2	-22	SW	4	o	49	95	7	5	-	-	10	10	800	1	*
Winchester	988.4	-14	WSW	5	iro	47	95	6	6	-	-	10	10	800	1	*
Boscombe Down	988.6	-10	WSW	5	id	47	95	7	6	-	-	10	10	450	1	*
Calshot, S'thmtn	989.6	-14	SW'S	4	ddo	48	95	6	6	-	-	10	10	800	1	3
Dungeness	*	*	SSW	8	rr	*	*	4	6	-	*	10	10	800	*	5
Lympne	989.8	-40	SSW	7	dF	47	95	1	6	-	-	10	10	<150	1	*
Shoeburyness	988.2	-46	SSW	6	iro	47	95	7	6	2	-	7-8	10	1500	1	*
Felixstowe	988.7	-32	S'W	5	rr	46	95	6	6	-	-	10	10	450	1	4
Gorleston	987.2	-36	SSW	5	iro	47	95	6	6	-	-	10	10	1500	1	4
Cranwell	983.7	-28	SW'S	4	c	45	95	7	5	7	-	4-6	7-8	2500	1	*
Cardington	985.7	-30	SSW	3	bc	46	95	7	5	7	-	4-6	4-6	1500	1	*
Birmingham	984.8	-30	SW	4	rr	46	95	7	6	-	-	10	10	800	1	*
Upper Heyford	986.3	-30	SSW	4	iro	46	95	6	6	-	-	9+	9+	1500	1	*
Leafield	985.9	-26	S'W	4	iro	45	95	5	6	-	-	7-8	7-8	1500	1	*
Ross-on-Wye	985.3	-28	SW	5	iro	47	95	6	6	-	-	10	10	2500	1	*
Portland Bill	988.8	-14	SW	6	Dr	49	95	6	5	-	-	10	10	800	2	6
Plymouth	991.9	+14	NW	5	c/r	47	85	7	6	-	-	9+	9+	1500	2	3
Falmouth	993.1	+24	W'S	7	c	46	85	7	3	3	-	4-6	7-8	4000	1	4
Scilly (St. Mary's)	993.6	+26	WNW	8	ir	46	75	6	9	-	-	4-6	4-6	2500	1	5
Guernsey	993.2	-4	SW	4	id	51	95	6	6	-	-	10	10	1500	2	4
Pembroke	986.9	0	W	6	q	48	75	7	3	-	-	4-6	4-6	1500	2	4
Holyhead	982.1	-18	SW'W	6	b	46	75	6	5	-	-	1	1	1500	1	3
Chester (Sealand)	981.6	-30	WSW	4	c/r	48	85	7	6	-	-	7-8	7-8	1500	1	*
L'pool (Bidston)	980.3	-30	WSW	5	c/r	46	85	7	6	-	-	9+	9+	2500	2	*
Harrogate	981.0	-26	SSE	3	iro	44	95	5	6	-	-	10	10	2500	1	*
Spurn Head	982.7	-14	SW'S	3	bc	44	95	7	3	7	-	2-3	2-3	4000	1	3
Tynemouth	978.7	-40	S	3	bc	45	75	7	5	-	-	4-6	4-6	1500	0	2
Inchkeith	976.0	-36	SE	2	c	43	75	8	4	2	-	2-3	7-8	4000	0	0
Leuchars	975.4	-34	SSE	3	b	43	75	7	5	3	1	Tr.	1	4000	1	*
Renfrew	974.2	-54	SSE	3	RR	43	95	6	6	-	-	10	10	1500	2	*
Eskdalemuir	974.7	-52	S'W	5	rr	41	85	6	6	2	-	7-8	10	1500	1	*
Tiree	970.2	-30	WSW	3	iR	40	95	6	6	2	-	9+	10	1500	1	3
Stornoway	970.1	+6	SSW	3	bc	42	95	8	4	2	-	2-3	4-6	4000	2	3
Dalwhinnie	973.2	-30	S	5	bc	36	85	8	5	-	-	4-6	4-6	4000	1	*
Aberdeen	975.9	-14	SSE	2	b	43	75	7	-	3	-	0	1	-	1	1
Wick	971.9	-6	SSW	6	c	43	85	8	8	2	8	4-6	10	1500	1	4
Lerwick	969.9	0	S'W	3	bc	46	75	7	5	-	-	4-6	4-6	1500	1	*
Blacksod Point	980.9	+56	WNW	8	c/ph(r)	44	85	7	3	-	-	7-8	7-8	1500 (220 struck)	1	8
Malin Head	969.4	-40	W	5	pr	41	95	7	9	-	-	7-8	7-8	1500	1	3
Aldergrove	973.3	-38	SW'S	6	c	41	75	7	8	-	-	9	9	800	1	*
Donaghadee	972.8	-36	SW	3	c	43	75	7	3	-	-	7-8	7-8	800	1	2
Birr Castle	983.1	+14	SW	3	pr	42	85	7	6	-	-	7-8	7-8	2500	1	*
Valentia Obsy.	990.5	+26	W'S	7	bc	47	65	8	6	-	-	4-6	4-6	2500	1	4
Roches Point	990.3	+22	W'N	4	pr	45	85	8	6	-	-	7-8	7-8	1500	1	4

PAST 24 HOURS. — WEATHER.

Stations	7h.–13h. 23rd (37)	13h.–18h. 23rd (38)	18h 23rd to 1h. 24th (39)	1h.–7h. 24th (40)
London (Kew)	orroro	cromoo	oircq	bq
Croydon	orrqmo	orrqroromo	cmoroqb	bbcqpro
S. Farnborough	orr	oddmo	crqbbc	bcpr
Winchester	orrmo	oddmcm	ormopr	bcproq
Boscombe Down	crrmcddm	cddmod	oddmoc	crrq
Calshot, S'thmtn	ormirorom	orrddm	oddoQRq	bq
Dungeness	r	r	*	bccob
Lympne	orrmoq	orrDf	orrKqrob	bc
Shoeburyness	orroroq	oroo ro	crrobc	bcbq
Felixstowe	orr	crrorrom	orrmobq	bbc
Gorleston	orrq	orroq	ocoirobq	bcq
Cranwell	rorcrr	cromo	circpr	bprob
Cardington	odorrcro	crorocbc	bcdrbc	bc
Birmingham	ororo	cbcor	orbc	bc
Upper Heyford	orrrodd	oddddbc	croqrrbc	bccqro
Leafield	orr	cmdbcc	orbc	bc
Ross-on-Wye	roro bc	corq	vrbccq	Qbcq
Portland Bill	Rdrzo	drczo	c	ciRcpr
Plymouth	oqddmc	bccrq	cbcprq	bccprq
Falmouth	omrqbc	ccoirndbcq	bcpq	Pq
Scilly (St. Mary's)	orrc	cir	cbc	bcp
Guernsey	orqir	oidoq	cprbc	cproq
Pembroke	oq c	orrbcq	bcpq	bcq
Holyhead	cmo	roRbcq	bzobcq	bcbq
Chester (Sealand)	docir	mocirq	bcbq	prbcq
L'pool (Bidston)	crrc	coirr	bcqpo	Qprq
Harrogate	ocdom	coiro	obPir	cbcQir
Spurn Head	cir	cprobc	corcbc	bcproq
Tynemouth	bc	bc	oirbcpq	bcq
Inchkeith	cbc	cbc	cbrbc	oiroc
Leuchars	bcprb	bbcb	bbcrbbc	crrroro
Renfrew	crorocq	cbcoR	Reirq	cqiroq
Eskdalemuir	cbcc	cbcerrm	cirphpr	ophirpcm
Tiree	probc	rRro	cRRrAIR	cproh
Stornoway	cirbc	cprbc	cido	cidpr
Dalwhinnie	rrprs	cbc	rrcrs	prsc
Aberdeen	b	b	b, cc	corr
Wick	cporc	c	c	c
Lerwick	oiroc	cporbc	bcc	cbc
Blacksod Point	irhqc	phrqc	phrqc	prqc
Malin Head	ciroc	cbccir	cQbcphr	bcpho
Aldergrove	cbcc	mrrcoqbc	cpro	cprpro
Donaghadee	bbc	bcphc	qiroc	cbcq
Birr Castle	bccor	orcpr	cprbc	bc
Valentia Obsy.	bccirpo	cprophbcq	bclcpcph	bccphq
Roches Point	coir	oircdo	cpobc	bcpobc

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.
m, mist, ,, 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

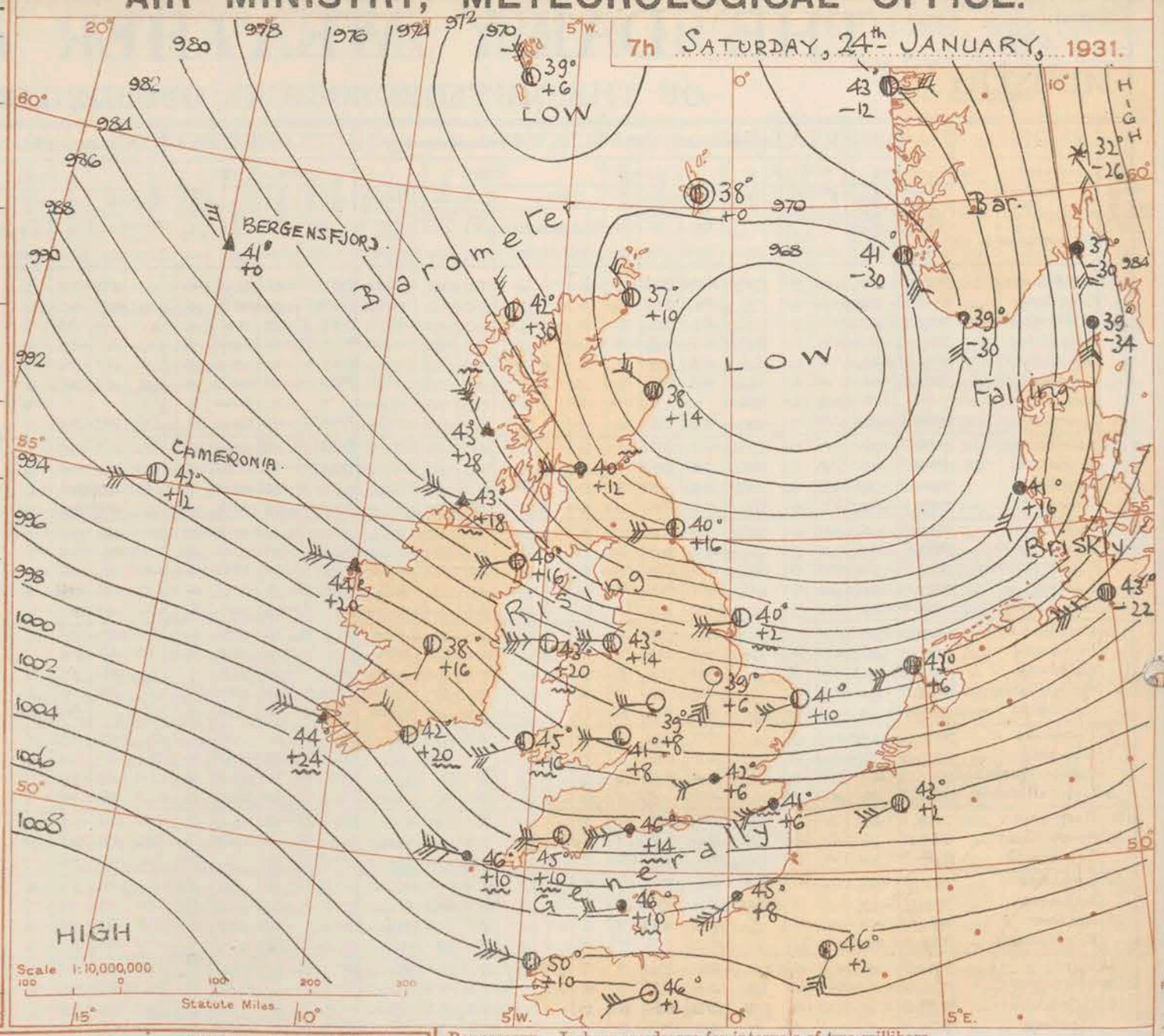
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 23rd January 1931.

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. 22nd
1	Tunbridge W.	orr	orr	41	48	7	15	0.0
	Bournemouth	oro	oro	41	50	3	6	0.0
	Ventnor ...	or	or fore	42	48	7	4	0.0
	Southsea ...	or	oro	42	49	13	5	0.0
	Bognor Regis	orr	orr	43	48	8	8	0.0
	Littlehampton	cr	crorc	42	48	7	8	0.0
	Worthing ...	or	or,r	44	49	6	7	0.0
	Brighton ...	ro	ro	44	48	5	5	0.0
	Eastbourne†	rr	rrrr,	45	49	4	9	0.0
	Hastings† ...	orr	orr°	42	48	4	9	0.0
	Folkestone ...	orrm°	orrm°	42	47	4	13	0.0
	Dover... ...	orr	ord	43	48	3	13	0.0
	Deal	rr	rr	42	48	2	19	0.1
	Ramsgate ...	rr	rr	43	47	1	7	0.0
	Margate ...	cr	cr	42	48	2	5	0.0
2	Southend ...	org	ord°	41	47	1	3	0.1
	Maldon ...	rr	ro	41	49	4	5	0.0
	Clacton-on-Sea	orr	orrd	41	45	2	6	0.0
	Dovercourt ...	roc	roc	42	47	2	6	0.0
	Lowestoft ...	orror	oror	40	46	3	5	0.0
	Skegness ...	odrm°	rm°o	40	47	2	2	0.0
	Mablethorpe	orm°	orm°o	39	47	3	2	0.0
	Cleethorpes ...	ro	r°oc	38	48	1	2	0.0
3	Leamington S.	oro	c	40	50	4	3	0.8
4	Cheltenham†	or°rc	bcc	41	50	2	2	2.2
5	Bath	rrc	bccr	43	51	8	3	0.5
	Weymouth ...	dDrp	idc	43	50	8	3	0.0
	Jersey ...	rr	rc	48	51	7	5	0.0
	Torquay ...	oRqr	mordbR	46	52	14	3	0.2
	Penzance ...	c	cir	47	51	23	1	0.7
	St. Ives ...	c	p	45	50	24	2	0.5
	Bude	cbc	bccr	45	50	13	2	2.4
	Ilfracombe ...	obbc	bcP	44	51	19	2	2.6
6	Aberystwyth	circ	cr	41	48	10	4	0.0
7	Llandudno ...	c	circr	43	51	2	3	1.1
	Colwyn Bay...	o	obcrr	41	51	3	3	0.7
	Rhyl	cr°	bccr	40	51	1	1	0.8
8	Wallasey ...	rcbc	cir	41	49	0.3	2	0.3
	Southport‖ ...	oco	ocor°	41	50	6	3	1.1
	Blackpool ...	oro	cor	40	48	11	0.5	0.6
	Morecambe ...	rrcdp	cbcbr	39	47	15	1	0.5
9	Ilkley... ...	oc	iro	38	49	2	Trace	0.0
10	Berwick-on-T.	bc	bc	36	46	Trace	–	2.2
11	Dunbar ...	bc	bcb	40	48	2	–	3.2
12	Douglas ...	bcc	bcorcb	39	49	8	4	4.2

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



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

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

Districts	Forecasts
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Wind westerly, fresh or strong; bright periods; occasional squally showers, perhaps with hail locally; moderate temperature.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind westerly, strong or gale, moderating slowly; bright intervals; squally showers of rain or hail; moderate temperature.
9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Wind west or northwest, strong or gale, moderating slowly; bright intervals; squally showers of rain or hail, or perhaps snow on high ground; rather cold, perhaps night frost.
13. A. W. Scotld. B. N.W. Scotland.	As 15 - 16.
14. Mid-Scotland	As 8 - 13.
15. N.E. Scotland 16. Orkneys and Shetlands.	Wind mainly north or northwest, strong at times, squally; bright intervals and wintry showers; rather cold, night frost.
17. N.W. Ireland 18. N.E. Ireland	As 8 - 13.
19. S.E. Ireland 20. S.W. Ireland	As 5 - 7.

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

GENERAL INFERENCE.

A deep and complex depression centred between Scotland and Norway is moving eastwards and minor disturbances are likely to travel eastwards across the British Isles. Bright intervals and squally showers of rain or hail may be expected and probably some snow locally on high ground in the North. The strong northwest or west winds will tend to decrease.

FURTHER OUTLOOK.

Probably changeable, but with considerable bright periods: perhaps somewhat colder.

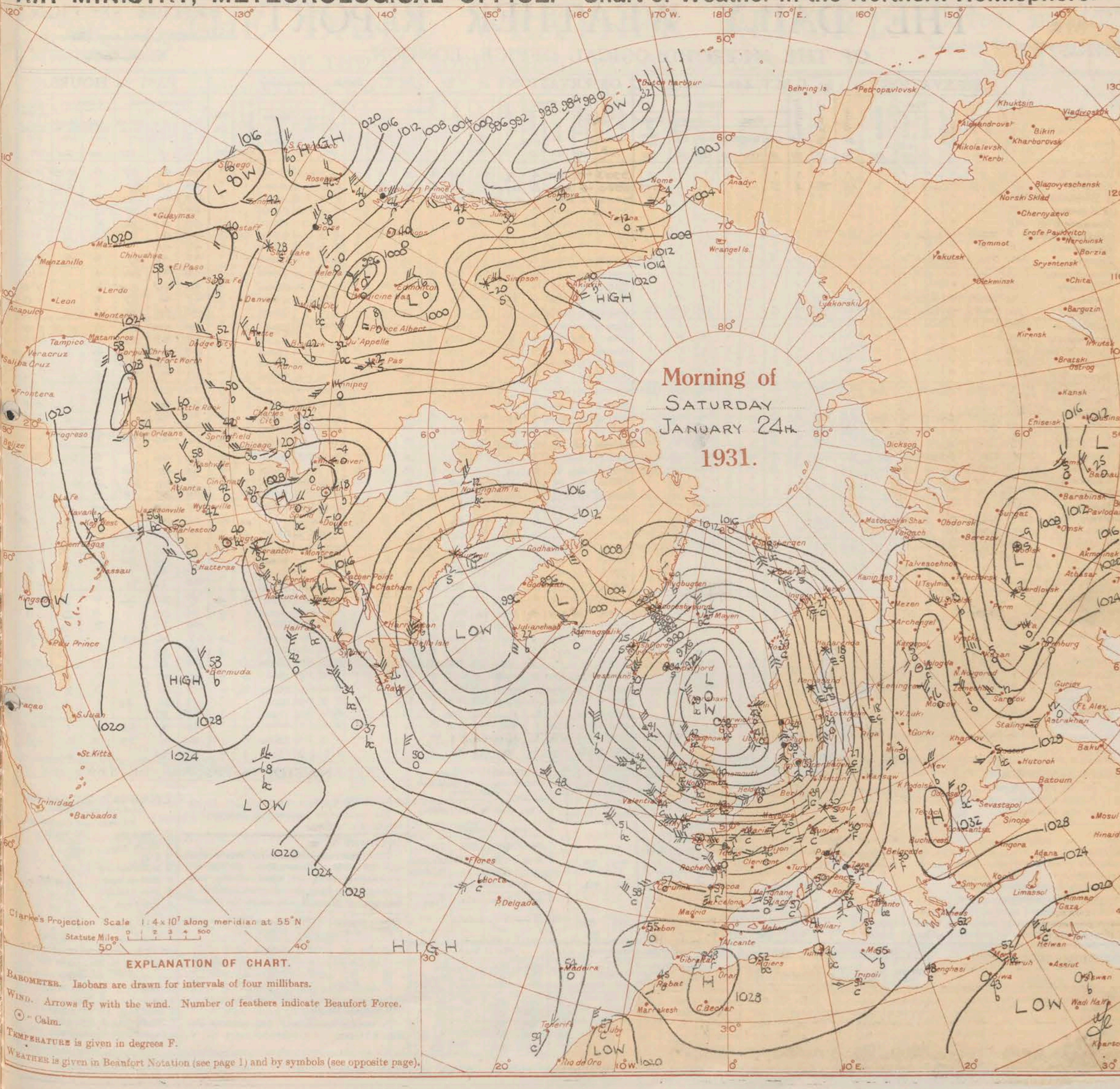
Times of issue of gale warnings.

South Cone at 0815 on 21st in 13A, 13B, 15, 16.
South Cone at 0200 on 22nd in 5, 6, 7, 8, 12.
South Cone at 1840 on 22nd in 1, 2, 10, 11, 17, 18, 19, 20.

Forecasts issued at 1015 G.M.T.

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

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



EXPLANATION OF CHART.

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, January 24th 1931.

No. 25,265.

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

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	991.6	+22	W'S	5	b	43	75	8	5	–	–	1	1	800
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	993.4	+18	SW'W	5	bq	44	75	7	–	–	–	0	0	–
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	992.0	+38	WSW	5	b	42	85	8	5	–	–	1	1	1500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	985.3	+20	W'S	4	b	42	95	8	–	–	–	0	0	–
	Cranwell ...	240	983.5	+8	SW'W	5	pr	41	85	7	6	–	–	2.3	2.3	1500
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill...	32	993.8	+14	W'S	7	bc	46	75	7	4	7	–	4.6	4.6	1500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	997.4	+6	W'S	6	bc	45	75	8	3	–	–	4.6	4.6	4000
	Scilly (St. Mary's)	163	997.1	+2	WNW	8	bc	47	75	7	2	–	–	4.6	4.6	4000
	Guernsey ...	175	999.0	+10	W	4	bc/pr	44	85	8	5	–	–	4.6	4.6	2500
6	Pembroke ...	142	990.5	+4	WSW	8	bcq	46	65	8	8	–	–	4.6	4.6	2500
7	Holyhead ...	26	985.6	+18	W	8	bcq	44	75	7	8	–	–	4.6	4.6	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	979.3	-2	W	6	bc	42	85	7	–	2	–	0	2.3	–
	Tynemouth ...	67	972.8	-14	W	6	bc	41	75	8	9	–	–	2.3	2.3	1500
11	Inchkeith ...	190	970.3	-4	WSW	5	ir₀	38	95	7	5	1	–	4.6	7.8	2500
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree ...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	969.4	0	–	0	o	41	95	7	6	–	–	10	10	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick ...	81	968.7	-12	WNW	2	c	37	85	8	5	1	–	4-6	9	2500
16	Lerwick ...	54	969.0	-8	–	0	c	41	95	7	5	2	–	4-6	9	1500
17	Blacksod Point	18	986.3	+20	WNW	8	c/ph(r)	44	65	7	3	–	–	7-8	7-8	800
18	Malin Head ...	52	978.6	+20	NW'W	6	bc/ph(r)	43	65	7	3	–	–	4.6	4.6	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	992.0	-10	WN	7	PR	43	95	8	6	–	–	10	10	1500
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 24th January and **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 23rd Hrs. (36)
London (Kew)...	992.3	+10	SW	4	q	41	85	8	5	4	–	1	2-3	1500	1	*	49	41	37	5	0.5	0.0
Croydon	993.0	+6	WSW	5	bc/pr	42	75	8	8	3	–	2-3	4-6	1500	1	*	49	42	37	11	0.6	0.0
S. Farnborough	992.6	+2	SW'W	4	c/pr	41	85	8	5	4	1	7-8	7-8	2500	1	*	49	40	35	9	1	0.0
Winchester	993.6	0	WSW	5	pr₀	41	75	7	5	–	–	4-6	4-6	2500	1	*	49	40	37	11	1	0.0
Boscombe Down	994.0	+10	WSW	6	rr	39	95	7	6	–	–	9+	9+	800	1	*	49	39	36	8	1	*
Calshot, (S'thmtn)	994.5	+8	SW'W	5	q	42	75	7	5	5	–	2-3	4-6	2500	0	3	49	41	37	10	2	0.0
Dungeness	*	*	SW	6	c	*	*	7	5	1	*	4-6	7-8	2500	*	4	48	44	*	13	4	*
Lympne	993.8	+6	WSW	5	bc	41	75	9	5	–	–	2-3	2-3	1500	1	*	47	40	37	16	4	0.0
Shoeburyness	991.4	+6	W	6	q	42	85	8	5	–	–	2-3	2-3	4000	1	*	48	41	36	4	1	0.0
Felixstowe	990.5	+2	SW	4	bc	42	75	8	5	–	–	2-3	2-3	2500	1	3	46	40	38	6	1	0.0
Gorleston	986.7	+10	WSW	4	bc	41	95	8	4	–	–	2-3	2-3	2500	0	2	47	41	37	8	1	0.0
Cranwell	986.0	+6	SW'W	6	b	39	85	7	5	3	–	Tr.	1	2500	1	*	48	38	36	3	2	0.0
Cardington	989.9	+10	WSW	5	ir₀	41	85	7	5	–	–	7-8	7-8	1500	1	*	49	39	36	3	0.5	0.0
Birmingham	989.7	+8	W	4	b	39	85	8	1	–	–	1	1	2500	1	*	49	39	36	3	1	0.4
Upper Heyford	990.8	+12	W	5	ir₀	40	75	8	6	–	–	9	9	1500	1	*	48	38	35	4	0.6	*
Leafield	990.7	+6	WSW	5	c	40	75	8	6	–	–	7-8	7-8	1500	1	*	47	38	35	5	1	0.2
Ross-on-Wye	991.8	+8	W	5	q	41	75	8	1	–	3	2-3	2-3	4000	1	*	51	41	36	5	0.1	1.7
Portland Bill	995.0	+14	W'S	8	PR	46	75	8	3	–	–	7-8	7-8	1500	1	5	50	43	*	5	1	*
Plymouth	998.2	+10	W	5	bc	45	75	7	8	–	–	2-3	2-3	2500	1	4	51	43	40	5	0.6	0.8
Falmouth	997.8	+6	WNW	7	bc	46	65	8	3	–	–	4-6	4-6	4000	1	3	51	42	*	3	2	0.6
Scilly (St. Mary's)	999.7	+10	WNW	8	pr	46	65	7	3	–	–	4-6	4-6	4000	1	5	50	44	*	2	0.2	0.5
Guernsey	1000.2	+10	W	4	o/pr	46	75	7	5	–	–	10	10	2500	1	5	51	44	38	8	3	0.0
Pembroke	993.2	+16	WSW	7	q	45	85	7	3	–	1	4-6	4-6	1500	1	4	50	44	*	5	0.1	0.6
Holyhead	988.7	+20	W	8	q	43	75	7	8	–	9	1	1	2500	1	4	49	42	40	3	–	0.7
Chester (Sealand)	987.6	+14	W	5	bc	43	65	8	5	–	–	4-6	4-6	2500	1	*	52	42	37	5	0.1	0.6
L'pool (Bidston)	986.1	+16	W'S	7	bc/pr	42	65	8	9	–	–	4-6	4-6	4000	1	*	48	38	36	4	1	0.1
Harrogate	982.4	+10	SW	7	ir	39	85	8	3	–	–	2-3	2-3	2500	1	*	47	38	35	0.4	4	0.0
Spurn Head	981.5	+2	W	6	q	40	85	7	–	2	8	0	4-6	–	0	5	46	39	*	1	2	0.0
Tynemouth	975.5	+16	W	6	bc	40	75	7	9	–	–	4-6	4-6	2500	0	2	51	39	35	–	1	*
Inchkeith	971.6	+8	WSW	6	c	40	85	8	5	2	–	2-3	9+	2500	0	4	47	37	36	–	2	3.5
Leuchars	972.3	+10	W	6	r₀r₀	41	75	8	5	2	–	9+	10	4000	1	*	47	34	30	0.1	4	4.7
Renfrew	978.5	+12	W	4	ir₀	40	85	6	6	2	–	9	10	1500	1	*	46	36	30	3	4	1.8
Eskdalemuir	977.3	+4	W	6	ps	35	95	6	6	–	–	10	10	1500	1		43	33	31	1	11	0.8
Tiree	973.5	+28	NW	7	c/ph(r)	43	75	7	5	2	–	7-8	10	1500	1	4	47	39	36	6	9	2.2
Stornoway	973.0	+30	NW	3	bc	42	85	7	3	–	–	4-6	4-6	4000	1	2	46	39	*	3	3	1.1
Dalwhinnie	973.3	+16	WNW	4	prs	37	85	7	5	–	–	7-8	7-8	1500	1		40	33	*	9	5	1.6
Aberdeen	969.8	+11	NW	4	o/r	38	85	7	6	–	–	10	10	1500	1	2	47	36	33	–	3	5.5
Wick	969.6	+10	NW	3	c	37	95	8	5	1	–	4-6	10	2500	1	3	46	34	*	0.3	–	*
Lerwick	970.3	0	–	0	bc	38	95	8	5	–	–	2-3	2-3	1500	0		45	37	*	1	–	0.0
Blacksod Point	989.5	+20	WNW	8	c/ph(r)	44	65	7	3	–	–	7-8	7-8	800	0	8	47	40	*	4	2	*
Malin Head	982.2	+18	WNW	6	bc/ph(r)	43	65	7	3	–	–	4-6	4-6	2500	1	4	45	41	*	3	2	2.6
Aldergrove	986.6	+20	SW	4	e/pr	38	85	7	5	–	–	7-8	7-8	1500	1	*	47	35	32	1	1	1.6
Donaghadee	983.9	+16	W	5	q	40	75	7	3	2	–	4-6	4-6	1500	1	2	49	37	*	2	1	*
Birr Castle	982.0	+16	SSW	1	bc	38	95	8	5	–	–	2-3	2-3	4000	1	*	48	37	33	3	1	1.4
Valentia Obsy.†	998.4	+24	W'N	6	c/ph(r)	44	75	8	3	–	–	7-8	7-8	2500	1	4	50	41	39	3	3	1.7
Roches Point	997.3	+20	NW	4	bc	42	85	8	3	–	–	2-3	2-3	1500	1	4	50	40	*	4	2	*

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

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	orror₀r₀	cr₀m₀o	oircqbq	49	41	37	5	0.5	0.0	*	*	6
Croydon	217	orrqm₀	orrq₀r₀m	em/pcq	49	42	37	11	0.6	0.0	*	*	7
Greenwich (Royal Observatory)	149	crd	cdd₀	cpbcq	49	41	33	4	1	0.0	93	79	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.0	*	*	*
Westminster (St. James' Park)	27	*	*	*	51	41	35	4	*	0.0	86	74	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	0.0	*	*	*
Camden Square	110	or	oro	*	49	41	37	4	–	*	*	91	*
Kensington Palace	80	or	odro	*	49	41	34	4	0.5	*	At 18h. 93	83	*
Hampstead Observatory	450	ormbc	bcm	*	46	36	31	6	Tr.	0.0	*	91	*

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

South Kensington. Max.	Time.	Min.	Time.
0.6	19h. 23rd.	<0.3	23h. 23rd. – 7h. 24th.

Kew Observatory. Max.	Time.	Min.	Time.
Defective Record			

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 23rd January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 24th January 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	999.8	WSW	4	ir	46	1001.7	W	3	c	48	50	46	3	4
Brussels	996.4	SSW	3	rr	45	994.7	SW'W	4	c	43	48	41	5	5
Berlin	1010.3	SSE	2	z	39	995.5	S	2	e/r	39	43	36	–	5
Zürich	1016.4	N	1	m	37	1009.8	NW	4	r₀r₀	45	48	36	–	0.3
Rome	1027.3	SSW	2	e	50	1023.8	S	4	c	5	54	48	–	3

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.
Objects not visible at

0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1¼ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6¼ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Sunday, 25th January 1931.

No. 25,266.

OBSERVATIONS at 13h. G.M.T. 24th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours (2)	Wind Direc. (3)	Wind Force 0-12 (4)	Weather (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0-10 (12)	Cloud Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)...	995.9	+8	W	5	c	46	65	8	5	–	–	7-8	7-8	2500
	Croydon ...	996.9	+22	W'S	6	c	47	55	6	8	–	–	7-8	7-8	1500
	S. Farnborough	996.1	+10	W'N	5	c	48	65	8	2	–	–	7-8	7-8	1500
	Winchester ...	997.5	+10	W'N	5	bc/pr	45	75	8	2	–	–	4-6	4-6	2500
	Boscombe Down	997.8	+14	W	5	bc	45	75	8	7	–	–	4-6	4-6	2500
	Calshot, S'thmtn	998.5	+14	WNW	6	bc/ps	45	75	8	8	–	–	2-3	2-3	2500
	Dungeness ...	*	*	W	6	bc	*	*	7	5	–	*	4-6	4-6	2500
	Lympne ...	995.8	+14	W	6	c	45	65	8	8	–	–	9	9	2500
2	Shoeburyness	994.2	+18	W'S	5	bc	47	65	7	4	–	–	4-6	4-6	4000
	Felixstowe ...	993.0	+14	W'S	5	bc	47	55	9	1	–	–	4-6	4-6	1500
	Gorleston ...	989.5	+14	W	5	bc	45	85	6	8	–	–	4-6	4-6	2500
	Cranwell ...	989.8	+28	W	6	c	43	75	8	8	–	–	9+	9+	1500
3	Cardington ...	992.5	+18	W'S	7	bc	47	55	8	1	–	–	2-3	2-3	2500
	Birmingham ...	994.1	+10	W	5	bc	43	75	8	6	–	–	4-6	4-6	2500
	Upper Heyford	995.0	+14	W	6	q	44	65	8	5	–	–	7-8	7-8	1500
	Leafield ...	995.1	+14	W	6	bc	43	65	9	1	–	–	4-6	4-6	4000
4	Ross-on-Wye ...	996.4	+20	W	5	q	46	65	8	1	–	3	4-6	4-6	4000
5	Portland Bill...	999.7	+14	W	6	bc	47	65	8	3	–	–	4-6	4-6	1500
	Plymouth ...	1002.8	+18	WNW	6	b	47	65	8	9	–	–	1	1	2500
	Falmouth ...	1004.7	0	W	6	bc	47	75	8	3	–	–	4-6	4-6	4000
	Scilly (St. Mary's)	1005.3	+20	WNW	8	bc	49	65	7	3	–	1	4-6	4-6	4000
	Guernsey ...	1004.1	+16	W	4	bc/pr	49	65	7	7	–	–	4-6	4-6	2500
6	Pembroke ...	996.9	0	WSW	7	q	45	75	7	2	–	–	4-6	4-6	2500
7	Holyhead ...	993.9	+22	W'N	8	q	45	75	7	5	–	–	7-8	7-8	1500
	Chester (Sealand)	992.4	+26	W	6	c/pr	45	65	8	8	–	1	4-6	7-8	4000
8	L'pool (Bidston)	990.8	+26	W	7	q	43	75	7	9	–	–	7-8	7-8	2500
9	Harrogate ...	987.4	+40	SW	6	pr	42	75	8	3	–	9	2-3	4-6	2500
10	Spurn Head ...	984.5	+2	WNW	8	c	44	65	7	4	7	–	4-6	7-8	4000
	Tynemouth ...	981.1	+40	W	6	bc	43	75	6	9	–	–	4-6	4-6	2500
11	Inchkeith ...	980.5	+40	W	7	c	42	85	8	4	7	–	4-6	9+	4000
	Leuchars ...	980.9	+48	W	5	q	43	75	9	5	7	–	1	9+	2500
12	Renfrew ...	986.3	+40	WNW	4	c/pr	41	85	8	9	3	–	7-8	9	1500
	Eskdalemuir ...	984.9	+42	WNW	6	c/ps	38	85	8	5	7	4	7-8	9+	800
13A	Tiree ...	985.6	+30	W'N	5	bc/ip	44	65	8	3	4	3	4-6	4-6	2500
13B	Stornoway ...	980.5	+26	NW	5	bc	45	75	8	3	6	–	2-3	4-6	4000
15	Dalwhinnie ...	980.6	+28	WNW	4	c	38	85	8	5	–	–	7-8	7-8	1500
	Aberdeen ...	976.8	+40	WNW	5	q	42	85	8	9	3	8	4-6	7-8	1500
	Wick ...	975.6	+30	WNW	4	c/p	43	85	8	9	7	–	4-6	9	1500
16	Lerwick ...	972.0	+10	–	0	bc	40	95	8	5	3	–	4-6	4-6	1500
17	Blacksod Point	996.0	+36	WNW	7	o/ph	42	85	7	3	–	–	10	10	800
18	Malin Head ...	988.5	+24	W	6	bc/phr	43	65	7	3	–	–	4-6	4-6	2500
	Aldergrove ...	991.3	+30	WSW	5	c/pr	40	85	7	8	–	3	4-6	7-8	2500
	Donaghadee ...	988.8	+18	W	5	q	42	75	8	4	3	–	4-6	4-6	4000
19	Birr Castle ...	997.3	0	WNW	4	bc	44	75	8	8	–	–	4-6	4-6	2500
20	Valentia Obsy.	1002.8	+14	W'S	5	bc	47	65	8	1	–	#1	2-3	4-6	2500
	Roches Point...	1000.8	+14	NW	4	bc	45	75	8	8	–	–	2-3	2-3	1500

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

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)...	1000.6	+36	W	4	b	43	65	6	5	–	–	Tr	Tr	2500	1	*
	Croydon ...	1000.5	+22	WSW	4	z	43	75	6	4	–	–	1	1	1500	1	*
	S. Farnborough	1000.9	+30	W	5	b	42	65	8	1	–	–	1	1	2500	1	*
	Winchester ...	1001.9	+24	W'N	6	b	42	75	8	4	–	–	1	1	4000	1	*
	Boscombe Down	1002.7	+30	W'N	5	b	41	75	7	3	–	–	1	1	1500	1	*
	Calshot, S'thmtn	1002.6	+26	W'N	5	b/pr	43	75	8	5	–	–	1	1	2500	0	3
	Dungeness ...	*	*	W	6	b	*	*	7	5	–	*	1	1	4000	*	4
	Lympne ...	999.5	+16	W	5	b	41	75	7	–	–	–	0	0	–	1	*
2	Shoeburyness	998.3	+28	W'S	5	bc	43	75	7	4	–	–	2-3	2-3	4000	0	*
	Felixstowe ...	997.3	+30	W'N	4	b	44	65	9	–	–	–	0	0	–	0	4
	Gorleston ...	993.7	+22	W'S	5	b	43	75	7	1	–	–	Tr	Tr	4000	0	3
	Cranwell ...	994.8	+32	W	4	c	41	75	7	8	–	–	7-8	7-8	1500	1	*
3	Cardington ...	997.8	+26	W'S	5	b	41	75	8	5	–	–	Tr	Tr	2500	1	*
	Birmingham ...	998.4	+28	W	4	b	41	75	8	5	–	–	1	1	2500	1	*
	Upper Heyford	999.6	+32	W	6	q	41	75	8	5	–	–	2-3	2-3	5700	1	*
	Leafield ...	999.6	+20	W'S	5	b	40	65	8	4	–	–	1	1	4000	1	*
4	Ross-on-Wye ...	1000.3	+30	W	4	bc	42	75	8	9	–	–	2-3	2-3	4000	1	*
5	Portland Bill...	1003.7	+22	W	6	bc	47	65	8	3	–	–	2-3	2-3	1500	1	5
	Plymouth ...	1006.3	+20	W	4	bc	46	75	8	9	–	8	4-6	4-6	2500	1	3
	Falmouth ...	1007.8	+20	WSW	5	bc	45	85	8	3	3	–	4-6	4-6	4000	1	3
	Scilly (St. Mary's)	1007.8	+20	W	7	c	47	75	7	8	–	8	7-8	9	4000	0	5
	Guernsey ...	1008.3	+26	W	4	bc	47	65	7	5	–	–	4-6	4-6	2500	1	3
6	Pembroke ...	1001.0	+20	WSW	7	q	46	75	7	3	8	–	4-6	4-6	1500	1	4
7	Holyhead ...	998.0	+26	W	7	q	44	75	7	1	–	–	1	1	1500	1	4
	Chester (Sealand)	996.9	+28	W'S	5	bc	43	65	8	8	–	–	4-6	4-6	2500	1	*
8	L'pool (Bidston)	995.2	+26	W'S	6	pr	42	75	8	9	–	–	9+	9+	1500	0	*
9	Harrogate ...	991.6	+14	SW	5	q	40	75	7	6	–	–	Tr	Tr	2500	1	*
10	Spurn Head ...	989.9	+14	W'N	7	bc	41	75	7	–	2	–	0	2-3	–	0	5
	Tynemouth ...	988.3	+40	W	4	bc	40	75	6	2	–	–	2-3	2-3	2500	0	2
11	Inchkeith ...	987.2	+26	W	6	bc	40	85	8	5	–	–	2-3	2-3	2500	0	3
	Leuchars ...	986.0	+34	W	5	b	39	75	9	5	–	–	1	1	4000	1	*
12	Renfrew ...	990.8	+30	W	4	pr	38	85	7	9	–	–	10	10	1500	2	*
	Eskdalemuir ...	990.0	+34	WNW	5	prs	36	85	7	9	–	–	7-8	7-8	1500	1	*
13A	Tiree ...	988.9	+20	W	6	bc/p	43	65	8	3	7	3	4-6	4-6	2500	1	3
13B	Stornoway ...	983.3	+10	WNW	4	prs	40	85	7	9	–	–	7-8	7-8	4000	1	2
15	Dalwhinnie ...	986.2	+20	WNW	3	c	34	85	8	5	–	–	7-8	7-8	2500	1	*
	Aberdeen ...	983.3	+30	WNW	3	b	39	75	8	–	–	–	0	0	–	1	2
	Wick ...	980.2	+32	W	2	bc	38	85	8	9	6	1	2-3	4-6	2500	1	2
16	Lerwick ...	975.0	+16	WNW	3	bc	42	85	8	5	6	–	2-3	4-6	1500	0	*
17	Blacksod Point	998.6	+16	WNW	6	c	42	85	7	3	7	–	4-6	7-8	1500	1	5
18	Malin Head ...	992.3	+26	WNW	5	bc/ph	39	85	7	3	–	–	4-6	4-6	2500	1	4
	Aldergrove ...	995.1	+24	SW	3	bc	36	85	8	8	–	–	2-3	2-3	2500	1	*
	Donaghadee ...	993.4	+20	W	3	bc	40	75	7	5	2	–	2-3	4-6	2500	0	2
19	Birr Castle ...	1000.9	+16	SW	4	pr	39	85	7	3	–	–	9	9	2500	1	*
20	Valentia Obsy.	1004.5	+8	W'S	4	bc	46	65	8	8	–	–	4-6	4-6	2500	1	4
	Roches Point...	1004.0	+14	NW	4	c	45	65	8	3	–	–	7-8	7-8	1500	0	3

PAST 24 HOURS. WEATHER.

District	Stations	7h.–13h. 24th (37)	13h.–18h. 24th (38)	18h 24th to 1h. 25th (39)	1h.–7h. 25th (40)
1	London (Kew)...	bz$_o$bccy	cybcb	bcw	b
	Croydon ...	bcb	cbcz$_o$q	bz$_o$b	bbc
	S. Farnborough	bcp$_o$bcq	bcb	b	b, c
	Winchester ...	crbcpr$_o$b	bcby	bbcpr$_o$	bcprbc
	Boscombe Down	crrqbcpr	bc/pb	bcpr$_o$	bcprb
	Calshot, S'thmtn	bcprqprbcq	bqpr$_o$bq	bbcprbcq	bcr$_o$Rqbc
	Dungeness ...	bc	b	*	bc
	Lympne ...	bcbvc	b	b	bbcc
2	Shoeburyness	bqbcq	bcqbq	bqw	bcc
	Felixstowe ...	bvqbcvqy	bcvqy	bvq	b, c
	Gorleston ...	bcq	bcq	bcq	bcq
	Cranwell ...	bcprbc	cpr$_o$	cbm$_o$	bm$_o$b
3	Cardington ...	b by	byb	b	b, bx
	Birmingham ...	bbc	cpr$_o$bc	bpr$_o$	b
	Upper Heyford	crbcq	cbcbq	bq	bbc
	Leafield ...	bbc	bcp$_o$qb	b	b
4	Ross-on-Wye ...	bcq ip	bcqcb	pq bc	qbbcb
5	Portland Bill...	cPRcbc	bcpr$_o$bc	bccrrl	cirbc
	Plymouth ...	bcqpr$_o$h$_o$b	bcpr$_o$bc	bcprq	bcpr$_o$
	Falmouth ...	bcPhq	bcPq	bcPq	bcPhq
	Scilly (St. Mary's)	bcpc	cbcc	bccpr	cr bcp
	Guernsey ...	bccpr	bcphr	cprbc	cl prc
6	Pembroke ...	bcq	bcq	bcq	bcq
7	Holyhead ...	bbcq	bcbq	bbcq	bcbq
	Chester (Sealand)	pr$_o$bcq	ph bc/pq	bcq	bc
8	L'pool (Bidston)	cqoq	cqpr	bcprh	cq prb
9	Harrogate ...	bcoqp$_o$	bclxp$_o$	cbp$_o$	cbp$_o$
10	Spurn Head ...	cpr$_o$	bc	bc	bcq
	Tynemouth ...	bcp$_o$q	bcq	bc	bcq
11	Inchkeith ...	c	cbc	bc	b
	Leuchars ...	cir$_o$cvq	crq bcbv	bv bx	bx
12	Renfrew ...	cir$_o$cprq	Phrqpr	prbcq pr	pr prhq
	Eskdalemuir ...	opsprs c	cbcp$_o$c o/s	cprs bc	bccs bc
13A	Tiree ...	cPRH bc	cPH	bcphr	phr
13B	Stornoway ...	cpr	bcpr$_o$	bcphr	bcprh
15	Dalwhinnie ...	prs c	prsbc	psc	cbc
	Aberdeen ...	ocoirscq	cqbc	b	b
	Wick ...	cprc	cprbc	b$_o$rbc	bcpr$_o$cri
16	Lerwick ...	bc	bc	bcp$_o$r	bcc pr
17	Blacksod Point	phq	phq	prhqc	prqc
18	Malin Head ...	bcq Phr	bcphr	bccq PHR	bc phr
	Aldergrove ...	cbcprhp$_o$	bcp$_o$bc	bcprs	bcx
	Donaghadee ...	bcq	bc	bc	bc
19	Birr Castle ...	bc	bcprc	bcpr	bcbx
20	Valentia Obsy.	bcp$_o$ph bc	bccpbc	bccprcph	bccp$_o$h
	Roches Point...	bcp$_o$bc	bc	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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,

R, heavy rain. r_o, slight rain. rr, continuous rain.

<, less than (for cloud height).

⊕, solar halo. ♁, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

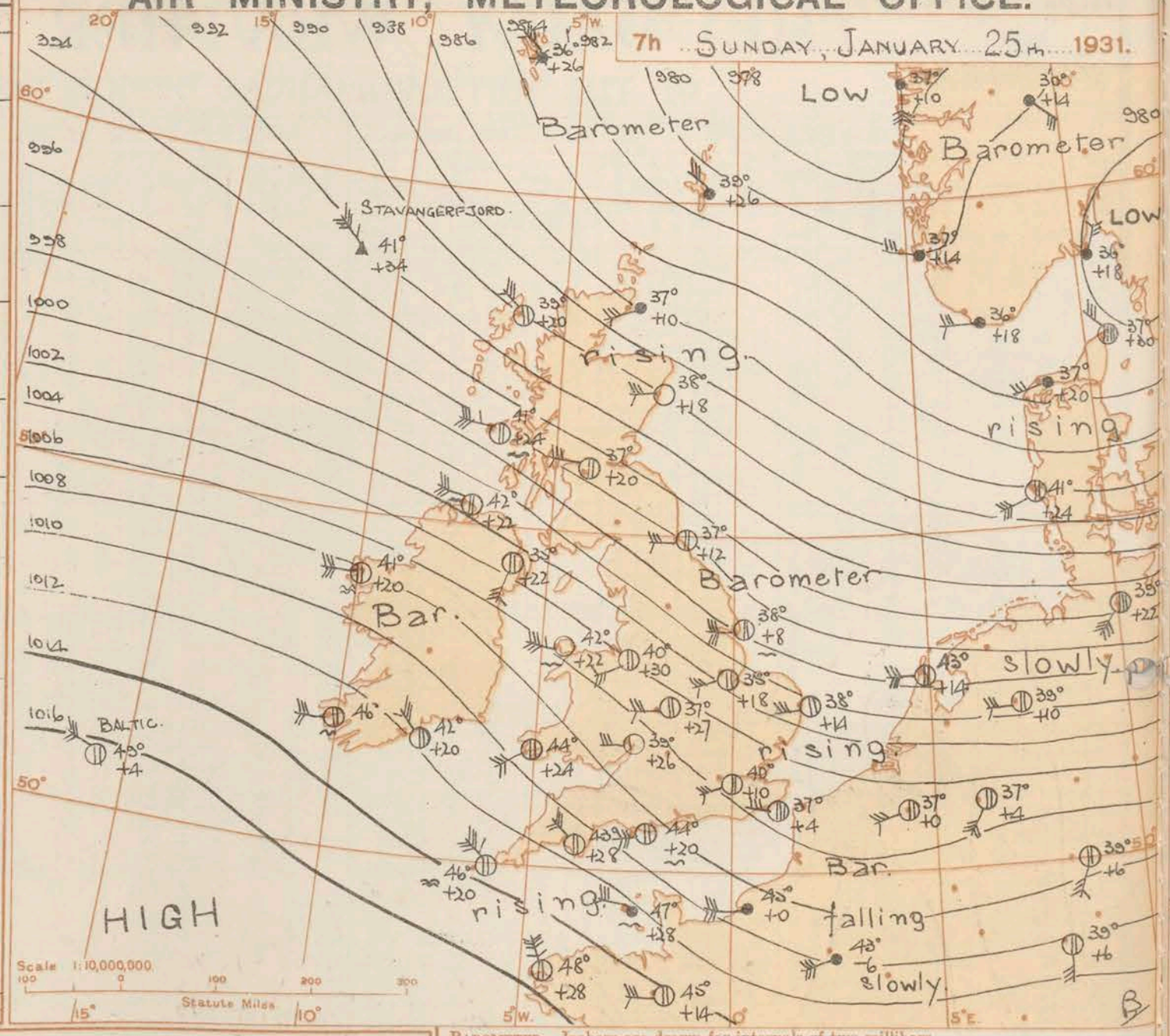
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for ... 24th January ..... 1931.

Districts.	Stations.	Weather. Fore-noon.	Weather. After-noon.	Temperature. Min. 9h. 23rd to 9h. 24th	Temperature. Max. 9h.—17h. 24th	Rainfall. Night. 17h. 23rd to 9h. 24th	Rainfall. Day. 9h.—17h. 24th	Sunshine. Sunrise to Sunset. 24th
1	Tunbridge W.	cbc	bc	39	47	2	–	5.3
	Bournemouth	b	b	40	49	1	–	6.6
	Ventnor ...	orb	b	42	48	4	–	6.4
	Southsea ...	b	cb	42	47	1	–	6.3
	Bognor Regis	bbc	bbc	40	48	2	–	6.8
	Littlehampton	bc	bc	42	48	2	–	7.1
	Worthing ...	b	b	43	49	2	–	6.7
	Brighton ...	bc	bc	43	48	4	–	6.1
	Eastbourne†	cbc	bcb	43	48	5	–	6.2
	Hastings† ...	bc	b	42	48	7	–	5.0
	Folkestone ...	bcb	b	41	48	5	–	6.6
	Dover... ...	bc	bcb	42	48	5	–	6.8
	Deal	bc	bc	42	48	5	–	6.4
	Ramsgate ...	bcb	b	41	46	2	–	6.7
	Margate ...	bc	bcc	41	48	1	–	7.0
2	Southend ...	bcb	bbc	41	47	1	–	5.7
	Maldon ...	cb	b	40	48	1	–	6.5
	Clacton-on-Sea	bc	bc	40	47	1	–	6.5
	Dovercourt ...	bc	bc	40	47	–	–	6.6
	Lowestoft ...	b	bcbc	39	44	1	–	6.9
	Skegness ...	bmo	bmo	40	45	0.3	–	6.1
	Mablethorpe	ocbcp	bcp	39	45	3	Trace	6.0
	Cleethorpes ...	cbrcb	bc	38	46	2	3	5.7
3	Leamington S.	bc	bc	39	46	1	–	6.2
4	Cheltenham†	bcb	bbc	40	49	1	–	7.8
5	Bath	bcpob	pobc	41	47	3	Trace	5.4
	Weymouth ...	bcbc	pcb	43	50	1	0.1	4.1
	Jersey ...	pcbc	bcp	45	50	3	Trace	5.3
	Torquay ...	hrpbc	qubppbcq	41	49	3	1	5.7
	Penzance ...	b	b	42	51	4	–	6.4
	St. Ives ...	bcp	bcp	42	48	1	1	4.5
	Bude	qbcpo	bq	42	50	0.3	–	5.0
	Ilfracombe ...	bcc	bcc	43	48	0.5	–	1.3
6	Aberystwyth	cirbc	bc	42	45	0.3	–	4.5
7	Llandudno ...	bcc	c	42	45	–	–	2.3
	Colwyn Bay...	obcoc	bcc	42	45	–	–	1.7
	Rhyl	bc	cbc	42	46	1	–	4.2
8	Wallasey ...	bccbc	cbcc	40	45	3	–	3.4
	Southport‖ ...	cbccbc	chbcb	42	44	0.1	0.2	~~1.7~~ 3.4
	Blackpool ...	cq	bcq	42	45	4	–	3.4
	Morecambe ...	rcbbc	bcc	41	45	6	–	3.3
9	Ilkley... ...	cpo	bc	38	43	5	Trace	0.6
10	Berwick-on-T.	cpR	ocbc	38	44	3	Trace	0.0
11	Dunbar ...	o	bcb	38	43	2	–	0.2
12	Douglas ...	bcq	bcq	40	44	1	–	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 the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 5/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. ⚡ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 25th January, 1931
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands	Wind between west and northwest, fresh; mainly bright, but scattered showers; temperature moderate or rather low.
5. S.W. England 6. South Wales 7. North Wales 8. N.W. England	Wind northwest to west, fresh, strong locally, moderating; mainly bright but scattered showers of rain or hail; temperature moderate or rather low.
9. N. Midlands 10. N.E. England 11. S.E. Scotland 12. S.W. Scotland & Isle of Man	Wind northwest or west, fresh; mainly bright, wintry showers; rather cold.
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 northwest or west, fresh, strong and squally on coasts at first, moderating; bright periods, wintry showers; rather cold.
19. S.E. Ireland 20. S.W. Ireland	As 5 - 8.

GENERAL INFERENCE.

The depression over Southern Scandinavia is moving away northeast and pressure is rising over the British Isles. Winds will be from between west and northwest strong locally at first but decreasing. Weather will be fair apart from wintry showers particularly in the West and North.

FURTHER OUTLOOK.

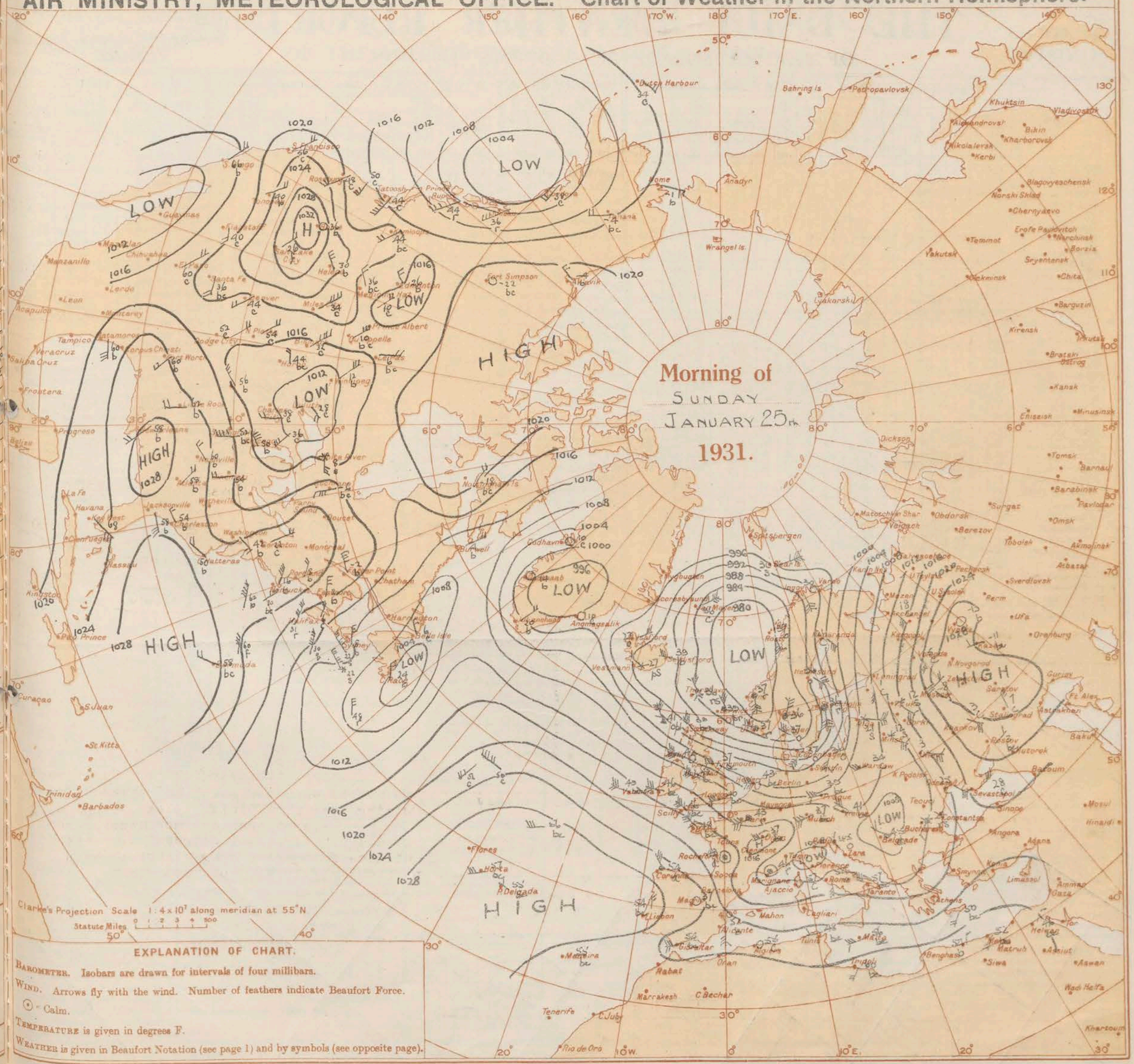
Bright periods.

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.



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, 25th January 1931.

No. 25,266

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

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 0-8 (8)	Cloud Form Low (9)	Cloud Form Med. (10)	Cloud Form High (11)	Cloud Amount Low 0-10 (12)	Cloud Amount Total 0-10 (13)	Height of Base (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1003.8	+10	WSW	4	b	40	75	7	-	-	-	0	0	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot (S'thmtn)	8	1005.4	+8	W'S	3	bc/pr	44	75	8	5	-	-	4.6	4.6	2500
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1004.1	+14	W	4	b	36	85	7	-	4	-	0	Tr.	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	999.8	+20	W	3	bc	39	95	7	1	-	-	2.3	2.3	4000
	Cranwell	240	999.3	+18	WSW	4	b	36	85	6	-	-	-	0	0	-
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1004.7	-4	W	6	c/r	45	85	8	4	6	-	7.8	10	1500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	1007.6	-2	WSW	6	bc	46	85	7	3	-	-	4.6	4.6	4000
	Scilly (St. Mary's)	163	1008.7	+8	W'N	6	ir	48	85	7	3	-	-	9	9	2500
	Guernsey	175	1008.9	0	WSW	3	bc	48	75	7	5	-	-	4.6	4.6	2500
6	Pembroke	142	1004.1	+14	WSW	5	bcq	45	85	8	8	-	-	4.6	4.6	2500
7	Holyhead	26	1001.4	+14	W'N	6	bcq	43	85	7	5	-	-	4.6	4.6	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	995.6	+10	W'N	6	bc	40	75	7	-	7	-	0	2.3	—
	Tynemouth	67	997.6	+2.0	W	4	bc	37	85	8	2	-	-	2.3	2.3	2500
11	Inchkeith	190	999.6	+16	SW	5	b	38	85	8	5	-	-	1	1	5700
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	986.9	+16	WNW	4	pr	37	95	7	3	-	-	9	9	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	983.4	+18	WSW	4	bc	36	95	8	3	1	-	4.6	4.6	2500
16	Lerwick	54	977.6	+10	NNW	2	bc/pr	41	85	8	8	-	-	2.3	2.3	1500
17	Blacksod Point	18	1002.3	+26	WNW	6	bc/phr	40	85	7	3	-	-	4.6	4.6	800
18	Malin Head	52	996.0	+22	WNW	6	bc/pW	41	75	7	9	-	-4	4.6	4.6	2500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1007.8	+34	W	5	bc	45	95	9	5	-	-	2.3	2.3	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 25th January

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)	1005.7	+26	W	4	c	40	85	8	-	1	8	0	9+	-	1	*
	Croydon	1005.6	+10	W'S	4	bc	40	85	7	-	2	5	0	4.6	-	1	*
	S. Farnborough	1006.6	+18	W'S	4	c	39	85	8	-	7	3	0	7.8	-	1	*
	Winchester	1007.2	+20	W	3	bc	38	85	8	3	1	-	2.3	4.6	2500	1	*
	Boscombe Down	1007.5	+20	WNW	3	b	38	85	7	3	-	3	1	1	1500	1	*
	Calshot (S'thmtn)	1007.5	+24	W'N	4	bc	40	85	8	5	-	-	4.6	4.6	2500	1	2
	Dungeness	*	*	SW	4	c	*	*	6	5	-	*	7.8	7.8	2500	*	2
	Lympne	1004.5	+4	WNW	3	c	37	95	7	5	7	-	7.8	9	2500	1	*
2	Shoeburyness	1003.9	+6	WSW	4	c	40	85	7	5	2	-	7.8	9+	2500	0	*
	Felixstowe	1003.8	+8	W	4	c	39	85	8	5	-	-	7.8	7.8	2500	0	4
	Gorleston	1001.3	+14	W	3	bc	38	85	7	4	9	-	2.3	4.6	4000	0	3
	Cranwell	1001.8	+18	WSW	4	b	35	85	7	5	-	-	Tr.	Tr.	5700	1	*
3	Cardington	1004.0	+22	W'N	4	bc	37	85	8	-	1	-	0	2.3	-	1	*
	Birmingham	1005.4	+20	W	4	b	37	85	8	-	-	1	0	1	-	1	*
	Upper Heyford	1005.2	+24	W	5	bc	37	85	8	-	1	-	0	2.3	-	1	*
	Leafield	1005.3	+20	W'N	4	b	36	85	9	4	-	-	1	1	4000	1	*
4	Ross-on-Wye	1006.7	+26	W	3	b	39	75	8	2	-	-	Tr.	Tr.	4000	1	*
5	Portland Bill	1008.7	+20	W	6	bc	44	76	8	8	-	-	4.6	4.6	1500	1	4
	Plymouth	1012.4	+28	NW'W	5	bc	43	75	8	9	3	-	4.6	4.6	2500	2	3
	Falmouth	1013.6	+24	WNW	5	bc	44	75	8	3	-	-	4.6	4.6	4000	1	3
	Scilly (St. Mary's)	1013.5	+24	NW	7	bc	46	75	8	2	-	-	4.6	4.6	4000	1	5
	Guernsey	1012.2	+28	NW	4	pr	47	65	7	8	-	-	7.8	7.8	2500	1	4
6	Pembroke	1008.6	+24	WSW	5	q	44	85	8	8	-	-	4.6	4.6	2500	0	3
7	Holyhead	1005.3	+22	W'N	7	q	42	85	7	5	-	-	1	1	1500	1	4
	Chester (Sealand)	1004.4	+30	W'S	4	bc	40	75	8	8	-	-	4.6	4.6	2500	1	*
8	L'pool (Bidston)	1002.9	+16	WSW	6	q	40	85	8	3	-	-	2.3	2.3	2500	1	*
9	Harrogate	1000.4	+14	W'S	3	c	35	95	9	6	-	-	9	9	2500	1	*
10	Spurn Head	997.6	+8	W'N	6	q	38	85	7	5	2	-	1	4.6	4000	0	5
	Tynemouth	996.3	+1.6	W	4	bc	37	85	8	2	-	-	2.3	2.3	2500	0	2
11	Inchkeith	994.0	+22	WSW	5	b	37	85	8	-	8	-	0	Tr.	-	0	3
	Leuchars	993.2	+26	WSW	4	b	36	75	8	-	-	-	0	0	-	4	*
12	Renfrew	997.5	+20	WNW	4	c/pr	37	85	8	9	-	-	9	9	1500	2	*
	Eskdalemuir	996.9	+10	WNW	6	bc	34	75	7	5	-	-	2.3	2.3	2500	8	*
13A	Tiree	997.3	+24	W'N	7	bc/ph	34	65	8	3	7	3	4.6	4.6	2500	1	4
13B	Stornoway	990.2	+20	NW	4	bc	39	75	7	3	-	-	4.6	4.6	4000	2	2
15	Dalwhinnie	993.7	+18	WNW	4	bc	33	95	7	5	-	-	4.6	4.6	2500	8	*
	Aberdeen	990.4	+18	W	4	b	38	65	8	-	-	-	0	0	-	4	2
	Wick	986.7	+10	WSW	4	rr	37	95	8	9	2	-	7.8	10	1500	1	3
16	Lerwick	980.8	+26	NW	3	pr	39	85	7	9	-	-	9	9	1500	2	*
17	Blacksod Point	1008.2	+20	W	6	bc/ph	41	75	7	3	8	-	4.6	4.6	800	0	6
18	Malin Head	1000.3	+22	WNW	6	bc/ph	42	65	8	3	-	-	4.6	4.6	2500	0	4
	Aldergrove	1003.7	+22	SSW	4	bc	35	95	7	8	-	-	2.3	2.3	2500	4	*
	Donaghadee	1001.5	+24	WSW	3	bc	36	85	7	5	-	-	4.6	4.6	2500	0	2
19	Birr Castle	1008.6	+22	SW	1	b	37	95	8	-	3	-	0	1	-	1	*
20	Valentia Obsy.†	1013.2	+20	W	5	bc	46	65	8	8	-	-	4.6	4.6	2500	1	4
	Roches Point	1011.8	+20	NW	4	bc	42	75	8	3	-	-	2.3	2.3	1500	0	3

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)	Night 18h-7h mm. (35)	Sunshine 24h Hrs. (36)
1	London (Kew)	47	38	33	-	-	6.7
	Croydon	47	39	34	-	-	5.8
	S. Farnborough	48	38	31	0.1	-	7.0
	Winchester	47	36	31	0.1	1	6.2
	Boscombe Down	45	36	32	0.4	2	*
	Calshot (S'thmtn)	47	38	31	0.1	0.5	6.8
	Dungeness	48	39	*	-	Tr.	*
	Lympne	47	35	31	-	-	6.6
2	Shoeburyness	47	37	33	-	Tr.	6.3
	Felixstowe	47	37	33	-	-	6.2
	Gorleston	46	36	33	-	-	4.5
	Cranwell	44	35	32	0.1	-	2.4
3	Cardington	47	34	31	-	-	7.4
	Birmingham	43	36	33	Tr	0.2	5.1
	Upper Heyford	45	34	29	0.4	-	*
	Leafield	44	34	30	Tr.	-	6.1
4	Ross-on-Wye	46	39	33	-	0.2	5.4
5	Portland Bill	48	42	*	1	1	*
	Plymouth	49	43	40	0.5	0.3	3.9
	Falmouth	49	43	*	1	4	6.6
	Scilly (St. Mary's)	50	43	*	0.2	4	5.2
	Guernsey	50	44	39	1	3	4.6
6	Pembroke	47	43	*	-	-	5.1
7	Holyhead	46	42	38	-	-	6.0
	Chester (Sealand)	46	40	36	Tr	-	5.5
8	L'pool (Bidston)	44	40	38	Tr	1	3.9
9	Harrogate	43	35	31	Tr	0.3	2.6
10	Spurn Head	44	37	*	Tr	-	4.3
	Tynemouth	45	36	32	0.2	-	*
11	Inchkeith	42	36	34	-	-	0.1
	Leuchars	44	32	27	Tr	-	1.0
12	Renfrew	44	34	31	4	3	1.0
	Eskdalemuir	41	32	30	5	3	0.4
13A	Tiree	45	38	34	2	0.6	2.2
13B	Stornoway	45	37	*	1	4	1.8
15	Dalwhinnie	38	31	*	2	1	0.8
	Aberdeen	42	36	31	1	-	0.2
	Wick	44	35	*	1	1	*
16	Lerwick	42	38	*	-	4	0.2
17	Blacksod Point	46	38	*	5	1	*
18	Malin Head	44	38	*	3	2	2.8
	Aldergrove	43	34	30	1	1	3.8
	Donaghadee	44	35	*	-	-	*
19	Birr Castle	44	35	30	0.5	1	5.3
20	Valentia Obsy.†	48	42	39	1	2	3.4
	Roches Point	46	39	*	0.1	-	*

LONDON OBSERVATIONS.

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

	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	bz.bccy	cybcb	bcwb	47	38	33	-	-	6.7	*	*	6
Croydon	217	bcb	cbczoq	bz.bbc	47	39	34	-	-	5.8	*	*	4
Greenwich (Royal Observatory)	148	cb	bcyb	bxcbm	47	38	28	-	Tr.	4.6	54	74	*
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	4.6	*	*	*
Westminster (St. James' Park)	27	*	*	*	48	39	30	-	-	5.2	57	81	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	5.3	*	81	*
Camden Square	110	bbc	bccb	*	47	38	33	-	—	*	*	*	*
Kensington Palace	80	bc	bbcq	*	47	39	29	-	-	*	At 18h. 61	78	*
Hampstead Observatory	450	cpbc	bm	*	44	37	30	0.1	-	6.1	*	78	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.	Kew Observatory Max.	Time.	Min.	Time.
0.6	10h 24th	0.3	2.7h 25th				

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 24th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 24th January 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	1006.3	W	6	bc	45	1009.9	SW	3	pr	43	48	43	1	0.3
Brussels	999.5	WSW	5	b	45	1005.0	WSW	4	c	37	46	37	2	-
Berlin	994.4	WSW	3	bc	39	998.7	WSW	4	c	41	48	37	3	0.5
Zurich	1010.6	SW	4	bc/r	41	1016.6	SW	1	c	39	46	36	12	2
Rome	1017.1	S	4	c	54	1012.0	S	4	c	54	54	*	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 „	6¼ „
7 Good „	12½ „
8 Very good „	31 „
9 Excellent „	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Monday 26th January, 1931.

No. 25267

OBSERVATIONS at 13h. G.M.T. 25th January

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)...	1010.8	+12	W'N	5	c	45	65	6	7	-	-	7-8	7-8	2500
	Croydon ...	1010.7	+14	WNW	5	z	45	55	6	7	-	-	7-8	7-8	2500
	S. Farnborough	1010.5	+6	W	5	bc	46	65	8	1	-	-	4-6	4-6	2500
	Winchester ...	1011.7	+10	WNW	6	bc	45	65	8	1	-	-	4-6	4-6	2500
	Boscombe Down	1012.7	+18	WNW	5	bdpo	41	75	7	3	-	-	4-6	4-6	2500
	Calshot, S'thmtn	1012.0	+14	W'N	5	bc	48	65	6	7	-	-	4-6	4-6	2500
	Dungeness ...	*	*	W	7	bc	*	*	7	1	-	*	2.3	2.3	4000
	Lympne ...	1009.3	+10	WNW	5	bc	45	65	7	1	-	-	2.3	2.3	2500
2	Shoeburyness	1008.7	+10	W'N	5	b	45	65	8	1	-	-	1	1	1500
	Felixstowe ...	1008.1	+14	NWW	5	bc	45	55	9	1	-	-	2.3	2.3	2500
	Gorleston ...	1004.6	+8	NW'W	5	b	44	75	7	1	-	-	1	1	4000
	Cranwell ...	1006.0	+14	W'N	6	b	43	65	7	2	-	-	1	1	2500
3	Cardington ...	1008.6	+18	W'N	5	bc	45	55	8	8	-	-	2.3	2.3	4000
	Birmingham ...	1009.0	+12	W	6	bc	43	65	8	1	3	-	1	2.3	4000
	Upper Heyford	1010.4	+10	W'S	5	q	44	65	8	8	-	-	4-6	4-6	2500
	Leafield ...	1010.1	+20	W'N	6	bc	43	65	9	1	6	-	4-6	4-6	4000
4	Ross-on-Wye ...	1011.3	+16	W'N	5	q	45	65	8	8	-	3	2.3	4-6	4000
5	Portland Bill..	1013.0	+8	W'N	7	bc/pr	46	75	8	8	4	-	2.3	4-6	2500
	Plymouth ...	1016.0	+8	WNW	5	bc	48	65	8	8	-	-	2.3	2.3	2500
	Falmouth ...	1017.8	+12	W	5	bc	48	75	8	2	3	-	4-6	4-6	4000
	Scilly (St. Mary's)	1018.6	+14	NWW	7	c	48	75	8	1	-	-	7-8	7-8	4000
	Guernsey ...	1017.1	+14	W	5	q	49	65	8	7	-	-	4-6	4-6	2500
6	Pembroke ...	1013.1	+6	WSW	5	q	46	85	8	8	7	9	2.3	4-6	2500
7	Holyhead ...	1008.9	+10	W'N	8	q	45	75	7	4	8	8	2.3	7-8	1500
	Chester (Sealand)	1008.7	+16	W	5	c	44	65	8	9	3	1	4-6	9	2500
8	L'pool (Bidston)	1007.8	+16	W'S	6	q	42	75	8	9	-	9	7-8	9	2500
9	Harrogate ...	1004.0	+10	SW	6	q	42	75	7	5	-	-	7-8	7-8	2500
10	Spurn Head ...	1002.4	+8	NWW	7	q	43	65	7	2	3	8	4-6	7-8	4000
	Tynemouth ...	1000.3	+16	W	4	bc	41	75	7	2	-	-	4-6	4-6	2500
11	Inchkeith ...	998.6	+14	WSW	5	bc	39	75	8	1	7	-	1	4-6	4000
	Leuchars ...	998.6	+22	WSW	5	c	40	75	9	7	3	1	2.3	7-8	4000
12	Renfrew ...	1002.5	+26	W	4	bc/pr	41	75	8	3	9	1	2.3	4-6	1500
	Eskdalemuir ...	1002.6	+14	WNW	4	bc/pso	35	85	8	2	4	-	4-6	4-6	2500
13A	Tiree ...	1001.9	+14	WNW	4	bc	40	75	9	8	-	4	2.3	4-6	2500
13B	Stornoway ...	996.4	+18	WNW	4	c	41	75	7	9	7	-	4-6	7-8	4000
15	Dalwhinnie ...	999.0	+20	WNW	3	bc	35	75	8	5	7	-	2.3	4-6	4000
	Aberdeen ...	995.7	+26	WNW	4	c	40	65	8	8	7	3	1	7-8	2500
	Wick ...	992.4	+20	WNW	3	c	37	95	8	9	2	-	4-6	7-8	1500
16	Lerwick ...	986.2	+26	WNW	3	pr	39	85	8	9	-	-	7-8	7-8	1500
17	Blacksod Point	1010.4	+12	W	6	c	42	85	6	3	-	-	10	10	*
18	Malin Head ...	1003.8	+6	W	6	c/prs	42	65	8	9	8	9	4-6	7-8	1500
	# Aldergrove	1005.5	+14	W	3	bc	42	75	7	5	3	-	4-6	4-6	2500
	Donaghadee ...	1006.9	+14	SW	5	phr	38	95	8	9	-	-	9	9	2500
19	Birr Castle ...	1011.7	+10	W	3	c	42	85	8	8	-	-	7-8	7-8	2500
20	Valentia Obsy.	1016.6	+12	WSW	5	phr	45	85	8	6	-	-	7-8	7-8	1500
	Roches Point...	1016.2	+10	N	4	bc	47	65	8	3	-	-	2.3	2.3	1500

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

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)	1012.5	+10	W'N	4	b	43	65	7	7	-	8	Tr	1	2500	1	*
Croydon	1012.5	+12	WSW	4	z	41	65	6	-	3	-	0	1	-	1	*
S. Farnborough	1012.9	+14	W	3	b	41	75	8	-	3	-	0	1	-	1	*
Winchester	1013.8	+6	W'N	5	bc	42	75	8	1	-	-	2.3	2.3	4000	1	*
Boscombe Down	1014.6	+14	WNW	4	bc	41	75	7	3	-	-	4-6	4-6	2500	1	
Calshot, S'thmtn	1014.6	+16	W	4	b	42	65	8	3	-	-	1	1	2500	0	1
Dungeness	*	*	W	5	bc	*	*	7	1	-	*	2.3	2.3	4000	*	3
Lympne	1012.4	+20	W	4	bc	40	65	7	7	-	-	2.3	2.3	4000	1	*
Shoeburyness	1011.5	+14	W	3	b	41	75	8	4	-	-	1	1	4000	0	*
Felixstowe	1010.8	+14	W	3	bc	42	65	9	5	-	1	2.3	4-6	2500	0	4
Gorleston	1008.3	+10	W	3	bc	41	65	7	-	4	-	0	4-6	-	0	6
Cranwell	1009.0	+16	WSW	4	c	38	85	6	8	-	-	9	9	1500	1	
Cardington	1010.7	+12	W'N	4	bc	40	75	8	5	3	-	1	2.3	4000	1	*
Birmingham	1011.2	+6	W	4	bc	40	75	8	6	-	1	2.3	4-6	2500	1	*
Upper Heyford	1012.5	+14	W	4	bc	39	75	8	-	3	-	0	4-6	-	1	*
Leafield	1011.7	+10	W'S	5	bc	39	65	9	4	-	3	Tr	2.3	4000	1	*
Ross-on-Wye	1012.4	+10	W'S	3	c	42	75	8	3	7	3	4-6	9	4000	1	
Portland Bill	1016.3	+16	W	6	bc	47	65	8	4	4	-	2.3	4-6	2500	1	4
Plymouth	1018.1	+12	W	4	bc	45	85	8	3	7	-	2.3	2.3	2500	2	3
Falmouth	1019.3	+6	WSW	4	bc	46	75	8	3	-	-	2.3	2.3	4000	1	2
Scilly (St. Mary's)	1020.1	+12	WNW	6	bc/p	47	85	7	3	4	-	2.3	2.3	4000	1	4
Guernsey	1019.2	+18	W	3	bc	48	75	7	5	-	-	4-6	4-6	2500	0	3
Pembroke	1013.1	0	WSW	5	bc/p	44	95	8	9	4	-	4-6	4-6	2500	1	3
Holyhead	1009.7	+2	W	6	q	44	65	7	5	2	-	2.3	9+	4000	1	3
Chester (Sealand)	1010.0	+10	W'S	4	c	43	65	8	5	-	-	9+	9+	2500	1	*
L'pool (Bidston)	1010.1	+6	W'S	5	phr	41	75	8	6	-	-	10	10	2500	0	
Harrogate	1006.6	+10	SW	3	b	37	85	7	6	-	-	1	1	2500	1	*
Spurn Head	1005.4	+8	W'N	6	c	40	85	7	5	1	1	2.3	7-8	4000	0	5
Tynemouth	1004.0	+20	W	3	bc	37	85	7	2	-	-	4-6	4-6	2500	0	2
Inchkeith	1002.3	+18	WSW	4	c	37	85	7	5	1	-	2.3	9	1500	0	2
Leuchars	1001.5	+22	WSW	4	bc	35	85	8	5	7	5	1	4-6	4000	4	*
Renfrew	1004.6	+10	WSW	3	c	37	85	7	8	3	-	4-6	7-8	2500	2	*
Eskdalemuir	1005.1	+14	W	3	bc	33	85	8	5	1	3	2.3	4-6	2500	6	*
Tiree	1003.2	+14	W'S	2	bc	39	75	8	8	-	8	2.3	4-6	2500	1	3
Stornoway	999.8	+22	WNW	3	bc	37	85	7	4	-	-	2.3	2.3	4000	1	2
Dalwhinnie	1003.0	+22	NW	3	bc	32	95	7	5	-	-	4-6	4-6	1500	8	*
Aberdeen	999.7	+30	WNW	4	c	39	65	8	5	-	-	7-8	7-8	2500	1	2
Wick	996.2	+20	WNW	4	c	36	95	8	9	2	-	7-8	9	1500	1	3
Lerwick	990.9	+28	W'N	3	bc	40	75	8	8	6	1	4-6	4-6	1500	1	*
Blacksod Point	1011.1	+16	WNW	7	c	43	65	7	3	-	-	9	9	*	1	5
Malin Head	1004.5	+8	W	6	c/phr	41	75	7	9	1	-	4-6	9+	1500	1	4
Aldergrove	1007.5	+6	SW	4	c	37	85	8	8	-	-	7-8	7-9	2500	1	*
Donaghadee	1006.4	+4	W	2	c	38	85	7	5	-	-	7-8	7-8	2500	1	1
Birr Castle	1012.1	+2	SW	3	phr	37	95	7	3	-	-	9+	9+	2500	1	*
Valentia Obsy.	1017.4	+10	W	6	bc/pr	47	65	8	8	-	-	4-6	4-6	2500	1	4
Roches Point	1016.6	-4	NW	3	c	45	75	8	5	-	-	7-8	7-8	1500	0	3

PAST 24 HOURS. — WEATHER.

Stations	7h.–13h. 25th (37)	13h.–18h. 25th (38)	18h. 25th to 1h. 26th (39)	1h.–7h. 26th (40)
London (Kew)	cbbczo	bczob	bcrr	bcmo
Croydon	bbczo	cbcybmo	bbccprzo	cbccmo
S. Farnborough	cbbc	bcb	b,cP	cb
Winchester	bcbbc	bc	bccroR	oprcbc
Boscombe Down	bccpoq	bcbbc	bccrrcRc	c
Calshot, S'thmtn	bcqbq	bcqvbq	bbcprrbq	bbcbq
Dungeness	bc	bc		bc
Lympne	cb	bcb	bcoroRo	orricb
Shoeburyness	cbcb	bcqb	bbc	bccprbq
Felixstowe	cbcvqbcvq	bcqvybcv	bcvc	crrbc
Gorleston	bcbq	bbcq	bc	bcprox
Cranwell	bmo	b,cqprmo	cuqrbcm	bcbrm
Cardington	bby	byb	bbccr	bbccrcw
Birmingham	bc	bc	bccpro	cpro
Upper Heyford	bcbbcq	bcqbc	bcpq	bccpq
Leafield	bbc	bcbq	bccRc	bcb
Ross-on-Wye	bbcq	pocbcc	c2oirq	cpq b
Portland Bill	bc	bc	bcPRRRbc	bcc
Plymouth	bccpro	bccpr	bqctlHpr	bbc
Falmouth	bcPq	bcPq	bccPq	cPbcq
Scilly (St. Mary's)	bccqp	cbcqp	bcqp	bcqp
Guernsey	cpbcq	bccpr	cphrq	ocbcq
Pembroke	bcq	bcpq	crlbcq	bcq
Holyhead	bqbbc	bccR	cporbcq	bcc
Chester (Sealand)	probcq	phoroc	prpltq	prbcq
L'pool (Bidston)	bccq	cprh	ocrhq	qbcr
Harrogate	cbcpsh	cbpsho	cbp	b
Spurn Head	bccproq	cproc	cbrspr	bc
Tynemouth	bcq	bcq	bcq	bc
Inchkeith	bbc	bcc	cbcl	bc
Leuchars	bxvcv	cbcvybcx	bcbx	bx
Renfrew	bccpq	poqbc	pobcbx	bbcx
Eskdalemuir	bcps pso	bccpsoc	cbc	bcc
Tiree	bcphr	bccbc	pobc	bcphr
Stornoway	cprshq	cbc	bcph	bcph
Dalwhinnie	psobc	psbcc	pscb	bc
Aberdeen	bc	c	cb	b
Wick	crrirsc	cirs	cphcPHbc	bc
Lerwick	cpr	cprprsbc	bcprs,ph	bcph
Blacksod Point	prq	prq	phq	prqc
Malin Head	bccprs	cPHcphr	cphsbcphr	bcphr
Aldergrove	bccqprh	cqprhbcc	cprs	bcprs
Donaghadee	bc	crrc	cprc	cir
Birr Castle	bbccpr	cprph	cprc	cbx
Valentia Obsy.	bccphr	cphcpbc	bccprq	bcc
Roches Point	bc	bcpoc	cpq,bc	bcq,pbc

#ALDERGROVE + DONAGHADEE transposed

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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

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

<, less than (for cloud height).

⊕, solar halo. ⊕, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

COLUMN 29.—STATE OF GROUND.

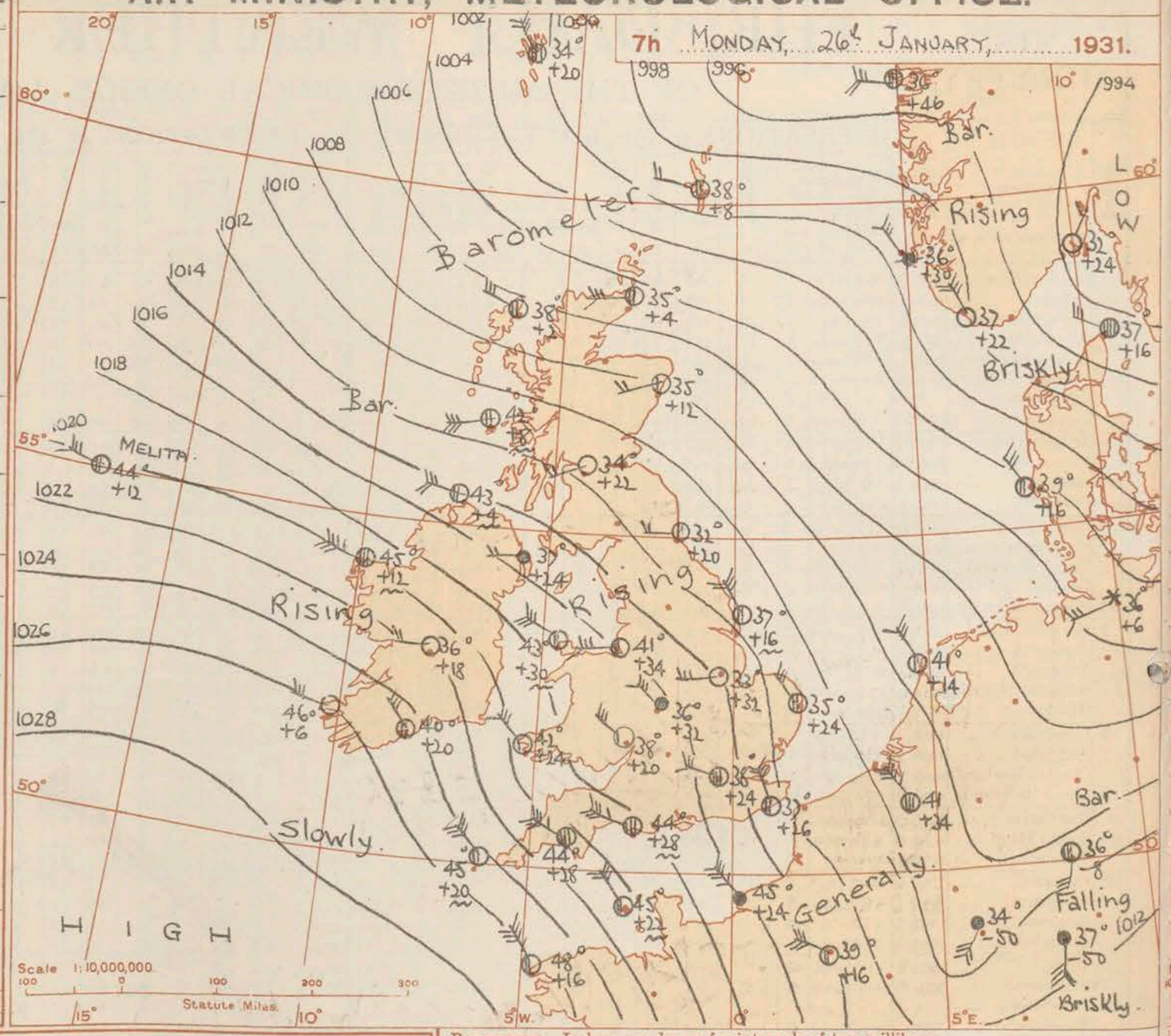
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 25th JANUARY 1931.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 24th to 9h. 25th	Temperature. Max. 9h.—17h. 25th	Rainfall. Night. 17h. 24th to 9h. 25th	Rainfall. Day. 9h.—17h. 25th	Sunshine. Sunrise to Sunset 25th
1	Tunbridge W.	b	bbc	37	45	-	-	6.6
	Bournemouth	b	b	38	49	1	-	7.6
	Ventnor ...	orb	b	39	48	0.5	-	7.8
	Southsea ...	b	b	38	47	0.4	-	7.4
	Bognor Regis	b	bbc	38	47	1	-	7.8
	Littlehampton	brbc	bc	36	49	1	-	7.6
	Worthing ...	b	b	39	48	1	-	7.0
	Brighton ...	b	bbcb	40	48	1	-	6.6
	Eastbourne†	b	b	40	47	-	-	6.7
	Hastings† ...	b	b	37	46	0.1	-	6.8
	Folkestone ...	wbcb	bbc	36	47	-	-	5.6
	Dover... ...	bcb	b	39	47	-	-	6.2
	Deal	bc	bcb	39	45	-	-	5.8
	Ramsgate ...	bcb	b	42	45	-	-	4.6
	Margate ...	bc	bc	38	44	-	-	5.1
2	Southend ...	b	bc	36	46	-	-	5.9
	Maldon ...	b	b	37	46	-	-	6.3
	Clacton-on-Sea	bc	bc	38	45	-	-	6.3
	Dovercourt ...	bc	bc	37	45	-	-	6.8
	Lowestoft ...	b	b	35	42	-	-	6.4
	Skegness ...	bm	bm	35	43	Trace	-	6.0
	Mablethorpe	b	bc	36	45	-	-	6.3
	Cleethorpes ...	bc	bbc	36	44	-	-	4.7
3	Leamington S.	c	bc	36	45	-	-	5.8
4	Cheltenham†	b	bbc	35	40	-	-	6.6
5	Bath	b	bbcp	41	47	0.5	Trace	6.8
	Weymouth ...	b	bbp	41	49	0.1	Trace	7.6
	Jersey ...	bc(p)	bcc(p)	45	50	3	2	1.6
	Torquay ...	bcRp	bcpbccpp	41	50	10	0.4	7.0
	Penzance ...	b	b	44	51	3	-	5.5
	St. Ives ...	c	c	43	48	2	-	3.5
	Bude	pcbc	bc	42	48	0.4	-	5.6
	Ilfracombe ...	b	bcphc	44	47	-	0.1	4.7
6	Aberystwyth	bc	bcc	42	44	-	-	4.2
7	Llandudno ...	cbc	c	41	44	-	-	1.8
	Colwyn Bay...	bob	bcco	40	43	-	-	1.4
	Rhyl	bc	bcc	40	45	-	-	2.8
8	Wallasey ...	cbcp	pbcc	40	44	0.5	Trace	1.7
	Southport‖ ...	bbc	bc	41	43	-	-	2.5
	Blackpool ...	cbc	bcc	41	44	-	-	2.9
	Morecambe ...	bbc	b	40	44	-	-	3.7
9	Ilkley... ...	b	bscc	37	42	7	Trace	3.1
10	Berwick-on-T.	bc	cbc	36	42	-	-	3.4
11	Dunbar ...	b	bc	35	41	-	-	4.7
12	Douglas ...	cq	bcqcb	38	43	-	-	5.2

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 26th Jan. 1931
1. S.E. England 2. E. England... 3. E. Midlands 4. W. Midlands 5. S.W. England 6. South Wales	Wind northwesterly, moderate or fresh, strong at times locally; bright intervals and occasional squally showers, perhaps with hail locally; moderate or rather low day temperature, perhaps local night frost.
7. North Wales 8. N.W. England 9. N. Midlands 10. N.E. England	Wind west or northwest, fresh, strong at times; bright intervals and squally showers of rain, hail or sleet; rather cold, local night frost.
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.	Wind northwesterly, fresh, squally, strong locally; bright intervals and occasional showers of hail or snow; cold, night frost.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Wind northwest or west, fresh or strong, moderating; bright periods and occasional showers; perhaps deteriorating; rather cold, local night frost inland.

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

GENERAL INFERENCE.

A low-pressure area over Scandinavia is filling up and pressure is high on the Eastern Atlantic. Small secondary disturbances are likely to travel across the British Isles in the general northwesterly air current. Weather will be rather cold with bright intervals and showers in most districts, and probably occasional hail or snow in the North.

FURTHER OUTLOOK.

Rather cold in the North and East with bright intervals and occasional showers, but perhaps milder and less settled in the extreme West.

Forecasts issued at 1000 G.M.T.

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

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

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, 26th January, 1931.

No. 25, 26 7.

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

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	1010.6	-18	W	4	c/r	41	85	7	5	-	-	10	10	1500
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1012.1	-28	WNW	5	b	39	95	8	-	-	-	0	0	-
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1009.1	-32	W	4	r.r.	39	95	6	6	-	-	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	1007.5	-8	W	3	bc	37	85	7	-	1	-	0	4.6	-
	Cranwell	240	1007.8	-8	W	4	bc/r	35	95	6	5	-	-	2.3	2.3	2500
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1013.5	-4	W	6	bc	45	75	8	4	4	-	2.3	4.6	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	1019.4	+10	W'N	6	PR	44	75	7	3	2	-	7.8	7.8	4000
	Scilly (St. Mary's)	163	1020.8	+16	NW	7	bc/pr	46	75	8	2	-	-	4.6	4.6	4000
	Guernsey	175	1017.2	-4	WNW	5	o/pr	47	75	6	5	-	-	10	10	1500
6	Pembroke	142	1014.3	+16	WNW	5	bcq	44	85	8	3	7	-	2.3	4.6	1500
7	Holyhead	26	1011.6	+20	WNW	8	bcq	41	85	7	5	-	-	4.6	4.6	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1006.1	0	NW'W	4	bc	37	95	7	3	2	-	2.3	2.3	4000
	Tynemouth	67	1006.0	+8	W	2	bc	34	95	7	2	-	-	2.3	2.3	2500
11	Inchkeith	190	1006.5	+10	W	3	bcl	35	95	7	5	-	-	4.6	4.6	1500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1006.7	+24	WNW	3	bc	35	95	7	3	-	-	2.3	2.3	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1002.1	+22	WNW	3	bc	35	85	8	3	6	-	2.3	4.6	1500
16	Lerwick	54	999.4	+26	W'N	3	bc/pr	38	65	8	8	-	-	4.6	4.6	1500
17	Blacksod Point	18	1017.5	+34	WNW	8	bc	43	65	8	3	-	-	4.6	4.6	x
18	Malin Head	52	1009.7	+34	NW	4	bc/pr	42	75	7	3	-	-	4.6	4.6	2500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1022.8	+34	W	6	bc	45	95	9	4	-	-	2.3	2.3	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1016.3	+32	WNW	3	bc	38	85	6	5	7	-	4.6	4.6	1500	1	*
Croydon	1015.6	+24	WNW	4	z	36	75	6	5	-	-	9	9	2500	1	*
S. Farnborough	1016.0	+24	NW	3	b	37	85	8	5	-	-	1	1	2500	1	*
Winchester	1017.8	+30	NW	4	bc	35	85	8	4	-	-	2.3	2.3	4000	1	*
Boscombe Down	1017.9	+22	WNW	3	c	37	86	7	5	-	-	9	9	800	1	*
Calshot, (S'thmtn)	1017.5	+23	NW'W	4	b	39	75	8	5	-	-	1	1	2500	1	2
Dungeness	*	*	WNW	5	bc	*	*	7	3	-	*	4.6	4.6	5700	*	2
Lympne	1012.7	+26	NW'W	5	bc/r	37	85	7	5	4	-	1	2.3	2500	1	*
Shoeburyness	1013.9	+30	NW	6	bc	38	85	8	4	-	-	2.3	2.3	4000	1	*
Felixstowe	1013.5	+30	WNW	3	bc	37	95	8	5	-	-	4.6	4.6	2500	1	2
Gorleston	1011.5	+24	NW	3	bc	35	95	7	6	2	-	2.3	4.6	2500	1	2
Cranwell	1014.3	+32	W'N	3	b	33	95	6	-	-	-	0	0	-	1	*
Cardington	1015.3	+22	NW	4	bc	38	85	7	5	-	-	4.6	4.6	1500	1	*
Birmingham	1016.6	+32	NW	4	bc/pr	36	95	8	6	-	-	4.6	4.6	1500	1	*
Upper Heyford	1016.6	+40	NNW	6	c/pr	37	85	8	5	-	-	7.8	7.8	1500	1	*
Leafield	1016.0	+30	NW'W	5	b	35	85	9	4	-	3	1	1	2500	1	*
Ross-on-Wye	1017.8	+20	NW	3	b	38	85	8	7	-	-	Tr.	Tr.	4000	1	*
Portland Bill	1018.3	+28	NW'W	7	c	44	65	8	8	4	-	4.6	7.8	2500	1	4
Plymouth	1022.7	+14	NW	3	c	43	65	7	9	-	-	9	9	2500	1	2
Falmouth	1024.4	+20	NW'W	6	bc	44	65	7	3	-	-	4.6	4.6	4000	1	3
Scilly (St. Mary's)	1025.7	+20	NW'N	6	bc	45	65	8	2	-	-	2.3	2.3	4000	1	4
Guernsey	1021.2	+22	NW	5	q	45	65	8	8	-	-	4.6	4.6	2500	0	5
Pembroke	1019.9	+24	NW	4	q	42	95	8	1	-	-	Tr.	Tr.	2500	0	3
Holyhead	1017.6	+30	NW'W	6	c	43	85	8	5	-	-	7.8	7.8	1500	1	4
Chester (Sealand)	1016.3	+34	WNW	4	bc/pr	41	85	8	8	-	-	4.6	4.6	2500	1	*
L'pool (Bidston)	1016.0	+24	W'N	4	bc	40	85	9	6	-	-	4.6	4.6	2600	0	*
Harrogate	1013.7	+26	SW	2	b	33	85	8	-	-	-	0	0	-	14	*
Spurn Head	1011.7	+16	NNW	5	bc	37	85	7	-	2	-	0	2.3	-	1	4
Tynemouth	1011.3	+20	W	2	bc	32	95	7	5	-	-	2.3	2.3	1500	4	1
Inchkeith	1011.0	+12	WSW	3	bc	36	95	7	5	8	-	2.3	4.6	2500	0	1
Leuchars	1010.7	+14	WSW	3	b	31	85	8	-	-	-	0	0	-	4	*
Renfrew	1013.6	+22	SE	2	b	34	95	8	7	-	-	Tr.	Tr.	2500	4	*
Eskdalemuir	1013.2	+14	W'N	3	c	32	95	8	5	-	-	7.8	7.8	800	6	*
Tiree	1011.8	+8	WSW	6	bc	42	75	8	8	7	-	2.3	2.3	2500	1	4
Stornoway	1006.4	+2	WNW	3	bc	38	85	7	3	-	-	2.3	2.3	4000	2	2
Dalwhinnie	1009.9	+8	WNW	4	bc	31	95	8	5	4	-	2.3	4.6	4000	8	*
Aberdeen	1008.4	+12	WSW	2	b	36	75	8	-	3	-	0	1	-	4	1
Wick	1004.9	+4	W	4	bc	35	95	8	9	1	-	2.3	4.6	1500	6	3
Lerwick	999.3	+8	W'N	2	bc	38	75	8	8	-	-	2.3	2.3	1500	1	*
Blacksod Point	1021.7	+12	WNW	7	c	45	65	7	3	-	-	7.8	7.8	2150	0	5
Malin Head	1014.3	+6	WNW	5	bc/p	43	65	8	3	-	-	2.3	2.3	2500	0	4
Aldergrove	1017.7	+14	WSW	3	pr	36	85	8	9	-	-	7.8	7.8	1500	1	*
Donaghadee	1015.8	+24	W	2	ir.	37	85	7	6	-	-	7.8	7.8	800	1	1
Birr Castle	1022.2	+18	W	2	b	36	85	8	-	-	-	0	0	-	1	*
Valentia Obsy.†	1026.0	+6	WNW	3	c	46	65	8	5	1	-	2.3	7.8	2500	1	3
Roches Point	1024.6	+20	NW	3	bc	40	95	8	3	-	-	2.3	2.3	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 25th Hrs. (36)
London (Kew)	46	37	32	-	1	6.4
Croydon	46	37	32	-	1	5.3
S. Farnborough	47	37	31	-	1	7.6
Winchester	46	35	30	-	9	8.0
Boscombe Down	44	36	34	0.2	9	-
Calshot, (S'thmtn)	48	38	33	-	2	7.8
Dungeness	43	34	*	-	-	*
Lympne	45	35	33	-	2	6.5
Shoeburyness	46	36	33	-	0.2	6.4
Felixstowe	45	36	32	-	2	6.6
Gorleston	45	34	31	-	0.2	6.5
Cranwell	43	33	30	0.2	2	6.0
Cardington	45	36	34	-	1	6.9
Birmingham	43	35	31	-	1	6.1
Upper Heyford	45	36	32	-	0.3	-
Leafield	44	34	31	-	2	7.5
Ross-on-Wye	46	37	33	0.1	4	6.1
Portland Bill	48	42	*	-	2	*
Plymouth	49	43	41	0.2	3	5.7
Falmouth	50	42	*	1	1	6.3
Scilly (St. Mary's)	50	44	*	1	1	5.7
Guernsey	50	44	37	0.2	3	6.3
Pembroke	48	41	*	1	1	5.3
Holyhead	45	41	38	-	Tr.	4.4
Chester (Sealand)	44	38	34	Tr	2	3.1
L'pool (Bidston)	42	37	34	Tr	1	1.8
Harrogate	43	33	28	0.2	1	5.4
Spurn Head	43	36	*	Tr	1	2.1
Tynemouth	42	32	27	-	-	*
Inchkeith	41	34	32	-	-	4.7
Leuchars	42	30	23	-	-	4.4
Renfrew	42	28	18	0.3	Tr.	1.5
Eskdalemuir	37	30	23	1	-	1.9
Tiree	42	31	24	1	1	1.4
Stornoway	43	34	*	1	4	1.1
Dalwhinnie	38	22	*	1	Tr.	1.8
Aberdeen	40	34	27	-	-	2.6
Wick	38	33	*	8	1	*
Lerwick	40	36	*	6	2	0.0
Blacksod Point	45	38	*	4	1	*
Malin Head	42	38	*	3	2	0.8
Aldergrove	40	32	30	0.3	4	0.9
Donaghadee	42	35	*	2	1	*
Birr Castle	44	35	29	2	1	2.1
Valentia Obsy.†	49	43	40	2	0.5	3.9
Roches Point	48	40	*	0.1	2	*

LONDON OBSERVATIONS.

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

	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	cbbcz	bczb	bcrrm	46	37	32	-	1	6.4	*	*	6
Croydon	217	bbcz	cbcybm	bbcrc	46	37	32	-	1	5.3	*	*	5
Greenwich (Royal Observatory)	149	bmbz	bczb	bcrbm	45	37	29	-	2	4.4	55	78	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	4.3	*	*	*
Westminster (St. James' Park)	27	*	*	*	46	39	31	2.4		5.2	54	78	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	5.0	*	*	*
Camden Square	110	b	bcc	*	44	37	32	-	2	*	At 18h.	81	*
Kensington Palace	80	bc	bc	*	46	38	30	-	2	*	56	76	*
Hampstead Observatory	450	bc	bc	*	45	34	26	-	2	6.5	*	75	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
0.8	10h 25th	<0.3	1-6h 26th

Kew Observatory Max.	Time.	Min.	Time.
0.3	7h 26th	<0.1	0-2h 26th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 25th January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 26th January 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	3	bc	43	1014.7	NW	4	bc	41	50	39	2	2
Brussels	1011.8	W'N	3	c/pr	39	1009.8	S	1	ic.	32	45	32	0.1	?
Berlin	1003.3	WSW	3	c/pr	37	1005.2	W	2	c	37	43	34	0.5	1
Zürich						1015.8	WSW	4	z	37		32		2
Rome	1008.1	SW	3	c	54	1011.1	N	4	b	45	57	45	0.5	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

COLUMNS 4, 13.
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.

0	Dense fog	55 yards.
1	Thick fog	220 ,,
2	Fog	550 ,,
3	Moderate fog	1,100 ,,
4	Mist or haze	1½ miles.
5	Poor visibility	2½ ,,
6	Moderate ,,	6½ ,,
7	Good ,,	12½ ,,
8	Very good ,,	31 ,,
9	Excellent ,,	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Tuesday 27th January 1931.

No. 25268

OBSERVATIONS at 13h. G.M.T. 26th January

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)	1020.8	+16	WNW	4	bc	45	75	6	5	-	-	4-6	4-6	2500
	Croydon	1020.2	+14	WNW	4	ʒo	44	65	6	8	-	-	7-8	7-8	2500
	S. Farnborough	1021.5	+20	WNW	4	c	44	65	8	7	-	-	9	9	4000
	Winchester	1021.9	+16	WNW	5	c	45	65	8	8	-	-	7-8	7-8	2500
	Boscombe Down	1022.3	+18	WNW	5	bc	44	75	7	5	-	-	4-6	4-6	2500
	Calshot, S'thmtn	1021.9	+14	NW'W	5	bc	46	65	8	7	-	-	4-6	4-6	2500
	Dungeness	*	*	NW	5	ʒo	*	*	6	5	-	-	2-3	2-3	4000
	Lympne	1018.3	+20	NW'N	5	ʒo	42	65	6	1	-	-	1	1	1500
2	Shoeburyness	1019.0	+10	NW	6	bc	44	75	8	-	8	1	0	2-3	-
	Felixstowe	1017.7	+16	NW	3	b	43	65	8	1	-	-	1	1	2500
	Gorleston	1016.4	+16	NW'W	3	bc	42	75	7	1	-	1	1	2-3	4000
	Cranwell	1017.4	+4	WNW	4	b	42	75	6	5	-	-	Tr.	Tr.	7200
3	Cardington	1019.2	+4	NW'W	4	c	43	75	7	8	3	-	4-6	7-8	2500
	Birmingham	1019.5	+6	NW	5	bc	43	65	8	6	-	-	4-6	4-6	2500
	Upper Heyford	1020.9	+18	WNW	5	c	44	65	8	5	-	-	7-8	7-8	2500
	Leafield	1020.4	+16	WNW	5	b	43	65	9	7	-	6	1	1	4000
4	Ross-on-Wye	1021.4	+14	WNW	4	b	44	75	8	1	-	1	1	1	4000
5	Portland Bill	1023.7	+14	NW'W	6	bc	46	65	8	8	4	-	4-6	4-6	2500
	Plymouth	1025.8	+8	NW	4	c	46	55	8	8	-	6	4-6	7-8	4000
	Falmouth	1027.7	+4	WNW	4	bc	47	55	8	2	3	9	2-3	4-6	4000
	Scilly (St. Mary's)	1028.0	-2	NW'W	4	c	47	75	8	7	7	8	4-6	9+	4000
	Guernsey	1025.5	+12	NW	4	bc	47	65	8	7	-	-	4-6	7-8	2500
6	Pembroke	1024.6	+16	WNW	4	q	46	85	7	1	7	6	1	7-8	2500
7	Holyhead	1020.6	+14	WNW	6	q	45	75	8	5	-	9	1	1	2500
	Chester (Sealand)	1020.0	+14	W'N	5	c/ph(r)	43	75	8	3	-	3	7-8	9	2500
8	L'pool (Bidston)	1018.8	+4	W	6	bc	42	75	8	3	-	-	4-6	4-6	4000
9	Harrogate	1016.8	+14	SW	2	c	40	75	7	9	1	-	4-6	7-8	2500
10	Spurn Head	1014.8	+6	NW'W	6	bc	41	75	6	5	-	1	2-3	2-3	1500
	Tynemouth	1013.4	0	W	3	bc	43	75	7	7	-	-	4-6	4-6	4000
11	Inchkeith	1011.7	+4	WSW	5	bc	39	85	7	5	8	-	4-6	4-6	2500
	Leuchars	1011.8	0	WNW	4	ro ro	37	85	6	6	7	-	9+	10	1500
12	Renfrew	1015.3	+6	WNW	4	c/pr	39	85	8	3	-	-	7-8	7-8	2500
	Eskdalemuir	1014.9	+8	WNW	4	bc/p	39	75	8	3	4	3	4-6	4-6	2500
13A	Tiree	1016.0	+20	WNW	7	bc	44	65	8	8	-	8	2-3	2-3	2500
13B	Stornoway	1012.1	+36	NW	4	c/ph(r)	38	85	8	3	6	-	4-6	7-8	4000
15	Dalwhinnie	1012.4	+8	NW	4	bc	33	85	8	5	-	-	4-6	4-6	4000
	Aberdeen	1010.5	+8	WNW	4	c	39	65	7	6	4	-	9	9	2500
	Wick	1007.4	+12	WNW	3	prs	34	95	8	9	7	-	4-6	7-8	1500
16	Lerwick	1003.8	+22	W'N	2	pr.	38	75	8	8	6	-	4-6	4-6	1500
17	Blacksod Point	1024.0	+10	W	3	c	47	65	8	5	-	-	9	9	2200
18	Malin Head	1018.9	+18	NW'W	6	bc/jp	44	75	8	8	-	-	2-3	2-3	2500
	Aldergrove	1020.1	+10	W'S	4	bc/pr	41	85	8	8	-	8	2-3	4-6	2500
	Donaghadee	1018.6	+4	W'N	3	pr.	44	75	7	3	3	-	4-6	4-6	1500
19	Birr Castle	1024.7	+4	SW	2	c	46	75	8	5	-	8	4-6	9+	4000
20	Valentia Obsy.	1026.5	-4	SW'W	1	c	48	75	8	5	2	-	7-8	10	5700
	Roches Point	1026.9	+2	W	3	c	45	75	8	5	-	-	9	9	1500

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

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)	1022.3	+14	W'N	2	bc	42	75	5	4	2	8	1	4-6	2500	1	*
	Croydon	1021.5	+6	W'N	4	ʒo	42	65	6	7	-	1	4-6	7-8	2500	0	*
	S. Farnborough	1022.0	+10	WNW	2	bc	40	75	8	-	4	-	0	4-6	-	1	*
	Winchester	1023.4	+10	WNW	4	bc	39	75	8	-	3	9	0	2-3	-	1	*
	Boscombe Down	1023.9	+10	NW	3	bc	39	75	7	-	7	1	0	4-6	-	1	*
	Calshot, S'thmtn	1023.3	+10	W'N	4	bc	41	75	7	1	4	5	1	4-6	2500	0	2
	Dungeness	*	*	WNW	2	bc	*	*	7	4	4	*	1	2-3	4000	*	2
	Lympne	1020.5	+6	W'N	3	ʒo	37	75	6	-	4	-	0	1	-	1	*
2	Shoeburyness	1020.6	+6	NNW	2	bc/pr	40	85	8	5	-	-	4-6	4-6	4000	1	*
	Felixstowe	1019.4	+8	WNW	4	bc	41	75	8	1	-	-	2-3	2-3	2500	0	2
	Gorleston	1017.2	+4	W	3	bc	39	85	6	-	6	-	0	2-3	-	0	1
	Cranwell	1019.0	+8	NW'W	3	c/pr	37	95	6	8	-	-	9+	9+	1500	1	*
3	Cardington	1020.9	+14	W'N	3	b	39	75	7	7	3	-	1	1	5700	1	*
	Birmingham	1021.6	+8	WNW	3	bc	40	75	7	-	3	9	0	2-3	-	1	*
	Upper Heyford	1022.4	+14	WNW	4	bc	39	85	8	-	1	-	2-3	2-3	-	1	*
	Leafield	1022.4	+14	W'N	4	bc	37	75	8	5	-	8	2-3	2-3	4000	1	*
4	Ross-on-Wye	1022.8	+12	W	3	bc	41	75	8	1	3	6	Tr.	4-6	4000	1	*
5	Portland Bill	1025.0	+6	W'N	5	bc	45	65	8	4	-	-	4-6	4-6	2500	1	4
	Plymouth	1027.1	+10	NW	4	bc	45	75	6	5	-	1	2-3	4-6	4000	1	2
	Falmouth	1028.7	+6	WNW	3	c	46	75	7	5	1	-	4-6	7-8	4000	0	1
	Scilly (St. Mary's)	1028.1	0	WNW	4	c	47	85	7	5	-	-	9+	9+	4000	0	2
	Guernsey	1027.0	+10	NW	3	c	46	65	7	5	-	-	7-8	7-8	2500	0	4
6	Pembroke	1025.4	+6	WNW	3	bc	47	85	7	5	7	-	2-3	4-6	2500	0	3
7	Holyhead	1022.3	+10	NW'N	6	c	45	85	8	4	-	9	4-6	7-8	2500	1	4
	Chester (Sealand)	1021.4	+12	NW	4	PH(R)	37	95	6	3	-	1	4-6	7-8	2500	6	*
8	L'pool (Bidston)	1021.5	+14	WNW	5	c/r	40	85	7	9	-	-	7-8	7-8	2500	1	*
9	Harrogate	1018.7	+6	WSW	1	b	36	85	7	-	-	-	0	0	-	1	*
10	Spurn Head	1015.5	+2	WNW	6	bc	39	85	6	5	-	-	2-3	2-3	1500	0	4
	Tynemouth	1016.2	+24	WNW	3	bc	37	75	7	5	-	-	2-3	2-3	1500	0	2
11	Inchkeith	1017.1	+30	WNW	4	b	39	85	8	-	4	-	0	1	-	0	2
	Leuchars	1016.3	+38	WNW	5	b	37	75	9	4	-	-	Tr	Tr.	2500	1	*
12	Renfrew	1019.3	+28	NW	4	b	36	85	8	2	-	-	Tr.	Tr.	2500	1	*
	Eskdalemuir	1018.8	+28	NW'N	6	b	35	75	8	-	-	-	0	0	-	6	*
13A	Tiree	1021.2	+28	WNW	5	bc	42	75	8	5	-	8	2-3	4-6	2500	0	4
13B	Stornoway	1017.7	+30	NW	2	bc	39	85	8	9	-	-	4-6	4-6	4000	2	1
15	Dalwhinnie	1018.0	+26	NNW	4	c	35	75	8	5	-	-	7-8	7-8	2500	8	
	Aberdeen	1015.3	+34	NW	3	b/rs	35	95	8	6	-	-	Tr.	Tr.	1500	4	1
	Wick	1012.0	+16	NW	3	c/ps	39	95	8	9	-	8	4-6	7-8	1500	1	3
16	Lerwick	1006.7	+22	WNW	3	RR	40	95	7	6	2	-	4-6	7-8	1500	1	*
17	Blacksod Point	1024.1	0	W	2	c	43	85	8	5	-	-	9+	9+	4150	0	2
18	Malin Head	1021.8	+16	NNW	4	c	45	65	8	4	6	-	4-6	7-8	4000	0	3
	Aldergrove	1022.8	+14	WNW	3	bc	39	85	8	5	-	1	1	2-3	2500	1	*
	Donaghadee	1021.9	+18	W	2	bc	40	85	7	3	3	-	4-6	4-6	2500	1	2
19	Birr Castle	1025.5	+10	SW	1	c	41	85	8	-	7	-	0	9	-	1	*
20	Valentia Obsy.	1025.0	-16	E'S	2	ir.	46	85	8	5	2	-	7-8	10	1500	1	2
	Roches Point	1026.8	-2	W	2	c	45	85	8	3	-	-	7-8	7-8	1500	0	3

PAST 24 HOURS.

District	Stations	Weather. 7h.–13h. 26th (37)	Weather. 13h.–18h. 26th (38)	Weather. 18h.–1h. 27th (39)	Weather. 1h.–7h. 27th (40)
1	London (Kew)	bbcʒo	bcʒo	cmorob	bmox
	Croydon	cbcʒo	cʒo	cprbmo	bx
	S. Farnborough	bc	cbc	bcbwx	bx
	Winchester	bbc	bcprbc	bcb	b bx
	Boscombe Down	cbbc	bc	bcb	bmox
	Calshot, S'thmtn	bcc	bcq bc	bw	bwx
	Dungeness	bc	bc	*	b
	Lympne	bcbmo	bcbmo	bmo	bmox
2	Shoeburyness	bcqbq	bbcpr	bcprb	bx
	Felixstowe	bcb	bc	bc	b
	Gorleston	bc	bc	bebqpr	bqxbc
	Cranwell	cbcpr	bcpcpr	cmobmo	bmox
3	Cardington	bccmobc	bcqb	b bx	bxmo
	Birmingham	bc	bcprh	bc prs	bcbx
	Upper Heyford	cbcq	bcq pbc	bc	bcbx
	Leafield	bc	bccprhbc	bc	bcb
4	Ross-on-Wye	b	bbc	bccb	b bx
5	Portland Bill	cbc	bc	bcc	c
	Plymouth	cbcy	bcymo	b, cmo	odd mo
	Falmouth	bcq	bcc	cbco	oir
	Scilly (St. Mary's)	bcc	c	cdo	mrr
	Guernsey	bccq	bccbc	cbcco	oco
6	Pembroke	bcq	q bc	bcc	bcc
7	Holyhead	c, bq	bbc	cbcb	bwx
	Chester (Sealand)	bbcPHq	bcPRHq	pHq bc	bcmo
8	L'pool (Bidston)	bcpq	bccqr	phbcq	b bx
9	Harrogate	bbc	bcpob	b	b
10	Spurn Head	bc	bc	bc	bcx
	Tynemouth	bc	bc	bcb	bc
11	Inchkeith	cbcpr	bc	bc	bc
	Leuchars	bcxcrm	crs bv	bvbbcx	bx
12	Renfrew	bxPRSprbc	bccb	b bx	bx
	Eskdalemuir	cbxbc	bcsbx	bx	bx
13A	Tiree	bcPH	bc	bc	bc
13B	Stornoway	cphrq	bcrph	bcpr	bc
15	Dalwhinnie	psobc	psobc	cbc	bc
	Aberdeen	bbc, c	prsbc	bcprs	bcprs
	Wick	bcqprs	cprs	bcprsq	bcpr
16	Lerwick	bcprs	bcprcR	cpr, bc	bccpr
17	Blacksod Point	c	c	c	rr
18	Malin Head	bcphr	bcpc	cbcb	bxbcc
	Aldergrove	bcpr	bcb	bcx	bcxcx
	Donaghadee	irbcpr	prbc	bc	bcbx
19	Birr Castle	bc	c	c	coir
20	Valentia Obsy.	c	circ	circcr	cirroid
	Roches Point	bcc	c	coid	odd

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.
m, mist, ,, 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

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

<, less than (for cloud height).

⊕, solar halo. ◐, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

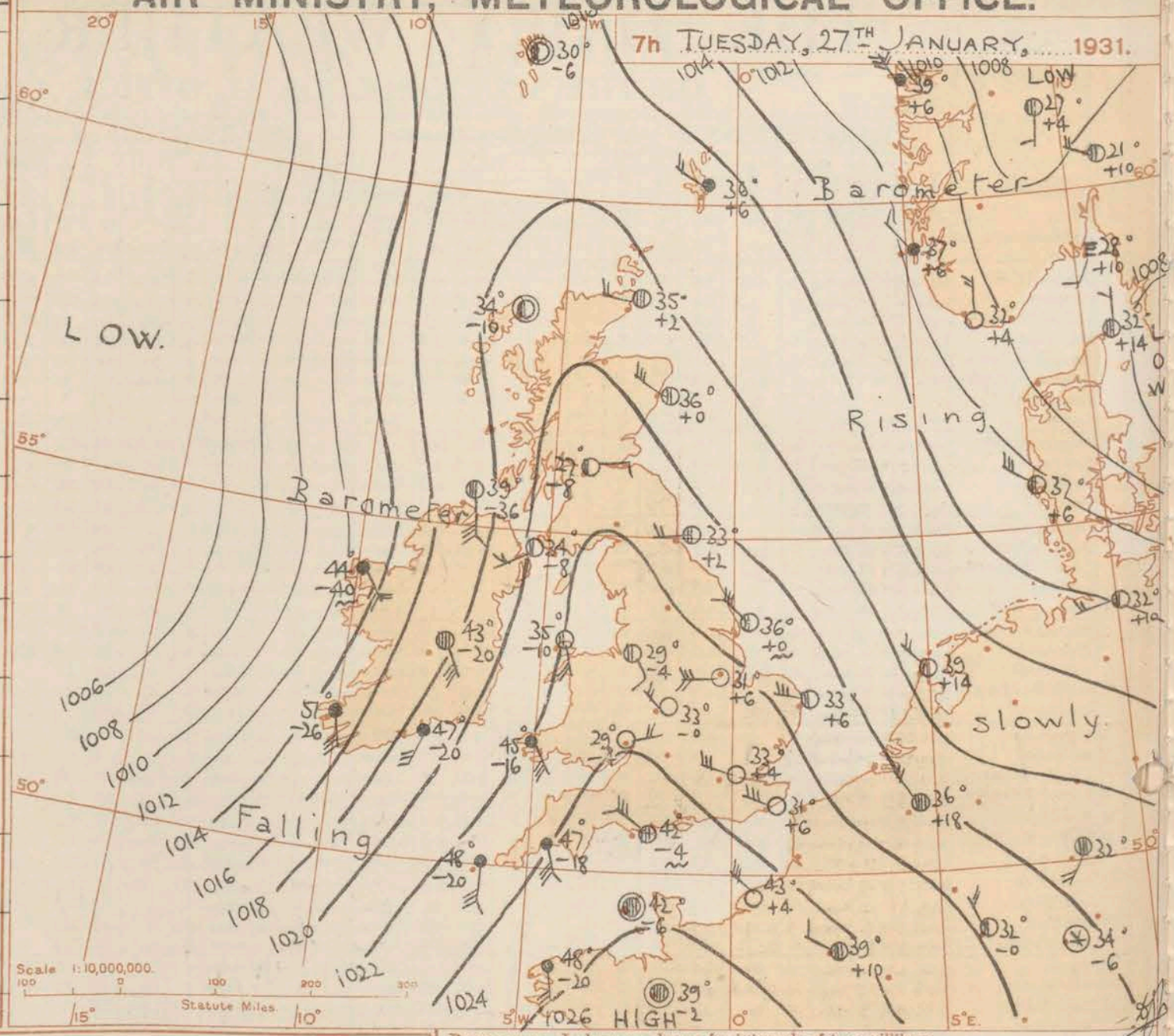
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for ...26th January.....1931.

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.	bcb	b	37	44	Trace	–	6.7
	Bournemouth	b	b	39	47	2	–	7.2
	Ventnor ...	rb	bbc	38	47	3	–	7.8
	Southsea ...	b	b	39	46	2	–	7.3
	Bognor Regis	b	b	36	46	2	–	7.8
	Littlehampton	bbc	bc	37	47	1	–	7.6
	Worthing ...	b	bbc	38	47	2	–	6.8
	Brighton ...	b	bbc	38	46	3	–	6.9
	Eastbourne†	b	b	36	46	4	–	7.5
	Hastings† ...	bbc	bcb	36	45	2	–	7.1
	Folkestone ...	xrbcb	bbcm	37	45	2	–	5.8
	Dover... ...	bcb	bbcm	38	45	1	–	6.4
	Deal	b	bbc	37	44	2	–	5.4
	Ramsgate ...	b	bbc	37	44	2	–	5.5
	Margate ...	bc	bc	37	43	Trace	–	5.5
2	Southend ...	b	bbcc	37	45	2	–	5.5
	Maldon ...	b	bcor	38	44	1	Trace	5.8
	Clacton-on-Sea	bc	bcpbc	36	44	2	0.1	6.3
	Dovercourt ...	rb	bc	36	44	2	–	7.0
	Lowestoft ...	b	b	34	41	0.4	–	7.1
	Skegness ...	bm	pm co	32	44	Trace	–	6.4
	Mablethorpe	bxbm	bcm	33	43	3	–	6.4
	Cleethorpes...	xmb	b	33	44	2	–	7.0
3	Leamington S.	c	c	35	46	1	–	5.5
4	Cheltenham†	bzbcb	bbcb	34	45	3	–	6.5
5	Bath	bbc	bbc	39	47	4	–	6.1
	Weymouth ...	b	b	39	50	3	–	7.0
	Jersey ...	rbc	cbc	45	49	3	–	4.5
	Torquay ...	bcpcb	bcb	40	47	1	–	6.2
	Penzance ...	cb	bcc	43	49	1	–	2.4
	St. Ives ...	c	c	44	47	1	–	0.8
	Bude	cbc	bc	42	46	1	–	3.6
	Ilfracombe ...	bbc	cbc	43	47	2	–	3.4
6	Aberystwyth	cbrb	bbcc	40	45	2	–	5.1
7	Llandudno ...	bc	bcc	41	45	0.3	–	3.6
	Colwyn Bay...	bccb	bbcc	39	45	2	–	1.5
	Rhyl	bcbbc	cbc	40	46	2	–	3.4
8	Wallasey ...	bbccp	bbch	39	44	2	1	3.8
	Southport‖ ...	bccbc	bccbc	39	44	2	–	4.6
	Blackpool ...	bc	cb	40	45	1	0.4	5.4
	Morecambe ...	rcbbc	dbcbc	36	43	4	1	3.2
9	Ilkley... ...	b	hcrb	31	42	3	2	3.7
10	Berwick-on-T.	bc	bc	32	42	–	–	4.7
11	Dunbar ...	bcc	b	33	41	–	–	5.2
12	Douglas ...	bccbq	RHbc	37	44	0.3	1	6.1

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



BAROMETER. Isobars are drawn for intervals of two millibars.
WIND. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 5/10 clouded. ◑ Sky 5/10 to 8/10 clouded. ◕ Sky 9/10 to 10/10 clouded. ● Overcast sky.
● Rain falling. ✱ Snow. ▲ Hail. ≡ Fog. ≡° Mist. T Thunder. ⚡ Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperatu

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 27th Jan. 1931.

Districts.	Forecasts
1. S.E. England 2. E. England... 3. E. Midlands	Winds becoming fresh southerly, veering a little; cloudy, some rain; milder temporarily.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Southerly winds veering westerly, fresh or strong; cloudy, some rain, at first, bright intervals, squally showers, later; mild becoming cooler.
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	As 4 - 9.
15. N.E. Scotland 16. Orkneys and Shetlands.	Winds becoming fresh to strong southerly; cloudy, some rain; milder temporarily.
17. N.W. Ireland ▼ 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland ▼	As 4 - 9.

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

W.H.P.

GENERAL INFERENCE.

A trough of low pressure off the western seaboard will move eastward and cause unsettled conditions generally with some rain in most districts.

FURTHER OUTLOOK.

Unsettled.

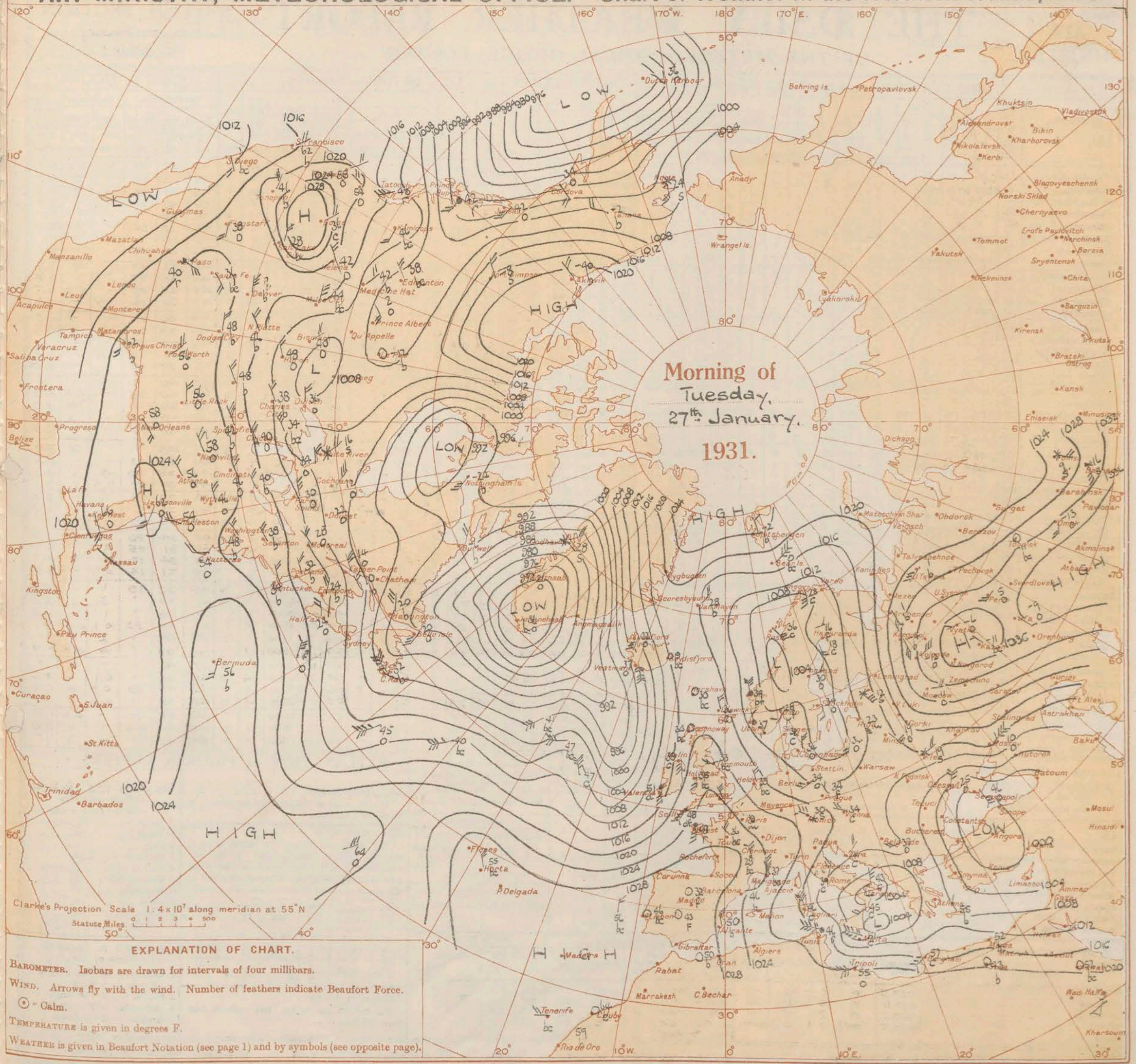
Time of issue of Gale Warning

▼ South Cone at 14.30 on 26th in 13A, 13B, 17 and 20.

Forecasts issued at 0950 G.M.T.

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

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



EXPLANATION OF CHART.

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 27th January 1931.

No. 25268

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

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	1022.8	+6	W'N	3	b	36	85	7	-	-	-	0	0	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1024.6	+6	W'N	3	b	37	85	8	-	-	-	0	0	-
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1021.3	+2	NW'W	4	m.	33	95	6	-	-	-	0	0	-
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	1019.2	+10	NW	3	b	36	95	7	-	-	-	0	0	-
	Cranwell	240	1021.8	+12	W'NW	3	b	34	95	6	-	-	-	0	0	-
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1025.3	0	NW'W	5	c	44	75	8	4	7	-	4-6	7-8	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	1027.6	-4	-	0	c	45	75	7	5	2	-	4-6	10	4000
	Scilly (St. Mary's)	163	1026.3	-8	S	2	i.r.	47	95	6	6	-	-	9+	9+	2500
	Guernsey	175	1026.7	-2	NW	2	0	46	65	7	5	-	-	10	10	2500
6	Pembroke	142	1024.3	-2	NNW	2	bc	44	95	8	8	-	-	4-6	4-6	2500
7	Holyhead	26	1023.4	-2	NW'N	3	b	43	85	8	1	-	9	Tr.	1	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1019.2	+10	NW'N	6	bc	37	86	7	-	2	-	0	2-3	-
	Tynemouth	67	1020.3	+10	WNW	3	bc	35	85	7	2	-	-	2-3	2-3	2500
11	Inchkeith	190	1021.4	+16	WSW	2	bc	36	95	6	5	8	-	2-3	2-3	1500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1020.5	+6	-	0	bc	37	95	7	9	1	-	4-6	4-6	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1018.1	+24	NNW	3	bc	38	95	8	9	7	-	4-6	4-6	1500
16	Lerwick	54	1014.7†	+26	NNW	2	bc	37	85	7	8	-	-	4-6	4-6	1500
17	Blacksod Point	18	1019.8	-22	SE	4	rr	44	95	6	6	-	-	10	10	<150
18	Malin Head	52	1022.5	-4	S	1	b	35	85	7	5	-	1	1	1	5700
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1021.3	-14	S	2	0	47	95	5	6	-	-	10	10	1500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1024.0	+4	SW'W	1	b	33	95	5	-	-	-	0	0	-	4	*
	Croydon	1023.4	+4	W'N	3	b	33	95	7	-	-	-	0	0	-	1	*
	S. Farnborough	1024.0	0	W	1	b	30	95	7	-	-	-	0	0	-	4	*
	Winchester	1024.4	-2	WNW	2	b	29	95	7	-	-	-	0	0	-	0	*
	Boscombe Down	1024.8	0	NNW	2	b	31	95	6	-	-	-	0	0	-	0	*
	Calshot, (S'thmtn)	1024.5	-2	SW'W	2	b	33	95	7	5	-	1	1	1	2500	1	1
	Dungeness	*	*	W'N	3	b	*	*	7	-	-	*	0	0	-	*	2
	Lympne	1022.5	+6	WNW	3	m.	31	95	5	-	-	-	0	0	-	4	*
2	Shoeburyness	1023.0	+6	WNW	3	b	33	95	8	-	-	-	0	0	-	4	*
	Felixstowe	1022.3	+6	W'N	2	b	35	85	7	-	-	-	0	0	-	0	1
	Gorleston	1020.7	+6	NW'W	3	bc	33	95	7	-	3	-	0	2-3	-	4	2
	Cranwell	1022.5	+6	W	3	b	31	95	6	-	-	-	0	0	-	4	*
3	Cardington	1023.3	+2	WNW	2	b	31	95	6	-	-	-	0	0	-	4	*
	Birmingham	1023.5	0	NW	2	b	33	85	6	-	-	-	0	0	-	1	*
	Upper Heyford	1024.2	0	SW	3	b	30	95	8	-	-	-	0	0	-	4	*
	Leafield	1023.7	0	SW'W	2	b	31	85	8	-	-	-	0	0	-	4	*
4	Ross-on-Wye	1023.9	-4	E	2	b	29	95	6	5	-	1	Tr.	Tr.	5700	4	*
5	Portland Bill	1024.5	-4	NW'W	4	c	42	85	8	4	-	-	7-8	7-8	2500	1	4
	Plymouth	1024.0	-14	NE	3	dd	40	95	6	6	-	-	10	10	460	1	0
	Falmouth	1024.0	-18	SSE	4	i.r.	47	85	8	6	-	-	10	10	4000	1	2
	Scilly (St. Mary's)	1021.6 ~~1022.5~~	-20	S'W	4	df	48	95	3	5	-	-	10	10	<150	1	2
	Guernsey	1025.1	-6	-	0	0	42	85	7	5	-	-	10	10	2500	0	3
6	Pembroke	1022.0	-16	SE	3	i.r.	45	95	7	5	-	-	10	10	1500	1	2
7	Holyhead	1022.1	-10	SSE	2	bc	35	95	8	-	-	9	0	4-6	-	1	1
	Chester (Sealand)	1022.7	-4	SE'S	1	m	29	95	4	5	-	-	2-3	2-3	2500	4	*
8	L'pool (Bidston)	1022.7	0	SW	2	b	37	95	8	-	-	-	0	0	-	1	*
9	Harrogate	1020.9	0	WSW	1	b	32	85	8	-	-	-	0	0	-	4	*
10	Spurn Head	1020.7	0	NW'N	4	bc	36	~~95~~ 85	7	-	1	-	0	2-3	-	5	4
	Tynemouth	1020.8	+2	W	2	bc	33	85	6	5	-	-	2-3	2-3	800	4	2
11	Inchkeith	1021.6	0	WSW	2	bc	35	95	7	5	-	-	2-3	2-3	1500	0	0
	Leuchars	1020.6	+2	W	3	b	32	85	8	-	-	-	0	0	-	4	*
12	Renfrew	1021.8	-8	E	1	bc	27	95	7	5	-	1	1	2-3	4000	4	*
	Eskdalemuir	1023.2	0	-	0	b	21	85	8	-	-	-	0	0	-	6	*
13A	Tiree	1016.1	-28	SE'S	3	c	38	75	9	5	3	1	Tr.	7-8	2500	0	3
13B	Stornoway	1018.3	-10	-	0	bc	34	95	7	4	-	-	2-3	2-3	4000	1	0
15	Dalwhinnie	1021.5	-2	NNE	1	bc	25	95	8	5	-	-	4-6	4-6	4000	8	*
	Aberdeen	1019.7	0	NW	3	bc	36	85	8	8	-	-	4-6	4-6	2500	5	1
	Wick	1018.9	+2	WNW	2	c	35	95	8	9	1	8	4-6	9	1500	1	3
16	Lerwick	1016.7	+6	NW	2	c/pr	36	95	8	8	-	-	7-8	7-8	1500	1	*
17	Blacksod Point	1013.2	-40	SE	5	r.r.	44	95	7	6	-	-	10	10	<150	1	4
18	Malin Head	1017.2	-36	S'E	4	c	39	75	8	5	-	-	9+	9+	5700	4	2
	Aldergrove	1020.3	-16	E'S	3	c	36	75	7	5	-	8	4-6	7-8	5700	4	*
	Donaghadee	1021.0	-8	WSW	2	bc	34	95	7	5	-	-	2-3	2-3	2500	4	0
19	Birr Castle	1017.7	-20	SSE	3	o/r	43	95	7	6	-	-	10	10	2500	1	*
20	Valentia Obsy.†	1015.5	-26	S'E	3	id.	51	95	5	5	-	-	10	10	800	1	3
	Roches Point	1018.1	-20	SW	3	dd.	47	95	6	5	-	-	10	10	1500	1	3

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h-18h °F. (31)	Temperature Min. Night 18h-7h °F (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h-18h mm. (34)	Rainfall Night 18h-7h mm. (35)	Sunshine 26th Hrs. (36)
1	London (Kew)	45	32	21	Tr.	0.2	5.1
	Croydon	45	33	27	-	Tr.	4.0
	S. Farnborough	46	30	17	-	Tr.	6.8
	Winchester	46	28	21	Tr.	-	7.8
	Boscombe Down	44	29	25	-	-	*
	Calshot, (S'thmtn)	46	32	24	-	-	8.0
	Dungeness	45	29	*	-	-	*
	Lympne	43	31	26	-	-	6.2
2	Shoeburyness	45	32	27	0.1	Tr.	5.7
	Felixstowe	44	34	29	-	-	6.8
	Gorleston	44	32	29	-	0.2	6.7
	Cranwell	43	30	26	0.4	-	4.6
3	Cardington	44	30	25	Tr.	-	4.2
	Birmingham	44	33	27	Tr.	2	5.6
	Upper Heyford	45	29	20	-	-	*
	Leafield	48	31	22	0.4	-	6.7
4	Ross-on-Wye	45	29	19	-	-	8.0
5	Portland Bill	47	40	*	-	-	*
	Plymouth	47	40	35	-	0.3	4.3
	Falmouth	48	44	*	-	Tr.	3.9
	Scilly (St. Mary's)	48	45	*	-	3	1.7
	Guernsey	48	42	33	-	-	5.5
6	Pembroke	47	43	*	-	Tr.	3.4
7	Holyhead	46	34	27	-	-	5.6
	Chester (Sealand)	44	28	23	4	1	3.3
8	L'pool (Bidston)	43	37	31	0.4	1	3.1
9	Harrogate	42	32	27	Tr.	-	5.5
10	Spurn Head	42	35	*	-	-	6.3
	Tynemouth	43	33	28	-	-	*
11	Inchkeith	42	34	30	-	-	5.5
	Leuchars	41	31	25	1	-	5.9
12	Renfrew	42	24	17	1	-	4.1
	Eskdalemuir	39	21	14	0.2	-	5.2
13A	Tiree	44	32	19	1	-	4.2
13B	Stornoway	41	33	*	3	1	3.9
15	Dalwhinnie	35	24	*	1	-	0.8
	Aberdeen	41	35	32	0.1	0.4	3.1
	Wick	39	34	*	2	1	*
16	Lerwick	41	35	*	4	0.4	1.7
17	Blacksod Point	47	41	*	-	2	*
18	Malin Head	45	33	*	0.1	-	3.2
	Aldergrove	43	28	23	0.3	Tr.	5.2
	Donaghadee	45	30	*	0.6	-	*
19	Birr Castle	46	37	31	-	0.5	1.2
20	Valentia Obsy.†	48	45	44	1	6	0.0
	Roches Point	47	42	*	-	3	*

LONDON OBSERVATIONS.

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

	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	b bc z.	bc z.	cm r bx	45	32	21	Tr.	0.2	5.1	*	*	3
Croydon	217	c bc z.	c z.	cpr bmx	45	33	27	-	Tr.	4.0	*	*	7
Greenwich (Royal Observatory)	149	c	bcy	bc bxf	44	32	22	-	Tr.	1.6	59	91	2
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	2.5	*	*	*
Westminster (St. James' Park)	27	*	*	*	46	31	25	-	-	3.4	58	94	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	2.5	*	*	*
Camden Square	110	bcc	cb	*	43	33	23	-	-	*	*	91	*
Kensington Palace	80	bbc	bbc	*	45	32	23	-	-	*	At 18h. 65	92	*
Hampstead Observatory	450	bcc	bc	*	44	29	20	Tr.	-	4.2	*	91	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
1.0	20h. 26th	<0.3	0h-6h 27th

Kew Observatory Max.	Time.	Min.	Time.
0.6	8h. 26th	0.1	24h. 26th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 26th January Barom. mb.	Wind Direc.	Wind Force.	Weather.	Temp. °F.	7h. G.M.T. 27th January 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	1023.9	W	2	bc	43	1024.2	WNW	1	m	39	46	37	-	9
Brussels	1019.6	W	2	b	36	1020.0	NW	2	o	36	41	34	Tr.	3
Berlin	1009.1	W	2	c	37	1010.9	WSW	2	m	34	39	34	-	-
Zürich	1020.0	NW	3	c	34	1022.8	SW	1	c	30	37	28	7	-
Rome						1010.9	NNE	2	c	39		34		-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Wednesday, 28th January, 1931.

No. 25,269.

OBSERVATIONS at 13h. G.M.T. 27th January

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)	1022.2	-14	W	2	b	41	75	6	7	-	-	1	1	2500
	Croydon	1022.0	-16	WSW	2	z_o	45	65	6	-	-	1	0	1	-
	S. Farnborough	1021.7	-18	SW	1	b	46	55	7	-	9	-	0	1	-
	Winchester	1022.4	-18	SE'S	2	c	40	85	7	-	7	-	0	7-8	-
	Boscombe Down	1022.1	-20	S	3	c	41	75	6	-	1	-	0	9+	-
	Calshot, S'thmtn	1022.6	-20	SE'E	2	c	43	85	6	-	7	-	0	9	-
	Dungeness	*	*	W	2	b	*	*	7	-	-5	*	0	10	-
	Lympne	1021.7	-12	SW	2	z_o	45	65	6	5	-	-	1	1	1500
2	Shoeburyness	1022.2	-12	W	2	b	44	65	8	-	-	-	0	0	-
	Felixstowe	1021.8	-10	WNW	1	z_o	41	75	6	-	-	-	0	0	-
	Gorleston	1020.4	-4	W	2	bc	43	85	6	5	-	-	2-3	2-3	4000
	Cranwell	1020.8	-20	SW'S	1	b	45	55	6	-	-	1	0	1	-
3	Cardington	1021.6	-18	SW	1	b	45	65	6	-	-	1	0	1	-
	Birmingham	1020.8	-14	SSW	2	bc	41	65	6	-	4	1	0	2-3	-
	Upper Heyford	1021.4	-22	SW	2	bc	43	65	7	1	7	6	1	4-6	2500
	Leafield	1020.9	-6	S'E	2	bc	41	75	7	5	3	8	2-3	4-6	4000
4	Ross-on-Wye	1019.9	-20	S	2	c	41	65	6	-	1	-	0	9+	-
5	Portland Bill	1021.2	-22	SE	4	rr	46	85	6	5	-	-	10	10	1500
	Plymouth	1019.7	-30	SSE	3	dd	47	95	5	6	-	-	10	10	220
	Falmouth	1019.3	-10	SW	4	$d_o d_o$	50	95	5	5	-	-	10	10	1500
	Scilly (St. Mary's)	1018.5	-20	SW	4	df	50	95	1	5	-	-	10	10	<150
	Guernsey	1022.2	-22	S	3	$r_o r_o$	46	85	6	6	-	-	10	10	1500
6	Pembroke	1016.4	-30	SSE	4	$d_o d_o$	45	95	4	5	-	-	10	10	800
7	Holyhead	1016.5	-38	S'E	4	$r_o r_o$	42	85	7	6	1	-	9+	10	4000
	Chester (Sealand)	1019.4	-26	SE'S	3	c	40	75	7	-	3	1	0	7-8	-
8	L'pool (Bidston)	1018.9	-16	ESE	3	c	40	75	5	5	-	8	7-8	9	2500
9	Harrogate	1019.9	-6	S	1	b	44	65	7	-	-	8	0	1	-
10	Spurn Head	1020.1	-2	WNW	1	m	41	75	4	5	-	-	7-8	7-8	<150
	Tynemouth	1018.8	-20	NW	1	bc	41	65	6	5	-	-	4-6	4-6	800
11	Inchkeith	1017.7	-24	E	1	z	40	85	5	5	-	1	2-3	2-3	1500
	Leuchars	1017.3	-24	WSW	1	bc	43	75	6	-	-	5	0	2-3	-
12	Renfrew	1017.5	-30	E	1	f	32	95	2	-	-	-	0	0	-
	Eskdalemuir	1018.3	-24	SSW	2	bc	36	75	8	1	-	5	Tr.	2-3	1500
13A	Tiree	1011.4	-44	SE'S	6	c	42	85	8	5	2	8	2-3	9+	1500
13B	Stornoway	1011.2	-30	SSE	3	c	42	75	9	4	7	-	4-6	9+	4000
15	Dalwhinnie	1015.7	-28	S	3	bc	34	75	8	5	-	1	2-3	4-6	4000
	Aberdeen	1016.4	-24	WSW	2	b	42	75	8	-	-	-	0	0	-
	Wick	1015.1	-20	S	2	c	40	85	8	8	-	8	4-6	7-8	2500
16	Lerwick	1014.6	-14	NW	2	c	37	75	8	5	-	-	9+	9+	1500
17	Blacksod Point	1003.8	-60	SE	5	RR	46	95	5	6	-	-	10	10	<150
18	Malin Head	1008.6	-40	SSE	5	c/r	42	95	7	6	1	-	7-8	10	1500
	Aldergrove	1013.2	-42	SE	5	$r_o r_o$	42	95	6	5	2	-	7-8	10	1500
	Donaghadee	1015.3	-28	S'W	2	ir_o	42	95	7	5	2	-	7-8	7-8	1500
19	Birr Castle	1009.7	-54	S	3	$r_o r_o$	48	95	6	6	-	-	10	10	1500
20	Valentia Obsy.	1008.7	-40	SSW	6	c/r	51	85	8	5	-	-	9	9	1500
	Roches Point	1012.5	-26	SW	3	dd	48	95	6	5	-	-	10	10	800

OBSERVATIONS at 18h. G.M.T. 27th January

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	-22	S	3	z	40	75	5	-	2	-	0	10	-	1	*
	Croydon	1018.4	-16	S	3	z_o	39	75	6	4	7	-	2-3	9	5700	1	*
	S. Farnborough	1017.8	-26	S	1	ir	40	85	6	5	2	-	7-8	10	5700	1	*
	Winchester	1017.6	-22	S	3	$r_o r_o$	40	95	6	5	2	-	7-8	10	4000	1	*
	Boscombe Down	1017.3	-28	S	3	$r_o r_o$	40	95	6	6	-	-	10	10	1500	1	*
	Calshot, S'thmtn	1018.2	-26	SSE	3	rr	43	95	6	6	-	-	10	10	1500	1	2
	Dungeness	*	*	SW	2	bc	*	*	7	-	7	*	0	2-3	-	*	1
	Lympne	1019.3	-10	SW	2	z_o	35	95	6	-	-	8	0	2-3	-	1	*
2	Shoeburyness	1019.0	-18	-	0	z	33	95	5	-	-	8	0	2-3	-	1	*
	Felixstowe	1019.3	-14	SSW	2	b	38	85	7	-	-	-	0	0	-	0	1
	Gorleston	1018.5	-14	SW	2	bc	38	75	6	-	7	-	0	2-3	-	0	1
	Cranwell	1016.6	-22	S'E	3	bc	34	95	6	-	1	6	0	4-6	-	1	*
3	Cardington	1017.2	-26	SSW	3	c	36	85	7	-	7	7	0	10	-	1	*
	Birmingham	1015.3	-26	S	3	$r_o r_o$	38	95	6	6	2	-	4-6	10	2500	1	*
	Upper Heyford	1017.3	-24	S'E	4	$r_o r_o$	38	85	6	6	-	-	10	10	1500	1	*
	Leafield	1016.3	-20	S'E	3	rr	37	95	6	6	-	-	10	10	1500	1	*
4	Ross-on-Wye	1015.0	-30	SW	2	id.	41	95	6	5	-	-	10	10	1500	1	
5	Portland Bill	1016.0	-22	SSE	5	Dr	46	95	5	5	-	-	10	10	800	2	4
	Plymouth	1014.9	-20	SW	3	dd	49	95	5	6	-	-	10	10	<150	2	2
	Falmouth	1015.2	-10	SW'S	4	DD	50	95	5	5	-	-	10	10	1500	2	2
	Scilly (St. Mary's)	1015.1	-2	WNW	7	c	49	95	7	5	-	-	7-8	7-8	4000	1	3
	Guernsey	1018.0	-22	S	1	rr	46	95	5	6	-	-	10	10	1500	2	3
6	Pembroke	1011.1	-26	SW'W	4	rr	49	95	6	5	2	-	9	10	800	2	3
7	Holyhead	1009.2	-38	S	6	id	44	95	5	6	1	-	9+	10	450	1	3
	Chester (Sealand)	1013.4	-36	SE'S	4	$r_o r_o$	38	95	6	6	-	-	10	10	1500	1	*
8	L'pool (Bidston)	1011.5	-32	ESE	4	$r_o r_o$	37	95	6	6	-	-	10	10	1500	1	*
9	Harrogate	1014.7	-20	SSE	1	bc	35	85	6	-	-	8	0	2-3	-	4	*
10	Spurn Head	1016.5	-10	S'W	3	bc	38	85	6	5	-	-	4-6	4-6	1500	0	4
	Tynemouth	1013.5	-30	S	2	bc	36	85	6	5	-	-	4-6	4-6	800	0	2
11	Inchkeith	1012.4	-24	E	2	bc	37	95	8	5	1	-	2-3	4-6	1500	0	0
	Leuchars	1012.4	-20	SE	2	bc	34	85	6	-	7	8	0	4-6	-	4	*
12	Renfrew	1010.4	-38	SE	3	$r_o r_o$	36	95	6	6	2	-	7-8	10	2500	1	*
	Eskdalemuir	1012.3	-34	-	0	c	33	85	8	-	1	-	0	10	-	6	*
13A	Tiree	1007.7	-40	SE'E	6	c	41	95	7	5	2	-	9+	10	1500	1	4
13B	Stornoway	1006.3	-20	SSE	3	c	42	75	8	4	2	-	7-8	10	4000	1	2
15	Dalwhinnie	1010.4	-28	S	5	bc	31	85	8	5	-	-	4-6	4-6	4000	8	*
	Aberdeen	1011.8	-26	SSW	2	c	37	85	5	5	5	6	4-6	7-8	2500	4	1
	Wick	1010.7	-32	S	4	bc	40	75	8	8	8	8	4-6	4-6	2500	1	3
16	Lerwick	1012.2	-10	NW	1	c	36	75	8	5	-	-	9	9	1500	0	*
17	Blacksod Point	1000.6	-58	W	9	u	45	85	6	9	-	-	9+	9+	<150	1	9
18	Malin Head	999.5	-70	SSE	5	id.	44	95	5	6	2	-	7-8	10	800	1	3
	Aldergrove	1004.9	-58	SE'E	4	$r_o r_o$	44	95	6	5	-	-	10	10	800	1	*
	Donaghadee	1006.0	-44	S	6	ir_o	43	95	6	5	-	-	10	10	800	1	3
19	Birr Castle	1005.8	-10	SW	4	c	47	85	7	5	-	-	9	9	2500	1	*
20	Valentia Obsy.	1014.2	+42	W	6	bc	48	75	8	8	-	-	4-6	4-6	2500	1	4
	Roches Point	1012.1	+6	W	4	c	47	95	8	8	-	-	9	9	1500	1	3

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)	bfbz$_o$	bz$_o$bccm$_o$	om$_o$r$_o$r	om$_o$r$_o$rc
	Croydon	bcz$_o$	bz$_o$yc	cod$_o$rrm$_o$	orrbbccm
	S. Farnborough	bxm$_o$bc	bycm$_o$r$_o$	cr$_o$rrddmm	oidm$_o$c
	Winchester	bxmbcc	cir$_o$r$_o$r$_o$m$_o$	or$_o$rddmm	omcbc
	Boscombe Down	bm$_o$cm$_o$	cm$_o$r$_o$r$_o$m$_o$	or$_o$rddm$_o$c	cbcq
	Calshot, S'thmtn	bxm$_o$cm$_o$	cm$_o$r$_o$r$_o$m$_o$	orrddm$_o$	cbcq
	Dungeness	b	b	*	bc
	Lympne	bm$_o$z$_o$	bbcm$_o$	orr r$_o$	or$_o$ prob
2	Shoeburyness	b	bm$_o$	bxbcir	cir
	Felixstowe	bz$_o$	by	b, crr	crr, bc
	Gorleston	bc	bcm$_o$m	bcmmrcx	orrq
	Cranwell	bmxbz	bz$_o$bcm	cr$_o$orrcdm	cm$_o$c
3	Cardington	bm$_o$	bbcc	crrc	cid$_o$
	Birmingham	b	bccr	cor$_o$r$_o$	oc
	Upper Heyford	bxc	bccor$_o$r$_o$m	or$_o$r	oir$_o$c
	Leafield	bbc	bcor	orcr	cr$_o$
4	Ross-on-Wye	bcc	crmid$_o$	omid	cq, c
5	Portland Bill	ctrz$_o$	RRdr	odfc	cbc
	Plymouth	od$_o$dm$_o$	oddm$_o$	odrrm$_o$c	cbq
	Falmouth	cmD	omD	omDbcq	bcq
	Scilly (St. Mary's)	ffd	dfrmc	cbccp	bccbc
	Guernsey	oidr$_o$	orr	oiroc	coc
6	Pembroke	orrmd	ddFjrr	rrbcbq	bq
7	Holyhead	bbcr$_o$	r$_o$r$_o$c$_o$d$_o$q	d$_o$cq	cq
	Chester (Sealand)	xbcm$_o$	c r$_o$r$_o$	cirq	oq r$_o$r$_o$
8	L'pool (Bidston)	bcmc	cmr$_o$r	or$_o$o	oqrr
9	Harrogate	b	b	bbcir	or$_o$
10	Spurn Head	bcm	bcm	bccoir	oirc
	Tynemouth	bcm	bc	bcoir$_o$	o
11	Inchkeith	bcm	bcim$_o$	crr r$_o$r$_o$	om$_o$n?
	Leuchars	bxbm$_o$	bbcxm$_o$	bccxcr$_o$r$_o$	cr$_o$m$_o$
12	Renfrew	bxbjjx	jxcm$_o$r$_o$ps r$_o$r$_o$c	c, r$_o$r$_o$	
	Eskdalemuir	bxbc	bcc	crodd	odc
13A	Tiree	bcc	corrc	cir	ordm$_o$
13B	Stornoway	c	c	bcp$_o$	c
15	Dalwhinnie	bc	bcq	g	copsf
	Aberdeen	bcbz$_o$	bbcz$_o$	c	cir$_o$
	Wick	c	cbc	bc	bcc
16	Lerwick	c	c	c	cbc
17	Blacksod Point	rr	ir	prqc	prqc
18	Malin Head	crr	c	cmdcmr	cmmcir
	Aldergrove	cxr$_o$r$_o$m$_o$	cr$_o$d$_o$r$_o$r$_o$	cr$_o$m$_o$	cr$_o$m$_o$
	Donaghadee	cir$_o$	oir$_o$m$_o$q	icc	cq
19	Birr Castle	or$_o$	or$_o$cr$_o$c	cbcb	bbc
20	Valentia Obsy.	odd$_o$ir$_o$c	cp$_o$bc	bccp$_o$	cp p$_o$c
	Roches Point	od$_o$odd	odcirc	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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

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

<, less than (for cloud height).

⊕, solar halo. ☾, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

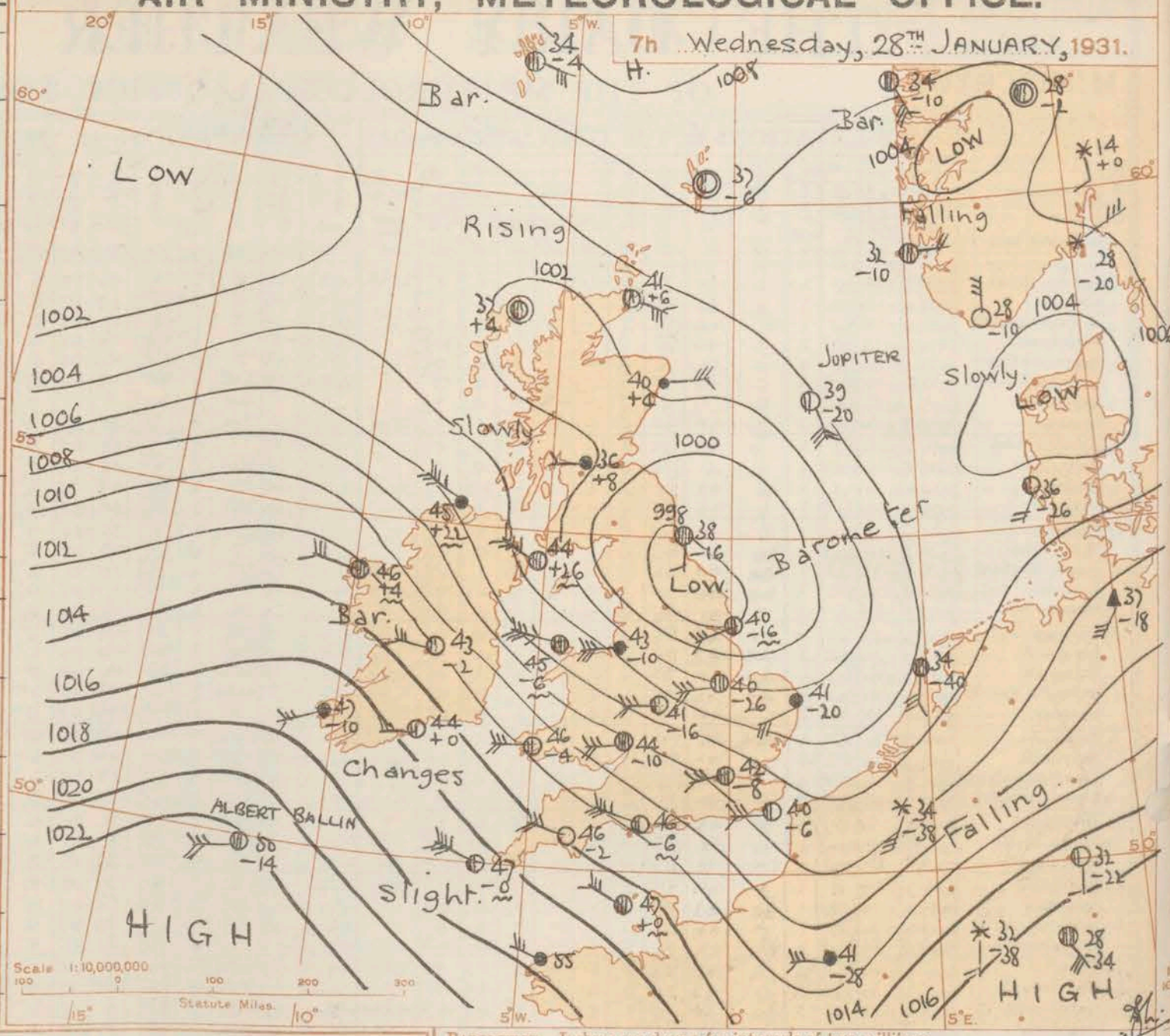
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

AIR MINISTRY, METEOROLOGICAL OFFICE.

REPORTS from HEALTH RESORTS for 27th JANUARY, 1931.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 26th to 9h. 27th	Temperature. Max. 9h.—17h. 27th	Rainfall. Night. 17h. 26th to 9h. 27th	Rainfall. Day. 9h.—17h. 27th	Sunshine. Sunrise to Sunset. 27th
1	Tunbridge W.	b	bbc	28	45	-	-	7.0
	Bournemouth	cod	d	29	44	-	2	0.6
	Ventnor ...	xbou	ouor	35	46	-	Tr.	2.2
	Southsea ...	bmbc	eq	32	44	-	-	2.9
	Bognor Regis	bbcc	bccb	32	45	-	-	4.4
	Littlehampton	bbc	bcc	29	45	-	-	5.6
	Worthing ...	b	bbc	33	47	-	-	6.4
	Brighton ...	b	bbc	34	45	-	-	6.1
	Eastbourne†	b	bbcc	35	45	-	-	7.3
	Hastings† ...	xb	bbc	32	44	0.1	-	7.5
	Folkestone ...	xb	b	32	45	-	-	7.0
	Dover... ...	mb	b	35	45	-	-	7.5
	Deal	b	b	33	44	-	-	7.4
	Ramsgate ...	bm	bm	36	44	0.2	-	7.1
	Margate ...	bc	b	37	42	-	-	7.0
2	Southend ...	bmz	bz	32	47	Tr.	-	5.4
	Maldon ...	xb	bcm	30	45	0.3	-	6.2
	Clacton-on-Sea	bbc	bcm	31	46	-	-	7.2
	Dovercourt ...	xb	bbc	32	45	-	-	7.3
	Lowestoft ...	b	b	32	41	-	-	7.5
	Skegness ...	bcmo	bmo	31	45	Tr.	-	7.0
	Mablethorpe	bxbmo	bmo	31	46	-	-	7.3
	Cleethorpes ...	xfb	b	32	47	-	-	6.9
3	Leamington S.	c	co	28	45	0.3	-	4.7
4	Cheltenham†	byxb	corr	27	42	-	1	2.2
5	Bath	bcc	crr	28	42	-	2	1.0
	Weymouth ...	ccd	dpcd	34	46	Tr.	2	0.0
	Jersey ...	cf	fd	43	47	-	3	0.0
	Torquay ...	rpop	odrm	38	48	Tr.	2	0.0
	Penzance ...	omd	ordf	44	52	4	1	0.0
	St. Ives ...	d	d	45	50	2	2	0.0
	Bude	ooe	oed	40	50	1	2	0.0
	Ilfracombe ...	dd	dd	41	48	0.3	1	0.0
6	Aberystwyth	c	circ	33	46	-	1	0.0
7	Llandudno ...	bco	orc	33	43	-	1	1.7
	Colwyn Bay...	xbcco	oorc	33	43	-	1	2.4
	Rhyl	xbcc	crc	31	43	-	2	2.3
8	Wallasey ...	fmbc	bccr	35	42	1	1	2.3
	Southport‖ ...	bcofc	bccor	32	41	-	1	1.2
	Blackpool ...	cz	co	32	45	-	-	2.8
	Morecambe ...	xcbbc	bcb	29	41	-	-	4.5
9	Ilkley... ...	b	bbcem	29	43	-	-	4.9
10	Berwick-on-T.	bc	bc	30	41	-	-	6.6
11	Dunbar ...	b	b	33	43	-	-	6.5
12	Douglas ...	xcbcoubbm		34	43	1	3	1.1

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

FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 28th Jany. 1931.

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 11. S.E. Scotland 12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland	Fresh winds mainly from a westerly point, stronger at times; rain at times or squally showers but brighter intervals; rather low temperature.
15. N.E. Scotland 16. Orkneys and Shetlands.	Variable to westerly winds, fresh, strong at times; rain at times or squally showers but brighter intervals; rather low temperature.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	As 1-14.

GENERAL INFERENCE.

A complex depression over our northern districts is likely to move east-north-east while small secondary disturbances move eastward across the southern half of the country. Weather will be unsettled and rather cold generally with rain at times or squally showers in most areas.

FURTHER OUTLOOK.

Fresh westerly winds, strong perhaps at times; cloudy, rain at times or squally showers; rather cold.

Times of issue of Gale Warnings.

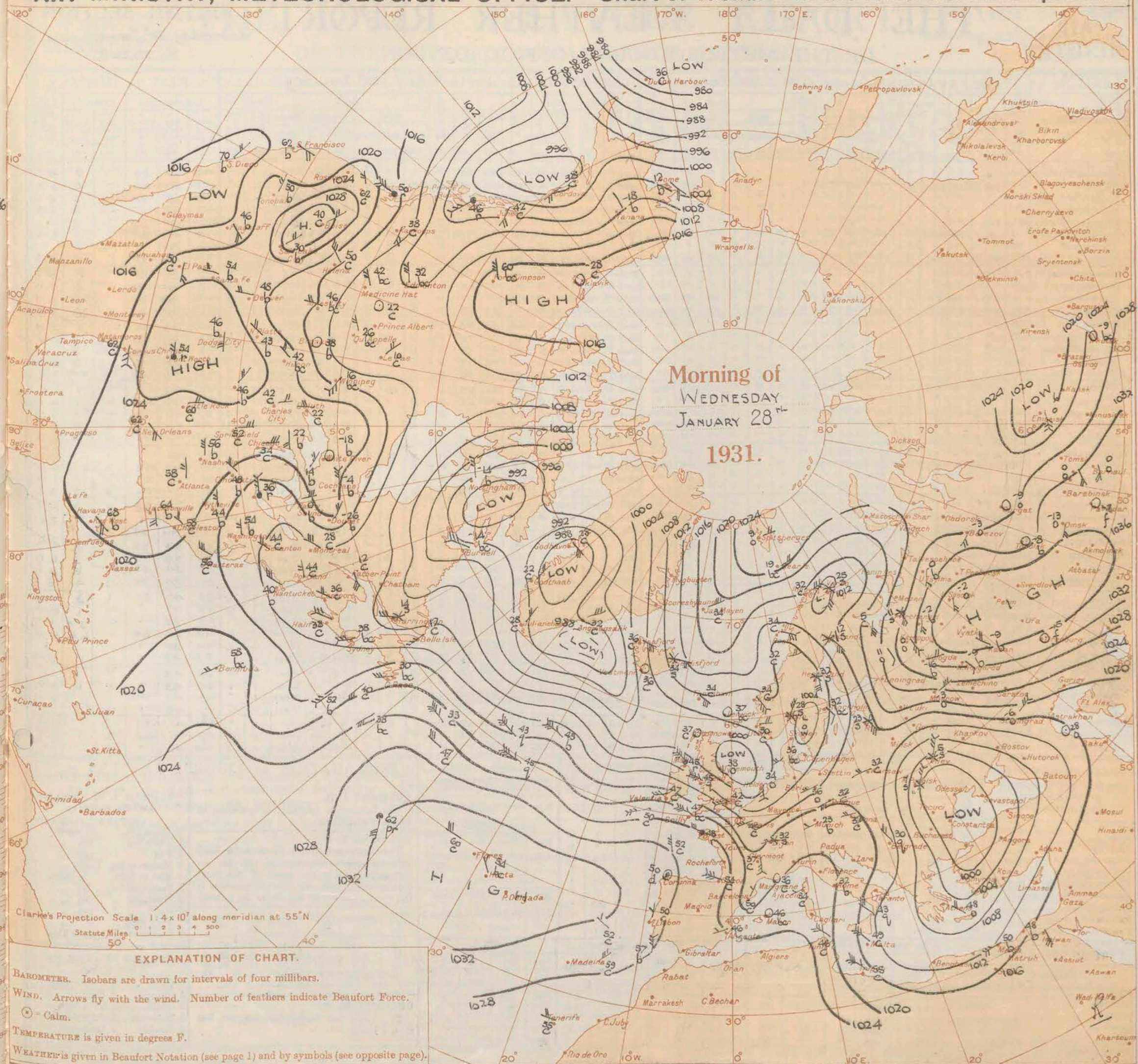
South cone at 1430 on 26th in 13A, 13B, 17, 19; and at 1900 on 27th in 5, 6, 7, 8, 12, 15, 16, 18, 20.

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, 28th January, 1931.

No. 25,269.

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

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	1009.8	-38	SSW	5	rr	43	95	6	6	-	-	10	10	450
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1011.1	-18	NW'W	4	c/d	46	85	7	8	4	-	4.6	7.8	2500
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1011.5	-38	S'W	4	ir.	40	95	7	6	-	-	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	1010.1	-32	S'W	3	rr	39	95	6	6	-	-	10	10	800
	Cranwell	240	1006.2	-44	SW'S	4	id.	40	95	6	6	2	-	7.8	10	2500
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1011.4	-4	W'N	6	c	47	96	8	4	4	-	2.3	7.8	1500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	1017.2	+12	W	5	bc	47	75	7	3	-	-	2.3	2.3	2500
	Scilly (St. Mary's)	163	1017.7	+16	NW	7	bc	47	65	7	2	-	-	2.3	2.3	4000
	Guernsey	175	1014.8	+2	NW	4	c	49	85	6	5	-	-	7.8	7.8	2500
6	Pembroke	142	1012.1	+4	W	5	q	47	65	7	-	3	-	0	Tr.	-
7	Holyhead	26	1007.4	0	W'S	7	q	45	75	7	5	-	-	9+	9+	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1004.9	-24	SSW	5	ir	39	95	6	6	-	-	10	10	2500
	Tynemouth	67	1003.1	+32	S	2	o	37	95	6	6	-	-	10	10	1500
11	Inchkeith	190	1002.0	-32	E	2	fo	37	95	7	5	-	-	10	10	1500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1001.2	-4	NNW	1	c	39	85	7	4	2	-	2.3	10	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1004.0	-16	SSE	5	bc	40	75	8	2	8	-	4.6	4.6	2500
16	Lerwick	54	1007.3	-16	NE	2	c	36	75	8	5	-	-	10	10	1500
17	Blacksod Point	18	1011.3	+40	WNW	8	c	46	65	7	3	-	-	7.8	7.8	220
18	Malin Head	52	998.3	+34	WNW	8	ir.	45	85	6	6	2	-	9	10	1500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1017.4	+14	W	7	cu	46	95	7	6	-	-	9	9	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 28th January

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)	1007.7	-8	WSW	4	c	42	75	7	-	7	-	0	9+	-	1	*
	Croydon	1008.7	-2	W'S	4	m.	42	75	6	5	-	-	9+	9+	2500	1	*
	S. Farnborough	1008.9	-8	W	3	c	41	75	7	5	1	-	7.8	10	4000	1	*
	Winchester	1009.5	-8	WNW	5	bc	41	76	7	5	-	-	4.6	4.6	4000	1	*
	Boscombe Down	1009.7	-10	NW	5	q	40	86	7	5	-	-	2.3	2.3	4000	1	*
	Calshot, (S'thmtn)	1010.5	-6	WNW	5	bc	43	75	7	5	4	-	4.6	4.6	1500	1	2
	Dungeness	*	*	W	3	b	*	*	8	-	3	*	0	1	-	*	2
	Lympne	1007.2	-6	W	4	bc	40	95	7	-	3	-	0	2.3	-	1	*
2	Shoeburyness	1006.0	-14	W'N	4	c	42	95	8	-	7	-	0	7.8	-	1	*
	Felixstowe	1005.5	-16	W	3	bc	42	85	7	5	3	-	4.6	4.6	4000	1	2
	Gorleston	1003.5	-20	WSW	3	r.r.	41	95	6	6	-	-	10	10	800	1	2
	Cranwell	1001.9	-26	WSW	5	c	40	85	7	5	3	-	4.6	9+	2500	1	*
3	Cardington	1005.6	-14	W'S	5	id.	42	95	7	5	1	-	4.6	7.8	2500	1	*
	Birmingham	1006.3	-16	W	5	c	41	75	8	6	2	-	7.8	10	1500	1	*
	Upper Heyford	1006.7	-24	W'S	5	c	41	75	7	5	2	-	7.8	9	1500	1	*
	Leafield	1007.0	-16	W'N	6	c	41	75	8	5	-	-	9	9	2500	1	*
4	Ross-on-Wye	1008.7	-10	W	5	q	44	65	8	6	-	-	10	10	2500	1	*
5	Portland Bill	1010.6	-6	WNW	7	bc	46	65	8	4	4	-	2.3	2.3	2500	1	4
	Plymouth	1015.1	-2	WNW	5	b	46	65	8	3	-	-	1	1	2500	1	3
	Falmouth	1017.4	0	W'N	5	bc	46	65	8	3	-	-	4.6	4.6	4000	0	2
	Scilly (St. Mary's)	1017.6	0	NW'W	7	bc	47	75	8	2	-	-	4.6	4.6	4000	0	4
	Guernsey	1016.5	0	NW	4	c	47	65	7	5	-	-	7.8	7.8	2500	1	4
6	Pembroke	1011.8	-4	W	5	q	46	75	7	3	6	-	4.6	4.6	1500	1	3
7	Holyhead	1005.9	-6	W'N	8	q	45	85	6	5	-	-	10	10	1500	1	5
	Chester (Sealand)	1004.0	-10	W	6	r.r.	43	85	7	6	-	-	10	10	1500	1	*
8	L'pool (Bidston)	1008.1	-8	W'S	8	rr	42	95	7	6	-	-	10	10	1500	1	*
9	Harrogate	996.5	-46	SSW	4	o	40	95	6	6	-	-	10	10	2500	1	*
10	Spurn Head	999.5	-16	W'S	4	c	40	95	7	3	3	-	4.6	7.8	2500	1	4
	Tynemouth	998.1	-16	S	1	o	38	95	5	6	-	-	10	10	1500	1	2
11	Inchkeith	1000.2	+2	N	3	m.	37	95	6	5	-	-	10	10	800	0	1
	Leuchars	1001.1	0	NE	1	r.r.	38	95	5	6	2	-	7.8	10	800	1	*
12	Renfrew	1002.4	+18	W	1	rr	36	95	6	6	6	-	10	10	1500	1	*
	Eskdalemuir	999.5	+10	NNE	2	c	36	95	6	-	1	-	0	9+	-	6	*
13A	Tiree	1002.8	+10	W'N	2	dd	41	95	5	5	-	-	10	10	800	1	2
13B	Stornoway	1001.9	+4	-	0	c	37	95	7	5	-	-	9+	9+	4000	1	0
15	Dalwhinnie	1002.3	+4	NNE	1	ps	32	95	3	5	-	-	10	10	<150	8	*
	Aberdeen	1002.2	+4	E	4	ir.	40	95	6	6	2	-	7.8	10	2500	1	2
	Wick	1003.5	+6	ESE	4	c	41	65	8	8	7	-	7.8	10	2500	0	3
16	Lerwick	1006.1	-6	-	0	bc	37	65	8	5	7	-	4.6	4.6	1500	0	*
17	Blacksod Point	1012.3	+4	WNW	4	c	46	75	7	3	-	-	7.8	7.8	450	0	4
18	Malin Head	1006.2	+22	NW	7	ir.	45	85	6	6	2	-	4.6	10	1500	1	4
	Aldergrove	1005.5	+18	W'N	5	ir.	41	85	6	5	-	-	10	10	800	1	*
	Donaghadee	1002.5	+26	NW	7	q	44	85	7	6	-	-	7.8	7.8	800	0	4
19	Birr Castle	1012.1	-2	WNW	4	bc	43	75	8	-	5	-	0	2.3	-	1	*
20	Valentia Obsy.†	1016.8	-10	WSW	4	c/pr	47	95	7	8	2	-	9	10	1500	1	3
	Roches Point	1015.8	0	W	3	bc	44	75	8	3	-	-	4.6	4.6	1500	0	3

PAST 24 HOURS.

District	Stations	Temperature Max. Day 7h-18h °F. (31)	Temperature Min. Night 18h-7h °F (32)	Temperature Min. on Grass °F. (33)	Rainfall Day 7h-18h mm. (34)	Rainfall Night 18h-7h mm. (35)	Sunshine 27th Hrs. (36)
1	London (Kew)	43	40	38	-	3	5.7
	Croydon	45	39	36	-	3	6.3
	S. Farnborough	46	39	35	0.1	2	5.5
	Winchester	42	39	37	0.6	3	2.4
	Boscombe Down	42	40	39	2	2	*
	Calshot, (S'thmtn)	44	42	37	1	3	2.4
	Dungeness	46	39	*	Tr.	2	*
	Lympne	45	34	28	-	4	6.4
2	Shoeburyness	45	31	23	-	3	5.5
	Felixstowe	44	35	29	-	3	7.5
	Gorleston	44	35	28	-	5	6.9
	Cranwell	45	33	31	-	3	6.9
3	Cardington	45	35	34	0.1	1	6.9
	Birmingham	42	37	36	0.3	2	4.6
	Upper Heyford	43	37	36	0.2	3	*
	Leafield	41	36	36	0.5	3	4.3
4	Ross-on-Wye	42	41	38	2	0.4	1.6
5	Portland Bill	52	40	*	1	1	*
	Plymouth	50	44	43	5	1	0.0
	Falmouth	51	46	*	4	1	0.0
	Scilly (St. Mary's)	50	46	*	2	Tr.	0.0
	Guernsey	47	46	38	6	2	0.0
6	Pembroke	49	45	*	5	0.6	0.0
7	Holyhead	44	44	42	2	0.3	0.0
	Chester (Sealand)	41	38	37	1	1	1.9
8	L'pool (Bidston)	41	37	36	2	2	3.6
9	Harrogate	45	34	33	-	3	5.7
10	Spurn Head	43	35	*	-	4	7.0
	Tynemouth	42	35	27	-	2	*
11	Inchkeith	43	33	32	-	3	5.3
	Leuchars	46	33	31	-	3	6.6
12	Renfrew	38	34	33	0.1	5	0.6
	Eskdalemuir	37	32	30	-	4	5.8
13A	Tiree	43	40	38	2	5.4	0.0
13B	Stornoway	43	37	*	-	1	0.4
15	Dalwhinnie	34	30	*	-	0.4	4.5
	Aberdeen	43	36	34	-	0.4	6.4
	Wick	40	38	*	-	-	*
16	Lerwick	37	33	*	-	-	0.4
17	Blacksod Point	50	42	*	7	7	*
18	Malin Head	44	43	*	3	5	0.0
	Aldergrove	44	40	39	1	0.5	0.0
	Donaghadee	44	42	*	2	1	*
19	Birr Castle	52	41	37	0.2	-	0.1
20	Valentia Obsy.†	53	45	42	2	1	0.1
	Roches Point	50	41	*	6	-	*

LONDON OBSERVATIONS.

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

	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	bf bz.	bz. bccm	omrc	43	40	38	-	3	5.7	*	*	6
Croydon	217	bcz.	bz. yc	corrbc	45	39	36	-	3	6.3	*	*	6
Greenwich (Royal Observatory)	149	bf	bc	cdrdbc	43	39	25	-	3	2.6	61	74	4
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0.7	*	*	*
Westminster (St. James' Park)	27	*	*	*	44	33	31	[illegible]		2.6	43	77	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	3.3	*	*	*
Camden Square	110	b	bc	*	41	40	33	-	5	*	*	80	*
Kensington Palace	80	b	bmco	*	43	41	35	-	3	*	At 18h. 73	74	*
Hampstead Observatory	450	bcm	or	*	43	37	31	1	4	5.7	*	81	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

South Kensington Max.	Time.	Min.	Time.
1.3	10h. 27th	<0.3	0h.-6h. 28th

Kew Observatory Max.	Time.	Min.	Time.
0.7	9h. 27th	<0.1	24h. 27th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 27th January Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 28th January 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	1022.7	SSW	1	bc	41	1011.4	WSW	3	c	45	45	39	-	2
Brussels	1020.6	WSW	2	bc	37	1007.0	SSW	3	ss	34	43	30	0.1	3
Berlin						1011.4	WSW	2	o	36		34		0.3
Zürich	1024.6	SW	1	c	32	1019.9	SW	1	bc	23	36	23	4	-
Rome	1011.7	N	4	c	43	1018.7	NE	2	b	32	57	32	-	-

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 29th January, 1931.

No. 25.270.

OBSERVATIONS at 13h. G.M.T. 28th January

District	Stations (For heights see p. 4.)	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force 0-12 (4)	Weather. (5)	Temp. °F. (6)	% Humid. (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Form. Med. (10)	Form. High (11)	Amount. Low 0-10 (12)	Amount. Total 0-10 (13)	Height of Base. (feet) (14)	Sun shine 27th Hrs. (36)
1	London (Kew)	1005.4	-1.6	W	5	c	45	65	6	5	-	-	9+	9+	2500	5.7
	Croydon	1006.8	-0.6	W	6	ir	44	65	6	5	2	-	9	10	1500	6.3
	S. Farnborough	1006.5	-1.0	W	5	c	47	65	8	5	-	-	9+	9+	4000	5.5
	Winchester	1007.9	-1.0	WNW	6	q	47	65	8	7	-	-	7-8	7-8	4000	2.4
	Boscombe Down	1008.6	-0.4	NW	6	q	48	65	7	1	3	1	7-8	9	2500	*
	Calshot, S'thmtn	1008.6	-1.4	WNW	6	c	48	65	7	7	4	-	7-8	7-8	2500	2.4
	Dungeness	*	*	W	5	c	*	*	7	5	-	×	4-6	9+	2500	*
	Lympne	1005.0	-1.4	W	6	ir	42	95	7	5	2	-	9	10	2500	6.4
2	Shoeburyness	1003.5	-1.4	W'N	6	o/r	43	75	6	5	-	-	10	10	1500	5.5
	Felixstowe	1001.7	-2.0	W'S	4	rr	43	75	7	6	-	-	7-8	10	1500	7.5
	Gorleston	999.3	-2.0	W	4	ir	42	95	6	6	-	-	10	10	1500	6.9
	Cranwell	1000.5	+6	WNW	5	r r	41	95	5	6	-	-	10	10	450	6.9
3	Cardington	1003.7	-0.6	W'N	6	ir	43	75	7	5	2	-	9+	10	800	6.9
	Birmingham	1005.3	+2	WNW	5	ir	40	95	6	6	-	-	10	10	1500	4.6
	Upper Heyford	1005.5	0	WNW	6	c	43	75	8	5	2	-	7-8	9+	1500	*
	Leafield	1005.9	0	WNW	7	ir	42	75	9	6	2	-	2-3	9+	1500	4.3
4	Ross-on-Wye	1007.2	+4	W	7	q	45	65	8	4	3	-	7-8	7-8	4000	1.6
5	Portland Bill	1009.9	-1.4	NW'W	7	c	48	65	8	8	-	-	7-8	7-8	2500	*
	Plymouth	1014.2	-1.0	WNW	5	c/pr	47	85	7	9	-	-	9	9	2500	0.0
	Falmouth	1017.0	-0.8	W'S	6	c	49	75	8	8	-	-	4-6	7-8	4000	0.0
	Scilly (St. Mary's)	1016.1	-1.8	W'N	7	pr	48	85	7	8	7	8	4-6	9	4000	0.0
	Guernsey	1015.0	-0.8	WNW	4	c	49	75	7	5	-	-	9	9	2500	0.0
6	Pembroke	1011.4	-0.4	W	5	q	46	85	7	8	2	-	4-6	10	1500	0.0
7	Holyhead	1007.7	+0.8	NW'W	8	q	46	75	7	5	3	9	4-6	9	5700	0.0
	Chester (Sealand)	1005.4	+0.6	W'N	7	id	44	85	6	6	-	-	10	10	1500	1.9
8	L'pool (Bidston)	1003.9	+1.0	WNW	7	q	43	85	6	6	-	-	10	10	1500	3.6
9	Harrogate	1001.1	+1.0	SW	3	c	40	85	6	6	-	-	10	10	2500	5.7
10	Spurn Head	997.9	-2	NW'N	4	id	42	95	6	6	2	-	4-6	10	4000	7.0
	Tynemouth	1000.1	+8	NNE	3	ir	42	95	6	6	-	-	10	10	1500	*
11	Inchkeith	1003.4	+6	N	3	d d	39	95	5	5	2	-	4-6	10	1500	5.3
	Leuchars	1003.6	+1.0	NNE	1	d d	39	95	6	6	-	-	10	10	220	6.6
12	Renfrew	1004.3	+1.0	W	1	r r	39	95	6	6	-	-	10	10	1500	0.6
	Eskdalemuir	1003.3	+1.4	N	3	rs	37	95	6	6	-	-	10	10	800	5.8
13A	Tiree	1003.7	+4	W'N	5	r r	44	95	7	6	2	-	7-8	10	800	0.0
13B	Stornoway	1002.3	-4	ESE	3	c	46	85	7	4	2	-	7-8	10	4000	0.4
15	Dalwhinnie	1003.8	+4	-	0	m	33	95	4	5	-	-	10	10	450	4.5
	Aberdeen	1003.7	+6	NE	3	c/pr(s)	39	85	8	8	4	-	7-8	7-8	2500	6.4
	Wick	1004.3	0	E	3	c	39	65	8	8	7	8	7-8	9+	2500	*
16	Lerwick	1004.6	-6	W'N	2	c	38	75	8	5	7	-	4-6	7-8	1500	0.4
17	Blacksod Point	1007.5	-2.4	W	4	c/pr	48	85	8	3	-	-	9+	9+	220	*
18	Malin Head	1005.6	0	WNW	5	bc	46	75	7	2	6	2	2-3	4-6	2500	0.0
	Aldergrove	1006.8	-2	W	4	c	47	65	8	7	4	-	4-6	7-8	4000	0.0
	Donaghadee	1005.5	+8	NW	6	q	47	65	7	5	2	-	4-6	4-6	2500	*
19	Birr Castle	1010.8	-1.4	SW	1	c	46	85	8	-	7	-	0	10	-	0.1
20	Valentia Obsy.	1012.2	-2.8	SW	3	o/pr	49	75	8	5	-	-	10	10	1500	0.1
	Roches Point	1013.3	-1.4	W	3	c	47	65	8	3	-	-	7-8	7-8	1500	*

OBSERVATIONS at 18h. G.M.T. 28th January

District	Stations	Barom. at M.S.L. mb. (15)	Change in 3 hours. (16)	Wind. Direc. (17)	Wind. Force 0-12 (18)	Weather. (19)	Temp. °F. (20)	% Humid. (21)	Visibility 0-9 (22)	Cloud. Form. Low. (23)	Form. Med. (24)	Form. High. (25)	Amount. Low. 0-10 (26)	Amount. Total 0-10 (27)	Height of Base (feet) (28)	State of Ground. 0-9 (29)	Sea. 0-9 (30)
1	London (Kew)	1005.7	+6	W'N	4	c	45	65	6	5	-	-	9	9	2500	1	*
	Croydon	1006.3	+2	WNW	5	c/r	44	65	6	5	2	-	7-8	9+	1500	1	*
	S. Farnborough	1006.6	+2	WNW	3	b	43	61	8	-	9	1	0	Tr.	-	1	*
	Winchester	1008.0	+4	W	4	bc	42	85	8	1	4	9	1	4-6	4000	1	*
	Boscombe Down	1008.4	+2	WNW	5	bc	43	85	7	5	-	1	4-6	4-6	2500	1	*
	Calshot, S'thmtn	1008.3	0	WNW	5	c	45	75	7	7	7	4	2-3	7-8	2500	0	2
	Dungeness	*	*	W	5	pr	*	*	7	3	-	*	9+	9+	1500	*	3
	Lympne	1004.4	0	WNW	5	c/r	43	75	7	5	2	-	9	10	2500	1	*
2	Shoeburyness	1003.5	+6	WNW	5	q	44	75	7	5	-	-	10	10	1500	1	*
	Felixstowe	1002.0	+6	WNW	4	r r	43	85	7	6	-	-	10	10	800	3	3
	Gorleston	999.9	+8	NW	4	ir	41	95	6	6	-	-	10	10	1500	1	3
	Cranwell	1002.8	+1.4	NW	5	r r	40	95	6	6	-	-	10	10	800	1	*
3	Cardington	1004.2	+1.0	WNW	5	o	44	75	7	5	-	-	10	10	800	1	*
	Birmingham	1006.3	+2	WNW	4	b	41	75	8	-	4	-	0	1	-	1	*
	Upper Heyford	1006.3	+1.0	WNW	5	bc	41	75	8	-	4	-	4-6	4-6	-	1	*
	Leafield	1006.7	+6	NW'W	4	b	39	75	8	-	4	-	0	1	-	1	*
4	Ross-on-Wye	1007.7	0	WNW	3	c	44	75	8	5	7	-	7-8	7-8	4000	1	*
5	Portland Bill	1009.3	-8	W	5	bc	47	85	7	4	7	-	4-6	4-6	2500	1	4
	Plymouth	1011.4	-1.6	W	4	c	47	85	7	9	3	-	7-8	9	2500	1	3
	Falmouth	1012.7	-1.0	WSW	5	pr	46	95	7	8	-	-	4-6	7-8	4000	1	2
	Scilly (St. Mary's)	1012.4	-2.0	W'S	6	r r	48	95	6	6	-	-	10	10	2500	1	4
	Guernsey	1012.9	-1.2	WNW	4	c/pr	48	85	6	5	-	-	7-8	7-8	2500	0	3
6	Pembroke	1008.0	-1.6	W	5	q	47	85	7	8	3	9	4-6	4-6	1500	1	3
7	Holyhead	1006.4	-1.4	WSW	3	ir	44	95	6	6	3	-	7-8	9+	1500	1	4
	Chester (Sealand)	1006.0	-2	W	4	b	42	75	7	5	3	-	1	1	2500	1	*
8	L'pool (Bidston)	1004.7	0	W'S	5	bc	42	85	8	5	-	-	4-6	4-6	2500	0	*
9	Harrogate	1003.1	+6	WSW	1	r r	38	95	6	6	-	-	10	10	2500	1	*
10	Spurn Head	1000.2	+2	NW'N	5	rr	40	95	6	6	-	-	10	10	1500	1	4
	Tynemouth	1003.5	+10	NNE	2	o	42	85	8	6	-	-	10	10	1500	1	2
11	Inchkeith	1002.8	-6	E	2	rr	38	95	7	6	-	-	10	10	1500	1	2
	Leuchars	1003.3	-2	NNE	1	r r	37	95	6	6	1	-	7-8	10	450	1	*
12	Renfrew	1003.1	-6	-	0	ir	38	95	6	6	2	-	7-8	10	1500	1	*
	Eskdalemuir	1003.0	-4	-	0	rs	35	95	6	6	-	-	10	10	450	1	*
13A	Tiree	1001.4	-1.2	W	3	bc	43	75	8	5	3	-	2-3	4-6	2500	0	3
13B	Stornoway	1000.2	-1.0	SE	2	r r	40	95	6	6	-	-	10	10	4000	2	1
15	Dalwhinnie	1002.4	-1.0	S	3	d	34	85	5	5	-	-	10	10	800	3	*
	Aberdeen	1003.4	-8	NE	2	c	37	85	7	5	-	-	9	9	1500	1	2
	Wick	1003.4	-6	E	3	bc	38	65	8	5	4	-	2-3	4-6	2500	0	3
16	Lerwick	1002.7	-1.2	NE	2	c/r	40	85	8	5	1	-	4-6	7-8	1500	1	*
17	Blacksod Point	1004.6	-8	W	5	c	46	85	7	3	-	-	7-8	7-8	800	0	4
18	Malin Head	1001.9	-2.4	SSE	2	ir	43	95	6	6	2	-	4-6	9+	1500	0	2
	Aldergrove	1003.9	-2.2	S'E	1	r r	41	95	6	6	2	-	7-8	10	1500	1	*
	Donaghadee	1003.8	-8	WNW	2	c	42	85	7	5	-	-	7-8	7-8	1500	0	1
19	Birr Castle	1006.5	-2.0	SW	2	ir	45	85	7	6	-	-	9+	9+	2500	1	*
20	Valentia Obsy.	1010.2	-4	W	4	bc	48	75	8	8	-	-	2-3	2-3	2500	1	4
	Roches Point	1008.8	-2.0	NW	4	bc	46	85	8	3	-	-	4-6	4-6	1500	1	3

PAST 24 HOURS.

District	Stations	Weather. 7h.–13h. 28th (37)	13h.–18h. 28th (38)	18h. 28th to 1h. 29th (39)	1h.–7h. 29th (40)
1	London (Kew)	c z	c q ir c z	b z b c z	b c r b m
	Croydon	c z r	c m r	c m b c c	c r r b b c m
	S. Farnborough	c b c c	c b	b c p r s	c b
	Winchester	b c c q	c q b c	b c c p r b c	b c c p r b c
	Boscombe Down	b c c q	b c q b c	d c c p r	p r b c
	Calshot, S'thmtn	b c c q	c b c q	b c c o d c d	o d o d r
	Dungeness	o	o	*	b c
	Lympne	b c c r	c r	c b b c m o	c o r r d o d
2	Shoeburyness	c o i r m q	o m i r q	c q c i r	c i r o i r
	Felixstowe	b c c r c r r	c r r c r c b	o r r	o r r m
	Gorleston	o r c o q	o i r q	o r r q o	o i r
	Cranwell	o r o r r	o i r c r r c	c r o r r c m	c m o r r m
3	Cardington	c r c	r c q	c	c o r r c
	Birmingham	c i r	c r r b c	b c c p r o r	o r b c
	Upper Heyford	c i r q	c p r c b c q	b c q b b c	c o r R b c
	Leafield	c i r q	c i r b	b c c r	R c b
4	Ross-on-Wye	c b c q c q	c q c	c b c c r	c
5	Portland Bill	b c p r c	c	c p r c	c b c
	Plymouth	b q c p r q	c p r	c R b c	c p r b
	Falmouth	b c p o q	c P q	c P b c q	b c P q
	Scilly (St. Mary's)	b c c q p	c p o	o r b c c	c q p b c
	Guernsey	p o b c c	c b c p o	c p r b c	b c c p r
6	Pembroke	b c p c q	c b c q	c r r q	b b c q
7	Holyhead	c m c q	b c c	r o r c	b c c
	Chester (Sealand)	D D, o, o	d m b c	b c i r	b c c
8	L'pool (Bidston)	r r q d	o q c b c	b c o r r	o r q c b
9	Harrogate	o c i r	c i r	c r o r	c o i r
10	Spurn Head	c p d	c o d m r	o r c d	c p d o r
	Tynemouth	o f f i r	o i r	o r o r	o m
11	Inchkeith	d d m m	o m r r	o r r r o r	o m o m
	Leuchars	o r c d d m	o d c c r m	c o m r r m	o r r r o m
12	Renfrew	o r r o m	o r r o m	r o c m	c r o r o
	Eskdalemuir	c i r s	o r s r s	o r s d d F	o d d F o s s
13A	Tiree	o d m c r r	c i bc	b c	c r o r
13B	Stornoway	c	o r r o	o u r r	c b c
15	Dalwhinnie	p d o m	p d o m	o p s m	o d d m
	Aberdeen	c r p r h	b c	c	c
	Wick	c p r c	c b c	b c	b c c
16	Lerwick	c p o r r i r	c p r	b c c p r	
17	Blacksod Point	p r c	p r q c	p r q c	p r q c
18	Malin Head	c r b c	b c c m	c r r c r c	c i r
	Aldergrove	o r c b c	b c r r r m	c r r	c r r i r c
	Donaghadee	c b c q	b c c	c i r	c
19	Birr Castle	b c c	c i r	c	c b c o r
20	Valentia Obsy.	c p o c	c i r b p b c	b c c p h q l p	c p o q b b c
	Roches Point	b c c	c i r 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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,

R, heavy rain. r_o, slight rain. rr, continuous rain.

< . less than (for cloud height).

⊕, solar halo. ◐, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

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

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

COLUMN 29.—STATE OF GROUND.

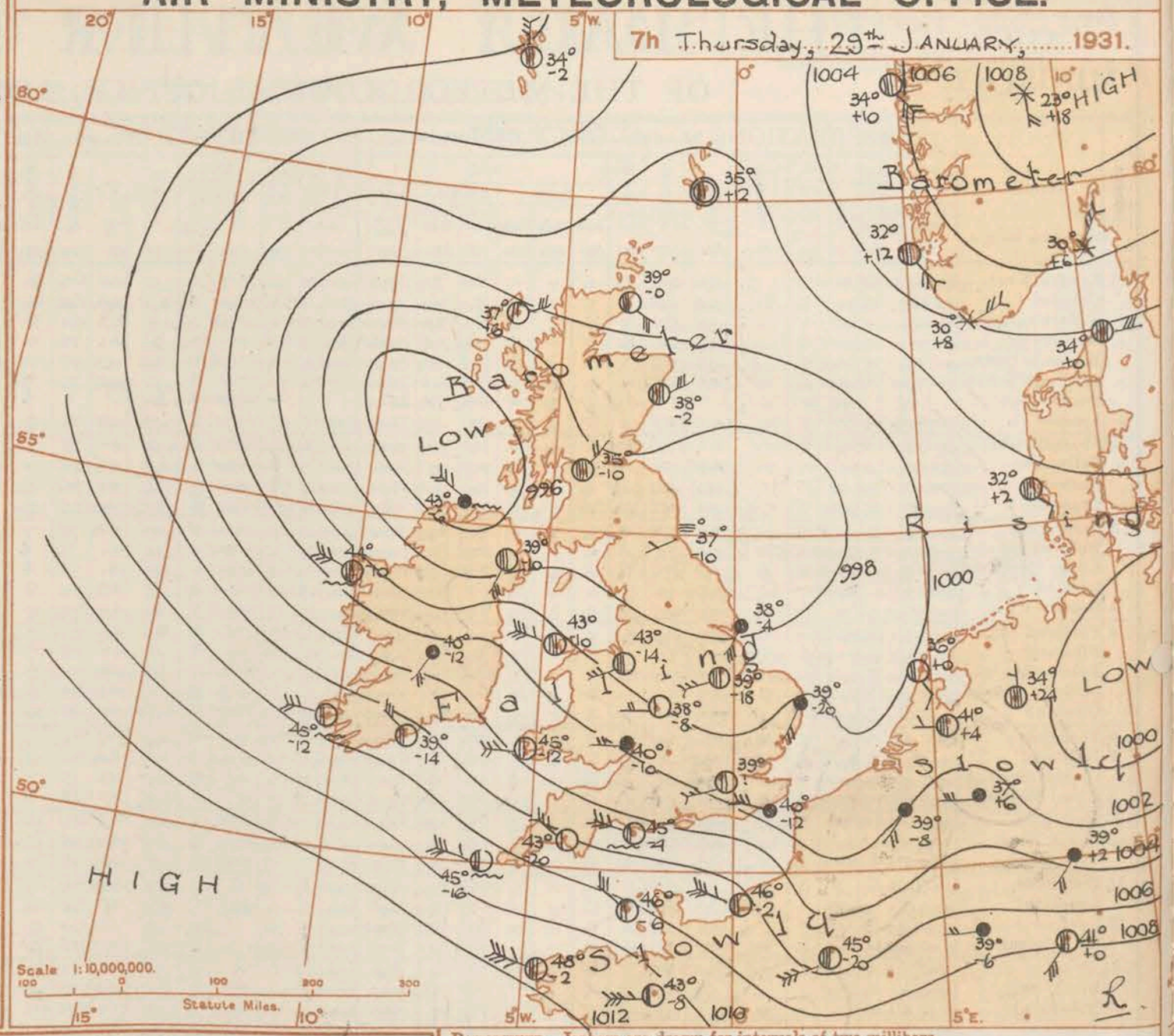
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 28th JANUARY 1931.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 9h. 27th to 9h. 28th	Temperature. Max. 9h.—17h. 28th	Rainfall. Night. 17h. 27th to 9h. 28th	Rainfall. Day. 9h.—17h. 28th	Sunshine. Sunrise to Sunset 28th
1	Tunbridge W.	o	oro	33	45	3	1	0.0
	Bournemouth	cbb	bco	31	48	4	-	2.8
	Ventnor ...	rtb	bbccu	41	49	6	-	4.9
	Southsea ...	bbc	bbc	37	49	4	-	4.5
	Bognor Regis	bc	bc	34	48	6	-	3.4
	Littlehampton	bc	bc	32	49	5	-	2.0
	Worthing ...	co	cbc	35	49	5	-	1.3
	Brighton ...	coc	cbc	35	48	4	-	0.2
	Eastbourne†	co	oc	42	46	5	-	0.1
	Hastings† ...	coc	cod	40	46	3	0.3	0.0
	Folkestone ...	rbccо	ogr	37	45	5	0.3	0.8
	Dover... ...	bero	or	37	46	7	1	0.7
	Deal	bcor	or	33	44	3	1	0.4
	Ramsgate ...	cid	ido	36	44	3	1	0.3
	Margate ...	bccd	cr	36	44	4	1	0.0
2	Southend ...	cor	or	34	44	3	0.2	0.1
	Maldon ...	c	cqir	30	45	5	0.3	0.5
	Clacton-on-Sea	bccpd	cpdc	32	44	4	Tr.	0.9
	Dovercourt ...	rber	roc	34	44	3	2	0.7
	Lowestoft ...	copr	opr	32	41	4	1	0.3
	Skegness ...	rom	odmo	32	43	3	0.2	0.0
	Mablethorpe	orm	orm	32	43	2	1	0.0
	Cleethorpes ...	ro	ro	31	44	3	1	0.0
3	Leamington S.	c	c(p)	36	45	3	Tr.	0.0
4	Cheltenham†	cop	cbc	39	45	1	Tr.	0.0
5	Bath	bcb	bbcc	30	49	1	-	6.5
	Weymouth ...	cbbc	c	38	50	2	-	2.1
	Jersey ...	rcbc	rcbc	44	49	3	2	2.1
	Torquay ...	dpr	qbc	41	51	1	-	3.9
	Penzance ...	cb	bcir	46	51	3	1	1.2
	St. Ives ...	c	p	45	49	2	Tr.	0.7
	Bude	cbc	bcc	42	48	2	-	0.6
	Ilfracombe ...	co	oc	43	48	3	-	0.1
6	Aberystwyth	cimrc	c	38	45	1	-	1.4
7	Llandudno ...	roc	cbc	35	46	1	0.3	0.2
	Colwyn Bay...	rro	obcb	36	46	4	1	0.6
	Rhyl	ormc	cbcb	37	44	3	1	0.0
8	Wallasey ...	iro	opbcb	35	44	6	2	0.0
	Southport‖ ...	or	rroco	38	44	3	3	0.0
	Blackpool ...	oro	orc	35	44	3	1	0.0
	Morecambe ...	rcdc	dcdc	42	44	7	1	0.0
9	Ilkley... ...	o	oror	29	43	8	2	0.0
10	Berwick-on-T.	or	o	31	41	2	1	0.0
11	Dunbar ...	ormo	ormo	33	41	4	1	0.0
12	Douglas ...	oqRo	cbbc	38	46	7	3	1.6

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



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

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 29th Jan. 1931.
1. S.E. England▼ 2. E. England..▼ 3. E. Midlands	Fresh or strong westerly winds, stronger at times; rain at times and showers but brighter intervals; rather low temperature.
4. W. Midlands 5. S.W. England▼ 6. South Wales▼	Fresh or strong westerly to northwesterly winds, reaching gale force locally in exposed places: squally showers and rain at times but brighter intervals; rather cold.
7. North Wales 8. N.W. England 9. N. Midlands	Fresh or strong westerly to northwesterly winds, stronger perhaps at times; rain at times and showers with sleet locally on high ground but bright intervals; rather cold.
10. N.E. England 11. S.E. Scotland	Moderate or fresh variable to easterly winds: rain at times: rather cold.
12. S.W. Scotland & Isle of Man 13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland	Winds becoming fresh to strong between northeast and northwest; squally showers with hail or sleet locally but also bright intervals: rather cold.
15. N.E. Scotland 16. Orkneys and Shetlands.	Moderate or fresh easterly to northeasterly winds: rain at times with sleet locally; rather cold.
17. N.W. Ireland▼ 18. N.E. Ireland 19. S.E. Ireland▼ 20. S.W. Ireland▼	Strong westerly to northwesterly winds, reaching gale force locally; squally showers but bright intervals; rather cold.

GENERAL INFERENCE.

A complex depression over the British Isles will move east-south-east and cause unsettled conditions generally with rain at times or showers but also brighter intervals in most districts.

FURTHER OUTLOOK.

Unsettled.

Times of Issue of Gale Warnings.

▼ South Cone at 1430 on 26th in 17 and 20; at 1430 on 28th in 1 and 2: and at 1900 on 28th in 5, 6 and 19.

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 Pk. 2438/2174. Nº 26. D.E026. 6p. 4/30. 1/31.

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

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

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

⊙ = Calm.

TEMPERATURE is given in degrees F.

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

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Thursday, 29th January 1931.

No. 25,270.

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

District	Stations	Height above M.S.L. in feet	Barom. at M.S.L. mb. (1)	Change in 3 hours. (2)	Wind. Direc. (3)	Wind. Force. 0-12 (4)	Weather. (5)	Temp. °F. (6)	Humid. % (7)	Visibility 0-9 (8)	Cloud. Form. Low. (9)	Cloud. Form. Med. (10)	Cloud. Form. High (11)	Cloud. Amount. Low 0-10 (12)	Cloud. Amount. Total 0-10 (13)	Height of Base. (feet) (14)
1	London (Kew)	18	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Croydon	217	1005·0	-14	SW'N	4	c	43	85	7	5	-	-	9+	9+	4000
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1004·7	-26	W'S	3	do do	44	95	7	5	-	-	10	10	1500
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1005·0	0	W'S	4	c	38	95	6	5	-	-	9+	9+	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	1002·0	+6	WNW	1	o	40	95	6	6	-	-	10	10	1500
	Cranwell	240	1002·2	-10	W	2	c	37	95	5	-	1	6	0	9+	-
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1004·8	-16	W'N	6	c	47	75	8	4	7	-	7-8	10	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	1010·8	0	W'S	5	bc	46	85	7	5	3	-	4-6	4-6	4000
	Scilly (St. Mary's)	163	1010·1	-4	WNW	7	bc	47	85	7	8	-	-	4-6	4-6	4000
	Guernsey	175	1009·3	-20	WNW	4	bc	48	75	6	8	-	-	4-6	4-6	2500
6	Pembroke	142	1005·5	0	W	5	q	45	85	7	1	4	-	1	2-3	2500
7	Holyhead	26	1002·8	-4	W'N	6	bc	44	95	7	5	3	9	2-3	4-6	4000
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1000·8	-2	W'S	1	c/d	39	95	6	6	3	-	4-6	10	2500
	Tynemouth	67	1001·6	-8	W	1	o	38	95	6	6	-	-	10	10	1500
11	Inchkeith	190	999·9	-10	E	2	ro ro	35	95	7	5	-	-	10	10	800
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	998·2	-8	ESE	3	c	38	85	7	9	7	-	4-6	7-8	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1001·3	-6	SSE	3	bc	38	65	8	8	6	-	4-6	4-6	4000
16	Lerwick	54	1001·1	-6	ENE	1	c/pr	39	85	8	8	-	-	7-8	7-8	1500
17	Blacksod Point	18	1003·2	-4	W	6	c	44	85	7	3	-	-	7-8	7-8	800
18	Malin Head	52	997·4	0	NW	4	c	45	75	7	5	-	6	2-3	9	2500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1010·0	0	WNW	7	c/ph(r)	44	75	7	3	-	-	7-8	7-8	4000
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)	1001·6	-6	WSW	2	bc	39	85	5	5	-	-	2-3	2-3	2500	1	*
Croydon	1003·1	+2	WSW	4	bc	39	85	6	5	3	-	2-3	2-3	2500	1	*
S. Farnborough	1002·3	-6	W	3	b	38	95	7	-	-	-	0	0	-	1	*
Winchester	1002·9	-10	WSW	2	bc	38	95	8	5	-	-	4-6	4-6	4000	1	*
Boscombe Down	1003·3	-4	WNW	4	bc	40	85	7	5	-	-	4-6	4-6	2500	1	*
Calshot, (S'thmtn)	1003·6	-6	WSW	3	bc	40	85	7	5	-	-	4-6	4-6	1500	1	1
Dungeness	*	*	W	2	c	*	*	7	8	-	*	7-8	7-8	2500	*	2
Lympne	1001·1	-12	WNW	4	do do	40	95	6	6	-	-	10	10	800	1	*
Shoeburyness	1000·9	-20	WNW	3	rr	41	95	8	6	-	-	10	10	800	1	*
Felixstowe	1000·7	-10	WNW	1	DD	40	95	6	6	-	-	10	10	800	1	1
Gorleston	1000·2	-20	SSW	2	ro ro	39	95	6	6	-	-	10	10	800	1	1
Cranwell	998·3	-18	W'S	4	c	39	95	6	5	-	-	9	9	2500	1	*
Cardington	1000·8	-10	WSW	3	bc	38	85	7	5	3	-	2-3	2-3	5700	1	*
Birmingham	1000·7	-8	W	2	bc	38	85	8	-	3	-	0	1	-	1	*
Upper Heyford	1001·5	-12	W'S	2	bc	35	95	7	5	2	-	2-3	2-3	2500	1	*
Leafield	1001·0	-14	W'S	4	b	36	85	8	5	-	-	1	1	2500	1	*
Ross-on-Wye	1002·0	-10	W	2	pr	40	85	8	6	-	-	9+	9+	2500	1	*
Portland Bill	1004·2	-4	W'N	6	bc	45	75	8	4	4	-	4-6	4-6	2500	1	4
Plymouth	1006·3	-20	NW	4	b/pr	43	75	7	3	-	-	1	1	2500	1	2
Falmouth	1008·0	-6	W	5	PR	43	75	7	3	-	-	4-6	4-6	4000	1	2
Scilly (St. Mary's)	1008·7	-16	WNW	7	bc	45	85	8	8	-	-	4-6	4-6	4000	1	4
Guernsey	1007·8	-6	NW	3	bc	46	65	7	5	-	-	4-6	4-6	2500	1	3
Pembroke	1003·4	-12	W	5	q	45	75	7	1	7	-	2-3	4-6	2500	1	3
Holyhead	1000·3	-10	W'N	7	c	43	85	7	5	-	-	9+	9+	2500	1	4
Chester (Sealand)	999·4	-14	W'S	3	c	43	75	8	5	-	-	9	9	2500	1	*
L'pool (Bidston)	997·5	-16	W'S	5	pr	41	95	8	9	-	-	7-8	7-8	2500	1	*
Harrogate	997·4	-6	SSW	1	o	37	95	5	6	-	-	10	10	2500	1	*
Spurn Head	997·6	-4	SSW	3	rr	38	95	6	6	-	-	10	10	2500	1	3
Tynemouth	996·9	-10	WSW	1	m	37	95	4	5	-	-	10	10	1500	1	1
Inchkeith	997·3	-12	E	1	o	36	95	6	5	-	-	10	10	800	0	0
Leuchars	998·3	-6	ESE	2	ro ro	37	95	6	6	-	-	10	10	450	2	*
Renfrew	997·9	-10	NE	2	o/r	35	95	6	5	-	-	10	10	1500	2	*
Eskdalemuir	996·7	-10	-	0	S·S	32	95	5	6	-	-	10	10	800	7	*
Tiree	996·3	-2	SSE	3	c	40	95	6	5	2	-	9+	10	1500	1	2
Stornoway	999·0	+6	ENE	3	bc	37	85	7	4	-	-	2-3	2-3	4000	1	2
Dalwhinnie	998·2	-2	NNE	2	d	32	85	6	5	-	-	10	10	800	8	*
Aberdeen	999·4	-2	ENE	3	c	38	75	8	5	-	-	10	10	2500	1	2
Wick	1000·2	0	ESE	3	c	39	65	8	8	2	-	4-6	7-8	2500	0	3
Lerwick	1000·3	+12	-	0	c	35	95	8	8	-	-	7-8	7-8	1500	1	*
Blacksod Point	1001·0	-10	WNW	6	c	44	85	7	3	-	-	9+	9+	<150	1	5
Malin Head	995·2	-6	NW'N	5	ir	43	95	7	6	2	-	10	10	1500	1	4
Aldergrove	997·2	-10	SW'S	3	c	39	95	7	6	1	-	7-8	9	1500	1	*
Donaghadee	996·3	-10	W	2	c	41	85	7	5	-	-	9	9	800	1	1
Birr Castle	1002·4	-12	SW	2	ro ro	40	85	7	5	-	-	10	10	2500	1	*
Valentia Obsy.†	1007·6	-12	W'N	5	bc	45	65	8	3	-	-	2-3	2-3	2500	1	4
Roches Point	1006·5	-14	NW	3	bc	39	85	8	3	-	-	2-3	2-3	1500	0	3

PAST 24 HOURS.

Stations	Temperature. Max. Day 7h-18h °F. (31)	Temperature. Min. Night 18h-7h °F (32)	Temperature. Min. on Grass °F. (33)	Rainfall. Day 7h-18h mm. (34)	Rainfall. Night 18h-7h mm. (35)	Sunshine 28th Hrs. (36)
London (Kew)	46	37	27	Tr.	0·4	0·0
Croydon	45	39	31	Tr.	1	0·1
S. Farnborough	47	38	32	-	0·1	0·4
Winchester	48	38	34	-	1	4·7
Boscombe Down	47	39	37	-	1	*
Calshot, (S'thmtn)	48	39	34	-	2	4·8
Dungeness	45	39	*	Tr.	4	*
Lympne	43	35	32	0.4	3	0·8
Shoeburyness	45	37	34	0.4	2	0·3
Felixstowe	43	38	36	1	2	0·3
Gorleston	43	38	37	0.4	1	0·0
Cranwell	42	37	34	3	6	0·0
Cardington	44	36	33	0.1	3	0·0
Birmingham	42	38	34	1	3	0·0
Upper Heyford	44	35	30	Tr.	3	*
Leafield	43	36	31	Tr.	4	0·0
Ross-on-Wye	46	40	33	-	1	2·2
Portland Bill	49	43	*	Tr.	Tr.	*
Plymouth	50	41	39	0.5	2	1·6
Falmouth	51	43	*	1	4	1·9
Scilly (St. Mary's)	49	42	*	0.2	1	1·2
Guernsey	50	44	38	Tr.	2	1·8
Pembroke	48	44	*	Tr.	2	0·0
Holyhead	47	43	39	Tr.	3	1·0
Chester (Sealand)	45	41	38	3	1	0·0
L'pool (Bidston)	44	40	38	1	5	0·0
Harrogate	42	36	34	2	3	0·0
Spurn Head	42	38	*	2	2	0·0
Tynemouth	42	37	34	1	5	*
Inchkeith	39	35	34	4	3	0·0
Leuchars	39	35	34	3	10	0·0
Renfrew	39	34	33	4	1	0·0
Eskdalemuir	38	32	32	4	5	0·0
Tiree	45	35	24	2	0·5	0·3
Stornoway	42	37	*	1	1	0·0
Dalwhinnie	34	31	*	2	1	0·0
Aberdeen	41	34	31	Tr.	-	1·0
Wick	41	34	*	0.3	-	*
Lerwick	40	35	*	1	1	0·3
Blacksod Point	49	41	*	3	5	*
Malin Head	46	42	*	0.3	4	1·9
Aldergrove	47	38	36	0.6	4	2·5
Donaghadee	47	40	*	-	3	*
Birr Castle	49	39	32	1	0·4	0·5
Valentia Obsy.†	50	42	39	2	1	0·8
Roches Point	50	39	*	3	-	*

LONDON OBSERVATIONS.

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

	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	cz o	c q ir o cz o	bz o r o bm	46	37	27	Tr.	0·4	0·0	*	*	6
CROYDON	217	cz o r o	c m o r o	c m b c z m	45	39	31	Tr.	1	0·1	*	*	6
GREENWICH (Royal Observatory)	149	c	c i d o c	c b w c r b	45	38	29	Tr.	1	0·0	66	89	4
CITY (Bunhill Row)	—	*	*	*	*	*	*	*	*	*	*	*	*
WESTMINSTER (St. James' Park)	27	*	*	*	46	38	30	*	1	0·0	66	89	*
REGENTS PK. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	0·0	*	*	*
CAMDEN SQUARE	110	c	c	*	45	38	33	-	2	*	*	92	*
KENSINGTON PALACE	80	c o	c o	*	46	38	31	-	1	*	At 18h. 84	89	*
HAMPSTEAD OBSERVATORY	450	c o p	b c b c o r	*	43	34	29	Tr.	2	0·0	*	94	*

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

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

SOUTH KENSINGTON. Max.	Time.	Min.	Time.
0·8	21h 28th	<0·3	2-5h 29th

KEW OBSERVATORY. Max.	Time.	Min.	Time.
0·2	21h 28th	<0·1	3h 29th

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 28th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 29th January. 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	1009·8	W	5	c	45	1005·9	WSW	7	c	45	48	43	Tr	0·1
BRUSSELS	1002·3	W'S	4	r o r o	39	1002·0	SW	2	i d o	39	43	37	4	4
BERLIN						996·4	-	0	o/s	34		32		10
ZÜRICH	1015·4	W	4	S S	36	1012·2	W	5	r r	37	36	34	4	9
ROME	1017·7	SSW	2	c	41	1013·5	SSW	1	bc	37	54	34	-	Tr.

EXPLANATION OF FIGURES, LETTERS, etc.

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

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

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

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

COLUMNS 8, 22.—Code for surface visibility.

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

COLUMN 30.—Code for State of Sea.

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

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

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

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

Page 1.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Friday, 30th January 1931.

No. 25,271.

OBSERVATIONS at 13h. G.M.T. 29th January.

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)	1001.1	-6	W	3	c	43	75	6	5	3	-	9	9+	2500
	Croydon	1002.4	-6	W	4	roro	43	85	6	5	2	-	9	10	1500
	S. Farnborough	1001.5	-6	W	3	pro	44	75	7	9	-	-	9+	9+	1500
	Winchester	1001.9	-10	W'N	5	c	45	65	8	7	1	-	7-8	7-8	2500
	Boscombe Down	1002.5	-6	WNW	4	cjp	44	75	7	5	-	-	9+	9+	2500
	Calshot, S'thmtn	1002.8	-10	W'N	5	c	46	65	7	2	-	4	Tr.	7-8	2500
	Dungeness	*	*	SW	4	c	*	*	7	4	-	*	9+	9+	4000
	Lympne	1001.2	-6	W	4	c	43	75	7	8	-	-	9	9	2500
2	Shoeburyness	1000.7	-2	W'N	4	bc	43	75	6	4	3	-	4-6	4-6	4000
	Felixstowe	1000.2	-2	W'N	3	bc	44	75	8	1	3	-	4-6	4-6	2500
	Gorleston	998.7	-6	WNW	3	c	41	95	6	6	3	-	2-3	7-8	2500
	Cranwell	997.7	-4	WSW	4	iro	42	95	6	6	1	-	8	10	1500
3	Cardington	1000.2	-6	W	3	c/pr	43	75	7	5	-	-	9	9	1500
	Birmingham	999.8	-4	W	3	c/pr	43	75	8	6	-	-	9	9	2500
	Upper Heyford	1000.4	-6	W'S	4	c/r	44	75	8	5	-	-	9+	9+	2500
	Leafield	1000.0	-6	W	4	c	42	75	8	7	8	3	4-6	7-8	4000
4	Ross-on-Wye	1000.7	-10	W'S	3	pro	43	75	8	8	-	9	9	9+	4000
5	Portland Bill	1003.0	-8	W'N	6	bc	47	75	8	4	7	-	4-6	4-6	2500
	Plymouth	1005.1	-16	W'N	4	bc	47	65	8	3	3	3	2-3	4-6	2500
	Falmouth	1007.2	-4	W'N	5	PH(R)	47	95	8	3	-	-	4-6	4-6	4000
	Scilly (St. Mary's)	1006.8	-10	WNW	7	pr	46	75	7	2	-	-	7-8	7-8	4000
	Guernsey	1006.9	-8	W	4	bc/pr	45	65	7	8	-	-	4-6	4-6	2500
6	Pembroke	1001.6	-8	W	5	q	45	85	7	9	1	-	4-6	7-8	2500
7	Holyhead	999.2	-8	W'N	6	c	44	85	8	5	-	9	9+	9+	1500
	Chester (Sealand)	998.8	-2	W'S	3	c	43	75	7	5	-	-	9+	9+	1500
8	L'pool (Bidston)	997.1	0	W'S	5	pr	42	85	7	9	-	-	9+	9+	1500
9	Harrogate	997.0	0	SW	1	roro	39	95	6	6	2	-	9	10	2500
10	Spurn Head	996.4	0	W	2	c	40	95	6	5	3	-	4-6	10	2500
	Tynemouth	997.9	0	NNW	1	o	39	95	6	6	-	-	10	10	1500
11	Inchkeith	999.1	+12	ENE	4	rr	37	95	8	6	-	-	10	10	1500
	Leuchars	1000.0	+8	NE	3	roro	37	95	7	6	-	-	10	10	450
12	Renfrew	1000.0	+18	ENE	2	iro	38	85	6	5	2	-	9	10	1500
	Eskdalemuir	997.6	+4	NE	3	c	35	95	6	5	1	-	9	10	800
13A	Tiree	1001.0	+30	NE'E	4	c/ro	39	35	9	6	7	-	9	9+	1500
13B	Stornoway	1003.4	+16	ENE	2	bc	40	75	9	1	2	-	2-3	2-3	4000
15	Dalwhinnie	1001.3	+14	NNE	2	c	30	85	8	5	-	-	7-8	7-8	2500
	Aberdeen	1001.9	+10	E	3	c	40	65	8	8	-	-	7-8	7-8	2500
	Wick	1003.1	+10	WSW	2	bc	36	95	8	3	6	8	4-6	4-6	2500
16	Lerwick	1003.7	+20	E'S	1	bc	38	95	8	8	6	-	4-6	4-6	1500
17	Blacksod Point	1002.8	+20	NW	6	c	44	85	8	3	-	-	9	9	<150
18	Malin Head	998.7	+12	W	2	ir	42	95	5	6	2	-	9	10	800
	Aldergrove	998.7	+18	NNE	2	c	41	85	7	5	7	-	7-8	9	1500
	Donaghadee	997.9	+12	NNW	3	c	42	85	7	5	-	-	9	9	1500
19	Birr Castle	1001.5	-8	SW	1	bc	43	85	8	8	-	-	4-6	4-6	2500
20	Valentia Obsy.	1001.4	-46	W	5	pr	46	85	7	6	-	-	9	9	1500
	Roches Point	1003.4	-14	W	2	bc	44	85	8	3	-	-	4-6	4-6	1500

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

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)	1001.0	+6	WSW	3	c	41	85	6	5	3	-	2-3	9+	4000	1	*
Croydon	1001.9	0	WSW	3	c	40	95	5	9	1	-	7-8	9+	800	1	*
S. Farnborough	1001.2	+2	W	3	c	40	85	7	5	-	-	9+	9+	1500	1	*
Winchester	1001.5	+2	W	3	c/r	39	95	7	5	3	-	7-8	9	2500	1	*
Boscombe Down	1001.8	-2	W	3	c	38	95	7	6	-	-	9+	9+	800	1	*
Calshot, S'thmtn	1002.1	-6	WSW	4	bc	39	85	7	8	-	-	2-3	2-3	4000	1	1
Dungeness	*	*	SW	4	c	*	*	7	5	-	*	7-8	7-8	2500	*	2
Lympne	1001.4	+4	WSW	3	zo	38	95	6	2	1	-	2-3	4-6	2500	1	*
Shoeburyness	1000.3	0	WNW	1	iro	41 (42)	85	5	5	-	-	9+	9+	1500	1	*
Felixstowe	1000.2	+2	SW	1	c	41	85	6	5	-	-	9+	9+	1500	1	1
Gorleston	999.0	+2	SW'W	2	c	42	85	6	5	-	-	10	10	4000	1	1
Cranwell	997.8	+2	SW'W	3	iro	40	95	6	5	-	-	9+	9+	2500	1	*
Cardington	999.8	+2	WSW	3	c	39	95	8	4	6	1	7-8	9+	4000	1	*
Birmingham	999.8	0	WSW	3	pr	40	95	7	6	3	-	4-6	9	4000	1	*
Upper Heyford	1000.3	+6	W'S	3	c	38	95	8	5	-	-	7-8	7-8	2500	1	*
Leafield	1000.1	0	W'S	3	bc	38	85	8	5	-	-	4-6	4-6	4000	1	*
Ross-on-Wye	1000.4	0	W'S	2	c	41	75	8	5	7	-	2-3	9	2500	1	*
Portland Bill	1001.9	-2	W	5	c	46	65	8	4	7	-	4-6	7-8	2500	1	4
Plymouth	1003.7	-8	W	4	b	44	75	7	8	4	-	1	1	4000	1	2
Falmouth	1005.0	-2	WSW	4	bc/pr	42	85	8	3	-	-	4-6	4-6	4000	1	2
Scilly (St. Mary's)	1004.6	-14	WNW	6	pr	44	85	7	8	-	-	7-8	7-8	4000	1	4
Guernsey	1005.4	-2	WNW	2	bc	45	65	7	5	-	-	4-6	4-6	2500	0	3
Pembroke	1000.8	+6	W	4	q	45	85	7	8	-	-	9	9	2500	1	3
Holyhead	1000.9	+20	N'E	5	c	43	75	8	4	3	-	4-6	9+	1500	1	4
Chester (Sealand)	998.8	+8	NW	4	c	41	85	7	5	-	-	10	10	1500	1	*
L'pool (Bidston)	998.0	+8	WNW	4	o	40	95	7	6	-	-	10	10	1500	1	*
Harrogate	997.8	0	WSW	1	rr	37	95	5	6	-	-	10	10	2500	1	*
Spurn Head	996.5	0	WSW	1	c	40	95	6	5	3	-	4-6	10	1500	1	3
Tynemouth	998.0	+10	ENE	3	roro	40	95	7	6	-	-	10	10	1500	1	3
Inchkeith	1002.4	+24	NE	4	iro	36	95	3	5	2	-	4-6	9+	800	1	3
Leuchars	1003.4	+22	NNE	3	bc	34	85	8	5	3	-	2-3	4-6	2500	2	*
Renfrew	1004.1	+34	NE	3	c	36	85	7	5	-	-	7-8	7-8	2500	1	*
Eskdalemuir	1001.1	+24	NE	4	ss	33	95	5	6	-	-	10	10	220	3	*
Tiree	1005.7	+18	N	5	bc	39	65	9	5	-	-	2-3	2-3	2500	0	3
Stornoway	1005.7	+14	NW	1	bc	35	95	7	3	-	-	4-6	4-6	4000	0	1
Dalwhinnie	1005.7	+20	-	0	c	29	95	7	5	-	-	9	9	1500	8	*
Aberdeen	1004.9	+18	NW	2	b	35	75	8	1	-	-	1	1	2500	1	1
Wick	1004.6	+12	NW	3	bc	35	95	8	8	4	1	2-3	4-6	1500	0	2
Lerwick	1005.3	+14	S'W	1	c	36	95	7	8	6	-	4-6	7-8	1500	1	*
Blacksod Point	1009.2	+34	N	6	c	43	75	7	8	-	-	7-8	7-8	800	0	5
Malin Head	1005.1	+44	N	4	bc	42	85	8	2	8	-	4-6	4-6	2500	0	3
Aldergrove	1003.6	+38	NNW	4	c	38	85	7	6	-	-	9+	9+	1500	1	*
Donaghadee	1001.6	+20	NNW	6	q	41	75	7	6	-	-	9	9	800	0	3
Birr Castle	1004.8	+26	NW	3	bc	41	85	8	5	-	-	4-6	4-6	4000	1	*
Valentia Obsy.	1009.0	+38	NNW	6	bc	46	75	8	8	-	-	4-6	4-6	2500	1	4
Roches Point	1005.0	+20	N	4	c	45	85	8	3	-	-	7-8	7-8	1500	0	3

PAST 24 HOURS.

Stations	Weather 7h.-13h. 29th (37)	Weather 15h.-18h. 29th (38)	Weather 18h. 29th to 1h. 30th (39)	Weather 1h.-7h. 30th (40)
London (Kew)	bmocz o	cpo zo	cpocrmo	c
Croydon	bcmoiro	crocmor	corr romo	ororcmo
S. Farnborough	bc roro	cpbcciro	cbcorr	oroc
Winchester	bccprc	cprmorrc	cprobccr	cq
Boscombe Down	bccprc	cjpprir	cbccr	crbc
Calshot, S'thmtn	bcbbcc	cprqPRbc	bc	bcporbc
Dungeness	bc	p	*	r
Lympne	odobcmo	cporbcmo	coproro	ororqpr
Shoeburyness	bmo	bcmocro	ccir	ciroir
Felixstowe	oromobc	bccmoprpro	cmo	cmoriromo
Gorleston	ororoc	c moro	corr	ororo
Cranwell	cbcmo rm	roorrc	crroRRmo	orcmoprsom
Cardington	bccpr	cporc	cprc	c
Birmingham	bccpr	cpr	cpr	c
Upper Heyford	bccroc	cbcc	crobc	bccq
Leafield	bcpoc	cpo bc	coroc	cbcbq
Ross-on-Wye	poc	cbcc	ccroc	cb
Portland Bill	bc	bcroroc	bcc	cbc
Plymouth	bbccpr	bcb	bcpr	bbc
Falmouth	bcPHq	bcPq	bccPq	cbcq
Scilly (St. Mary's)	bccqp	cpq	cqp	cqpbc
Guernsey	bccpr	bccpr	bccpr	cprbc
Pembroke	cirq	cpoq	Rircq	cprh
Holyhead	c	prc	porqbc	bc
Chester (Sealand)	rodirc	croromo	bcpro	bc
L'pool (Bidston)	prqrp	rorir	ooc	cbb
Harrogate	orr	orr	orr	oiroiso
Spurn Head	croc	cporzc	opd orr	orr
Tynemouth	off	oir	orrq	orrss
Inchkeith	omorr	orr	bc	bcb
Leuchars	ororoaro	oroorocbc	bc ~~pc~~ bx	bx
Renfrew	ocmo	oroc proc	cbx	bbc bx
Eskdalemuir	ossoc	cosos	cisbcx	bcxbx
Tiree	oRr	cbc	b	bbc
Stornoway	bc	cirobc	bc	bc
Dalwhinnie	psoc	bcc	c	c
Aberdeen	cpmopro	cbcb	bcx	bcx
Wick	cproc	bc	bc	bc
Lerwick	bcprso	bccpor	cporbcpoh	bc
Blacksod Point	prc	pc	prqc	prc
Malin Head	cromo	cirocmo	bc	bcphr
Aldergrove	ciroirc	ciroc	ccpors	bcpsb
Donaghadee	ciroc	cq	idocq	cbc
Birr Castle	orcrocbc	bccrbc	cbcb	bbcx
Valentia Obsy.	bcpocp	cpocpbc	bccpobc	bcpobbc
Roches Point	bcpobc	bcpoc	cpqbc	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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.
h(r), "hail" or "rain and hail."

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus,

R, heavy rain. ro, slight rain. rr, continuous rain.

<. less than (for cloud height).

⊕, solar halo. ⊕, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

The figures in these columns indicate the number of tenths of the sky covered by low cloud and all forms of cloud respectively. An entry "4–6" means that the cloud amount may be 4, 5 or 6; similarly for other grouped entries.
"tr" signifies a small amount of cloud (trace) covering less than $\frac{1}{20}$ 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.

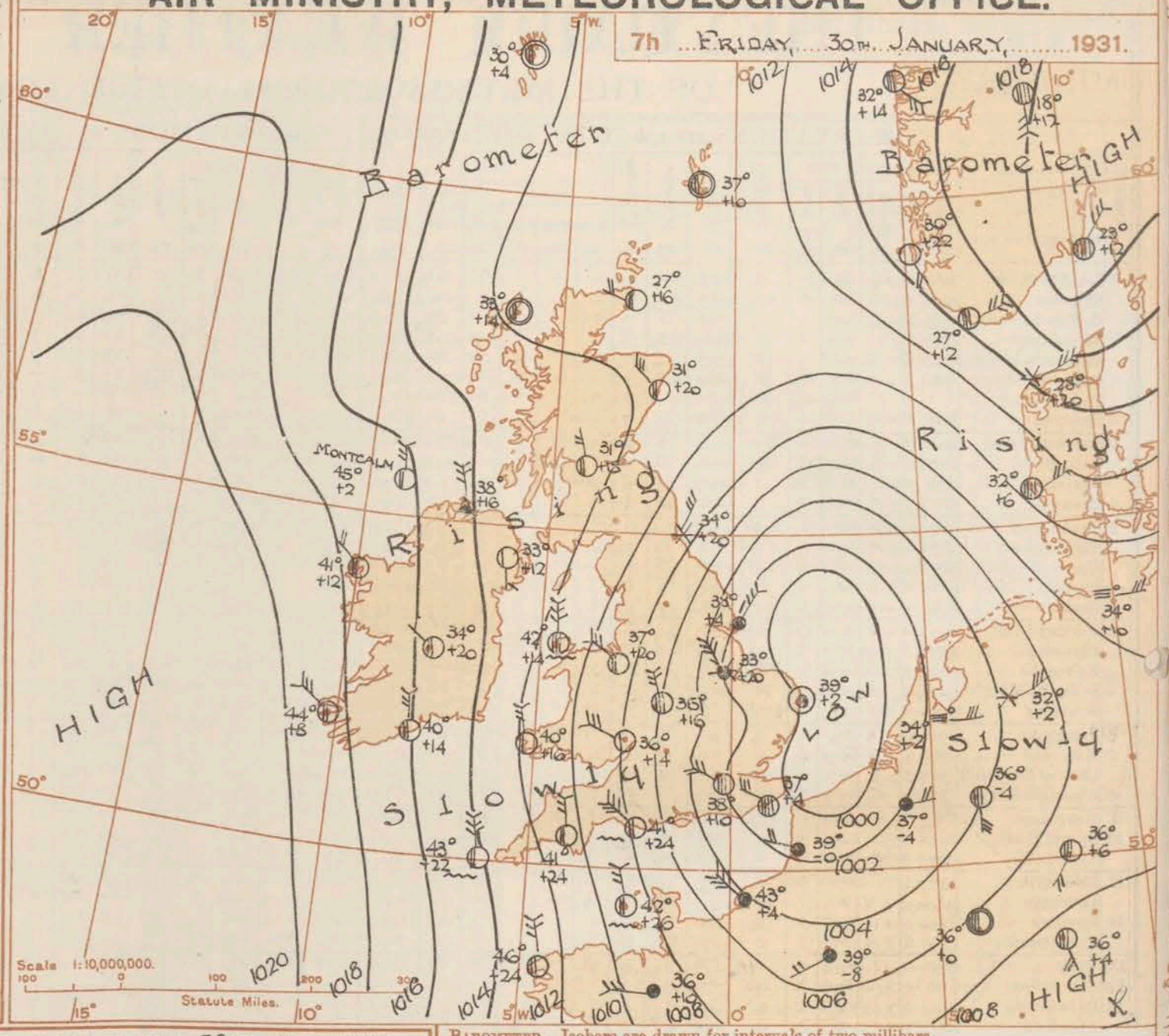
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6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

REPORTS from HEALTH RESORTS for 29th January, 1931.

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.	bcop	ocbc	36	44	2	Tr.	3.4
	Bournemouth	b	cor	38	48	1	1	4.4
	Ventnor ...	b	bbcor	40	48	1	1	6.2
	Southsea ...	bbp	bcor	41	47	3	0.4	4.9
	Bognor Regis	bc	bccr	39	48	3	0.3	4.8
	Littlehampton	bc	bccr₀	37	48	3	0.2	3.1
	Worthing ...	c	bccr₀	38	48	2	1	2.3
	Brighton ...	cbc	bcd	40	46	3	0.4	2.7
	Eastbourne†	bbcc	rocr₀	40	46	4	0.4	5.3
	Hastings† ...	bmbc	coroc	37	45	3	2	3.4
	Folkestone ...	rbcco	oroc	36	46	3	1	3.6
	Dover... ...	bbcc	obcc	39	47	3	-	4.1
	Deal	b	bco	39	45	3	-	2.9
	Ramsgate ...	bbc	bcc	39	43	3	-	3.1
	Margate ...	bc	bcc	36	45	1	-	3.8
2	Southend ...	cro	cro	38	42	2	Tr.	1.8
	Maldon ...	bscc	cpoc	36	45	2	Tr.	2.6
	Clacton-on-Sea	bcrpc	cpdc	39	44	4	1	3.9
	Dovercourt ...	roc	bcocd	38	45	5	Tr.	2.9
	Lowestoft ...	oprc	cbcc	37	44	2	2	1.1
	Skegness ...	odrmo	mod	37	42	8	3	0.4
	Mablethorpe	orrmo	orrmo	39	41	~~1~~ 5	2	0.0
	Cleethorpes ...	rocco	ro	37	42	5	0.2	0.2
3	Leamington S.	c	c	36	44	1	-	1.9
4	Cheltenham†	c	coc	37	44	3	-	0.7
5	Bath	cbcc	cirp	41	46	1	1	1.6
	Weymouth ...	b	bopb	41	50	0.3	0.3	4.8
	Jersey ...	rpc	rpcbc	44	47	3	2	3.5
	Torquay ...	crbbc	b	38	48	3	-	5.8
	Penzance ...	b	bpr	43	49	2	0.2	5.9
	St. Ives ...	c	pr	43	48	3	1	4.8
	Bude	cphbc	bc	42	49	1	0.2	4.0
	Ilfracombe ...	co	vpc	44	46	2	1	0.1
6	Aberystwyth	cpr	cpr	41	44	8	1	0.0
7	Llandudno ...	c	cro c	43	44	2	1	0.0
	Colwyn Bay...	o	orro	41	44	3	1	0.0
	Rhyl	cprc	crr	38	~~43~~ 45	4	1	0.6
8	Wallasey ...	ir	iro	41	43	5	1	0.0
	Southport‖ ...	odco	ocoro	41	44	8	1	0.1
	Blackpool ...	oro	odo	41	43	11	1	0.0
	Morecambe ...	rdpc	dcpc	40	43	5	1	0.0
9	Ilkley... ...	ror	or	36	42	4	3	0.0
10	Berwick-on-T.	oR	Ro	35	38	11	4	0.0
11	Dunbar ...	ormo	or	34	42	9	6	0.0
12	Douglas ...	oiro	cb	40	43	8	1	0.0

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

AIR MINISTRY, METEOROLOGICAL OFFICE.



Districts.	Forecasts for the 24 hours commencing 12 noon, G.M.T. 30th Jan. 1931.
1. S.E. England 2. E. England... 3. E. Midlands	Fresh northerly winds slowly moderating; bright periods, occasional showers of wintry type; cold or rather cold; severe frost locally tonight.
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 13. A. W. Scotld. B. N.W. Scotland. 14. Mid-Scotland	Moderate northerly to light variable winds; mainly fair apart from occasional showers at first; rather cold or cold; severefrost locally tonight.
15. N.E. Scotland 16. Orkneys and Shetlands.	Light or moderate variable winds; mainly fair; rather cold or cold; severe frost locally tonight.
17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Moderate northerly to light variable winds; bright periods, occasional showers at first, fair later; rather cold; severe frost inland tonight.

Barometer. Isobars are drawn for intervals of two millibars.
Wind. Arrows fly with the wind. Number of feathers indicate Beaufort force. Calm. - ⊙
Temperature is given in degrees F.
Weather Symbols :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. K Thunderstorm.
Sea Disturbance. ~~ Rough. ≈≈ High.
Barometric Change from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

GENERAL INFERENCE.

A ridge of high pressure will cross the country from the west while a depression southwest of Iceland moves northeastward. Showers are likely to prevail generally at first but later conditions will be mainly fair. A new depression in Mid-Atlantic will however move eastward to renew unsettled conditions after 24 hours in the West.

FURTHER OUTLOOK.

Mainly fair in the East but becoming unsettled in the West.

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

Friday, 30th January, 1931.

No. 25,271.

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

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	1001·7	0	W'N	3	ir₀	40	95	6	6	–	–	10	10	800
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester ...	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1002·8	+6	W'N	4	bc	39	85	7	5	–	–	4-6	4-6	2500
	Dungeness ...	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne ...	346	1001·2	0	WSW	3	r₀r₀	37	95	6	6	–	–	10	10	800
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe ...	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston ...	14	999·4	–4	S'W	2	r₀r₀	39	95	6	6	–	–	10	10	800
	Cranwell ...	240	999·4	+10	NW'W	3	r₀r₀	36	95	5	6	–	–	10	10	800
3	Cardington ...	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham ...	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield ...	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye ...	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill....	32	1002·9	+4	WNW	6	c	44	85	8	4	–	–	10	10	2500
	Plymouth ...	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth ...	200	1007·4	+14	NW	5	c	44	75	7	8	–	–	9	9	4000
	Scilly (St. Mary's)	163	1009·0	+20	NNW	7	c	44	85	8	2	–	–	7-8	7-8	4000
	Guernsey ...	175	1005·6	+2	WNW	1	c	44	75	7	5	–	–	7-8	7-8	2500
6	Pembroke ...	142	1006·5	+20	NNW	4	q	42	85	7	3	7	–	4-6	9	1500
7	Holyhead ...	26	1007·8	+34	NNE	6	bc	41	75	8	4	–	–	4-6	4-6	1500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate ...	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head ...	29	997·6	+2	NW'N	3	rr	39	95	6	6	–	–	10	10	2500
	Tynemouth ...	67	1003·8	+24	N	4	rr	37	95	7	6	–	–	10	10	1500
11	Inchkeith ...	190	1007·7	+16	NNE	3	bc	33	85	8	–	4	–	0	2-3	–
	Leuchars ...	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew ...	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir ...	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway ...	34	1007·9	+6	–	0	c	35	95	7	6	–	–	7-8	7-8	4000
15	Dalwhinnie ...	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen ...	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1007·9	+12	W	2	bc	30	95	8	7	4	–	2-3	2-3	4000
16	Lerwick ...	54	1009·0	+20	S'E	1	bc	37	85	8	8	–	–	4-6	4-6	1500
17	Blacksod Point	18	1014·4	+20	NW	5	c/pr	42	85	7	3	–	–	7-8	7-8	800
18	Malin Head ...	52	1010·0	+8	NNW	5	bc/p	43	75	8	3	6	–	4-6	4-6	2500
	Aldergrove ...	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee ...	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle ...	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1016·1	+20	N	4	bc	45	75	8	6	–	–	2-3	2-3	4000
	Roches Point...	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

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

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)...	1003·0	+12	NW'W	4	c	39	75	7	8	–	–	10	10	1500	1	*
	Croydon ...	1003·0	+10	NW'W	5	o/r	38	85	6	5	–	–	10	10	800	1	*
	S. Farnborough	1003·7	+16	WNW	4	c	38	75	7	5	–	–	10	10	1500	1	*
	Winchester ...	1005·4	+12	NNW	6	q	37	75	8	5	–	–	9+	9+	1500	1	*
	Boscombe Down	1006·3	+12	NW	5	bc	36	75	7	5	–	–	4-6	4-6	800	1	*
	Calshot, (S'thmtn)	1004·8	+10	NW'N	5	bc	39	75	7	5	–	–	4-6	4-6	2500	1	2
	Dungeness ...	*	*	W	2	o	*	*	6	5	–	*	10	10	4000	*	1
	Lympne ...	1001·1	+4	NW'W	3	o/pr	37	95	6	6	–	–	10	10	800	1	*
2	Shoeburyness	1000·7	0	WNW	3	r₀r₀	38	95	7	6	–	–	10	10	800	1	*
	Felixstowe ...	1000·4	0	WNW	2	ir₀	37	95	6	6	2	–	7-8	10	800	1	2
	Gorleston ...	1000·0	+2	–	0	r₀r₀	39	95	6	6	–	–	10	10	800	1	1
	Cranwell ...	1001·3	+20	NNW	6	r₀s₀	33	95	5	6	–	–	10	10	800	1	*
3	Cardington ...	1001·9	+8	NW'N	6	c	38	75	7	5	–	–	10	10	1500	1	*
	Birmingham ...	1006·4	+16	NNW	5	c	35	85	7	5	–	–	9+	9+	2500	1	*
	Upper Heyford	1004·4	+20	N	6	c	36	85	8	5	–	–	9	9	1500	1	*
	Leafield ...	1004·4	+14	NW'N	6	bc	34	85	8	5	–	–	4-6	4-6	2500	1	*
4	Ross-on-Wye ...	1007·7	+14	WNW	4	b	36	75	8	5	–	–	1	1	4000	1	*
5	Portland Bill....	1006·7	+24	NW	6	bc	41	65	8	4	4	–	2-3	2-3	2500	1	4
	Plymouth ...	1011·4	+24	N	4	bc	41	75	8	9	–	–	2-3	2-3	2500	1	2
	Falmouth ...	1012·9	+10	NNW	5	bc	42	65	8	3	–	–	4-6	4-6	4000	0	2
	Scilly (St. Mary's)	1014·7	+22	N'W	6	bc	43	75	8	2	–	–	4-6	4-6	4000	1	4
	Guernsey ...	1008·7	+26	NNW	4	bc	42	65	7	8	–	–	4-6	4-6	2500	1	4
6	Pembroke ...	1011·1	+16	NNW	4	bc	40	95	8	8	–	–	4-6	4-6	2500	1	3
7	Holyhead ...	1011·1	+14	N	6	u	42	75	8	8	–	–	7-8	7-8	1500	1	4
	Chester (Sealand)	1009·9	+30	NW	4	bc	37	75	7	5	–	–	4-6	4-6	2500	1	*
8	L'pool (Bidston)	1009·1	+20	NW	5	b	37	75	8	5	–	–	1	1	2500	1	*
9	Harrogate ...	1007·1	+26	NNW	2	ss	33	95	5	6	–	–	10	10	2500	6	*
10	Spurn Head ...	1000·6	+4	NE	4	rr	38	95	7	6	–	–	10	10	2500	1	3
	Tynemouth ...	1008·6	+20	NNE	3	ss	34	95	6	6	–	–	10	10	1500	1	3
11	Inchkeith ...	1011·3	+16	NW	2	b	33	85	8	5	–	–	1	1	4000	0	1
	Leuchars ...	1012·1	+16	WSW	2	b	28	85	8	2	6	–	Tr.	Tr.	4000	4	*
12	Renfrew ...	1012·9	+18	NNW	2	bc	31	85	8	4	–	–	2-3	2-3	4000	4	*
	Eskdalemuir ...	1011·8	+20	N'E	2	b	28	75	8	–	–	–	0	0	–	6	*
13A	Tiree	~~1015·7~~ 1012·7	+10	NW'N	4	bc	41	65	9	1	–	8	1	2-3	4000	0	3
13B	Stornoway ...	1011·6	+14	–	0	bc	33	85	7	2	–	–	4-6	4-6	4000	5	1
15	Dalwhinnie ...		+14	N	1	c	29	85	8	5	–	–	9	9	2500	8	*
	Aberdeen ...	1011·7	+20	NW	3	bc	31	85	8	8	–	–	4-6	4-6	2500	4	1
	Wick	1010·7	+16	WNW	2	bc	27	95	8	3	6	–	2-3	2-3	2500	4	2
16	Lerwick ...	1011·8	+10	–	0	bc	37	85	8	8	–	–	2-3	2-3	1500	5	*
17	Blacksod Point	1017·1	+12	NW	2	bc	41	85	7	3	–	–	4-6	4-6	2500	0	3
18	Malin Head ...	1013·7	+16	NNW	5	phr	38	95	7	3	–	–	4-6	4-6	2500	1	3
	Aldergrove ...	1013·9	+12	S	1	b	33	95	7	8	–	–	1	1	2500	6	*
	Donaghadee ...	1012·9	+18	N	3	bc	40	75	7	5	–	–	7-8	7-8	1500	0	2
19	Birr Castle ...	1015·9	+20	NW	1	bc	34	95	8	–	3	–	0	2-3	–	1	*
20	Valentia Obsy.†	1018·8	+8	NW'N	4	bc/pr	44	85	8	8	–	–	2-3	2-3	2500	1	3
	Roches Point...	1016·2	+14	N	4	bc	40	85	8	3	–	–	2-3	2-3	1500	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 29th Hrs. (36)
1	London (Kew)...	45	39	37	0.4	1	1·1
	Croydon ...	45	38	36	1	2	1·7
	S. Farnborough	47	38	32	0.5	2	2·5
	Winchester ...	45	36	34	3	1	1·9
	Boscombe Down	44	35	35	1	1	*
	Calshot, (S'thmtn)	46	38	34	2	0·3	3·2
	Dungeness ...	436	31	*	0.3 0.37		*
	Lympne ...	43	35	31	0.1	2	3·0
2	Shoeburyness	44	37	33	Tr.	1	2·9
	Felixstowe ...	44	36	35	1	2	2·3
	Gorleston ...	44	38	37	3	8	0·0
	Cranwell ...	42	32	32	6	5	1·0
3	Cardington ...	45	37	36	0.1	1	3·7
	Birmingham ...	43	35	32	1	0·3	0·8
	Upper Heyford	44	35	34	0.1	0·4	*
	Leafield ...	43	34	31	0.1	0·5	3·1
4	Ross-on-Wye ...	44	36	31	0.1	3	0·4
5	Portland Bill....	47	39	*	0.6	–	*
	Plymouth ...	48	40	36	0.5	1	5·2
	Falmouth ...	47	41	*	3	0·4	5·9
	Scilly (St. Mary's)	47	41	*	1	1	5·0
	Guernsey ...	48	42	36	0.3	2	4·1
6	Pembroke ...	48	40	*	Tr.	1	1·3
7	Holyhead ...	45	40	36	1	Tr.	0·1
	Chester (Sealand)	44	36	33	1	0·1	0·1
8	L'pool (Bidston)	43	36	33	3	–	0·0
9	Harrogate ...	40	32	32	3	2	0·0
10	Spurn Head ...	41	37	*	1	7	0·0
	Tynemouth ...	42	34	32	1	10	*
11	Inchkeith ...	38	32	28	5	Tr.	0·0
	Leuchars ...	38	27	23	7	0·1	0·0
12	Renfrew ...	38	25	17	Tr.	–	0·0
	Eskdalemuir ...	35	26	19	3	0·2	0·0
13A	Tiree	41	37		9	–	2·1
13B	Stornoway ...	42	32	*	Tr.	2	5·7
15	Dalwhinnie ...	33	20	*	0.4	–	0·8
	Aberdeen ...	40	30	25	0.2	–	1·1
	Wick	40	27	*	Tr.	–	*
16	Lerwick ...	41	35	*	1	0·2	2·1
17	Blacksod Point	47	39	*	2	0·4	*
18	Malin Head ...	43	36	*	2	1	0·0
	Aldergrove ...	42	30	23	1	2	0·3
	Donaghadee ...	42	38	*	1	0·1	*
19	Birr Castle ...	46	33	28	2	–	3·2
20	Valentia Obsy.†	47	43	40	2	0·2	1·4
	Roches Point...	47	37	*	0.1	0·2	*

LONDON OBSERVATIONS.

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

	Height above M.S.L. in feet.	Weather Morning.	Weather Afternoon.	Weather Night.	Temperature Day Max. °F.	Temperature Night Min. °F.	Temperature Min. on Grass °F.	Rainfall Day. mm.	Rainfall Night. mm.	Sunshine to Sunset. hrs.	Humidity 15h. G.M.T. %	Humidity 9h. G.M.T. %	Visibility 9h.
		24 hrs. ended 9h.								Yesterday.		To-day.	
Kew	18	bm₀cz₀	cp₀z₀	cpcrmc	45	39	37	0·4	1	1·1	*	*	7
Croydon	217	b,cm,ir	cr₀cm₀r	corrccm	45	38	36	1	2	1·7	*	*	6
Greenwich (Royal Observatory) ...	149	bc	cidod	cddro	45	38	34	1	2	0·8	71	77	5
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·4	*	*	*
Westminster (St. James' Park) ...	27	*	*	*	45	39	33	2		0·8	69	76	*
Regents Pk. (Botanic Gardens) ...	168	*	*	*	*	*	*	*	*		*	*	*
Camden Square	110	bc	ccpcchr	*	44	38	36	2	2	*	*	81	*
Kensington Palace	80	bc	odr	*	44	38	35	1	2	*	At 18h. 87	75	*
Hampstead Observatory	450	bcmorh	o od	*	43	34	31	1	1	1·5	*	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	9h 29th	<0·3	1·3h 30th

Kew Observatory. Max.	Time.	Min.	Time.
0·3	9h 29th	0·1	24h 29th

FOREIGN OBSERVATIONS.

Stations.	18h. G.M.T. 29th January. Barom. mb.	Wind. Direc.	Wind. Force.	Weather.	Temp. °F.	7h. G.M.T. 30th January. 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	1006·5	W	3	bc	43	1005·0	WSW	2	d₀d₀	39	50	36	Tr.	Tr.
Brussels	1001·9	WSW	2	c	37	1002·0	E	2	ir₀	37	43	36	4	3
Berlin	1002·7	NW	2	o	32	1008·6	ENE	2	z	31	34	32	0·5	–
Zürich	1011·8	WNW	3	rr	37	1011·2	S	1	is	34	43	32	2	5
Rome	1012·3	NE	2	c	41	1010·9	–	0	c	37	55	32	–	–

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.

0	Dense fog	55 yards.
1	Thick fog	220 „
2	Fog	550 „
3	Moderate fog	1,100 „
4	Mist or haze	1½ miles.
5	Poor visibility	2½ „
6	Moderate „	6½ „
7	Good „	12½ „
8	Very good „	31 „
9	Excellent „	beyond 31m.

COLUMN 30.—Code for State of Sea.

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

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

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

† 1 hr observations are from Valentia W/T station

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 31st January 1931.

No. 25,272.

OBSERVATIONS at 13h. G.M.T. 30th January

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 29th Hrs. (36)
1	London (Kew)	1006.5	+30	N'W	5	o	37	85	6	5	-	-	10	10	2500	1.1
	Croydon	1006.2	+18	NNW	4	r₀r₀	36	95	4	6	-	-	10	10	450	1.7
	S. Farnborough	1007.0	+24	NW	5	r₀r₀	37	85	7	6	-	-	10	10	800	2.5
	Winchester	1008.6	+14	NNW	7	pr₀	38	75	7	5	-	-	10	10	1500	1.9
	Boscombe Down	1010.2	+20	NNW	6	q	38	75	7	3	-	-	9	9	2500	*
	Calshot, S'thmtn	1007.9	+10	NNW	8	q	40	65	6	5	-	-	10	10	1500	3.2
	Dungeness	*	*	N	3	id₀	*	*	6	6	-	*	10	10	2500	*
	Lympne	1003.8	+16	N'E	4	o/rs	35	95	6	6	-	-	10	10	220	3.0
2	Shoeburyness	1004.8	+24	NE	4	c	38	85	7	5	2	-	7-8	10	1500	2.9
	Felixstowe	1006.1	+40	NE	4	c/r	41	95	6	5	3	-	7-8	9	1500	2.3
	Gorleston	1006.6	+36	E'N	5	o	38	95	6	6	-	-	10	10	1500	0.0
	Cranwell	1011.7	+52	N'E	4	o/s	33	95	6	6	-	-	10	10	800	1.0
3	Cardington	1007.9	+34	N	6	ir₀	35	95	7	6	-	-	10	10	450	3.7
	Birmingham	1012.3	+32	N	4	3	38	75	5	1	-	-	9-7	9-7	2500	0.8
	Upper Heyford	1010.5	+42	N'W	7	is	34	95	5	6	-	-	10	10	1500	*
	Leafield	1010.2	+30	N'W	7	is₀	36	85	6	6	-	-	9+	9+	2500	3.1
4	Ross-on-Wye	1013.5	+26	N'W	4	c	39	65	8	4	8	-	4-6	7-8	4000	0.4
5	Portland Bill	1011.0	+16	NW	6	bc	43	55	8	8	-	-	2-3	2-3	2500	*
	Plymouth	1014.8	+10	N	6	bc	44	55	8	9	-	1	4-6	4-6	2500	5.2
	Falmouth	1017.1	+6	NNW	6	bc	44	65	8	2	-	-	4-6	4-6	4000	5.9
	Scilly (St. Mary's)	1018.9	+20	NNW	6	bc	46	65	8	2	-	-	4-6	4-6	4000	5.0
	Guernsey	1012.9	+12	NW	5	bc/ph(r)	43	65	7	7	-	-	4-6	4-6	2500	4.1
6	Pembroke	1016.7	+20	NNW	5	q	43	85	8	8	9	9	4-6	7-8	2500	1.3
7	Holyhead	1015.9	+20	N'E	5	u	42	65	9	8	-	2	2-3	2-3	2500	0.1
	Chester (Sealand)	1015.5	+22	NNW	3	c	40	65	7	5	-	5	7-8	7-8	2500	0.1
8	L'pool (Bidston)	1015.6	+20	NW	3	bc	39	65	8	5	-	-	2-3	2-3	4000	0.0
9	Harrogate	1014.0	+26	NW	1	o	35	95	5	6	-	-	10	10	2500	0.0
10	Spurn Head	1010.9	+18	NE'E	4	c	39	85	7	3	7	8	4-6	10	2500	0.0
	Tynemouth	1013.9	+20	N	3	bc	39	85	8	9	-	-	4-6	4-6	2500	*
11	Inchkeith	1015.5	+16	WSW	2	bc	37	85	6	5	8	-	2-3	4-6	800	0.0
	Leuchars	1015.8	+14	W	2	b	37	75	7	1	-	-	Tr.	Tr.	4000	0.0
12	Renfrew	1016.7	+18	WSW	1	3	39	65	5	-	9	-	0	4-6	-	0.0
	Eskdalemuir	1016.3	+20	ENE	1	b	34	75	8	1	-	1	Tr.	Tr.	2500	0.0
13A	Tiree	1015.5	+10	-	0	c	43	65	9	7	-	6	1	9+	4000	2.1
13B	Stornoway	1013.9	+6	WSW	2	c	38	95	9	1	7	-	4-6	7-8	4000	5.7
15	Dalwhinnie	1016.0	+16	SSW	1	c	32	95	8	5	-	-	9	9	4000	0.8
	Aberdeen	1015.7	+12	NW	2	b	37	75	8	2	-	-	Tr.	Tr.	2500	1.1
	Wick	1014.5	+16	W	2	bc	36	95	8	2	4	-	2-3	4-6	2500	*
16	Lerwick	1015.0	+16	S'W	2	bc	36	95	8	8	6	-	4-6	4-6	1500	2.1
17	Blacksod Point	1018.9	+2	S	2	cjp	43	85	8	-	1	-	0	10	-	*
18	Malin Head	1016.5	+8	NW	3	cjp	43	75	8	3	8	7	1	10	2500	0.0
	Aldergrove	1017.6	+10	W	2	bc	38	85	8	8	4	4	2-3	4-6	4000	0.3
	Donaghadee	1016.5	+14	NE	3	c	43	65	8	8	-	-	7-8	7-8	2500	*
19	Birr Castle	1019.3	+10	NW	1	c	42	85	8	-	3	-	0	9	-	3.2
20	Valentia Obsy.	1021.1	+10	W'N	3	c	47	75	8	5	-	-	9+	9+	1500	1.4
	Roches Point	1020.4	+12	N	3	c	45	75	8	8	-	9	4-6	7-8	1500	*

OBSERVATIONS at 18h. G.M.T. 30th January

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)	1016.0	+60	N	4	o/r	38	85	5	6	-	-	10	10	800	1	*
	Croydon	1014.2	+46	N	4	ir₀	39	85	4	5	-	-	10	10	450	4	*
	S. Farnborough	1015.9	+56	NNW	4	o	37	85	6	6	-	-	10	10	450	1	*
	Winchester	1016.8	+50	N	5	o/s	36	85	7	5	-	-	10	10	1500	1	*
	Boscombe Down	1017.2	+42	N	4	3₀	36	85	6	5	3	-	9	9+	1500	1	*
	Calshot, S'thmtn	1015.8	+50	N'W	6	c/r	37	85	6	6	2	-	7-8	10	1500	1	3
	Dungeness	*	*	NE	5	3₀	*	*	6	5	-	*	10	10	2500	*	3
	Lympne	1012.0	+60	NNE	6	ir₀	38	85	6	6	2	-	9	10	800	1	*
2	Shoeburyness	1013.7	+58	NNE	4	o	38	85	7	6	-	-	10	10	800	1	*
	Felixstowe	1014.1	+48	N	4	o	38	85	7	5	-	-	10	10	1500	1	2
	Gorleston	1014.5	+38	NE	5	c	38	75	6	4	-	-	9+	9+	2500	1	4
	Cranwell	1017.9	+36	N'W	3	bc	33	95	5	5	-	-	2-3	2-3	2500	7	*
3	Cardington	1016.8	+50	N'E	4	c/ps	36	85	6	4	3	-	1	7-8	2500	1	*
	Birmingham	1018.7	+30	NNW	3	b	35	85	5	-	-	-	0	0	-	1	*
	Upper Heyford	1017.6	+42	N'E	4	bc	35	85	6	-	2	-	0	2-3	-	8	*
	Leafield	1017.4	+30	N	4	bc	34	85	6	4	-	1	Tr.	2-3	2500	1	*
4	Ross-on-Wye	1018.7	+36	N	2	b	35	85	6	-	-	8	0	1	-	1	*
5	Portland Bill	1016.8	+40	NNW	5	bc	40	65	8	4	4	-	2-3	4-6	2500	1	3
	Plymouth	1019.7	+34	N	4	bc	41	75	8	3	-	1	2-3	2-3	2500	1	3
	Falmouth	1020.5	+10	N'W	4	bc	42	65	8	2	3	-	4-6	4-6	4000	0	2
	Scilly (St. Mary's)	1020.9	+12	NNW	4	c	45	75	7	8	-	-	7-8	7-8	4000	0	2
	Guernsey	1016.9	+40	NNW	4	c	43	65	7	5	-	-	7-8	7-8	1500	1	4
6	Pembroke	1019.6	+20	NNW	4	c	41	85	8	5	7	-	1	7-8	2500	0	2
7	Holyhead	1018.8	+18	NNW	1	u	41	75	9	8	-	8	1	7-8	2500	1	1
	Chester (Sealand)	1018.7	+20	W'N	3	b	34	85	7	-	-	1	0	1	-	0	*
8	L'pool (Bidston)	1018.9	+18	NW	2	b	37	75	7	-	-	1	0	1	-	0	*
9	Harrogate	1018.6	+30	-	0	c	34	95	6	3	-	-	7-8	7-8	2500	1	*
10	Spurn Head	1016.9	+16	NE	2	c	38	75	7	3	3	-	4-6	9+	4000	1	5
	Tynemouth	1018.4	+22	NW	2	bc	34	95	6	9	-	-	4-6	4-6	2500	1	3
11	Inchkeith	1018.0	+12	WSW	2	m	35	95	4	5	1	7	4-6	10	1500	4	1
	Leuchars	1018.2	+14	-	0	bc	30	85	7	-	3	6	0	4-6	-	4	*
12	Renfrew	1018.4	+12	SE	1	3	32	95	5	-	-	8	0	4-6	-	4	*
	Eskdalemuir	1019.7	+16	-	0	b	25	85	8	-	-	1	0	1	-	6	*
13A	Tiree	1015.6	-4	S'E	2	c	35	85	9	7	7	8	Tr.	7-8	4000	0	2
13B	Stornoway	1014.0	+2	-	0	c	36	95	8	4	1	-	2-3	10	4000	1	1
15	Dalwhinnie	1018.0	+6	SSW	1	bc	23	75	8	5	-	-	4-6	4-6	4000	8	*
	Aberdeen	1018.3	+10	WSW	1	b	30	95	6	-	-	1	0	Tr.	-	4	1
	Wick	1015.6	+8	WSW	3	c	36	95	8	4	7	2	4-6	7-8	2500	0	3
16	Lerwick	1015.4	+6	SW	3	ph(r)	35	95	7	8	-	-	7-8	7-8	1500	1	*
17	Blacksod Point	1015.7	-18	S	3	rr	43	95	7	6	-	-	10	10	<150	1	3
18	Malin Head	1016.0	-2	S	2	c	40	85	7	5	-	-	10	10	1500	0	2
	Aldergrove	1018.3	+4	SE'S	2	c	35	95	7	-	7	-	0	7-8	-	1	*
	Donaghadee	1018.1	+8	SW	1	c	37	95	7	5	-	-	7-8	7-8	2500	0	0
19	Birr Castle	1018.8	+2	SW	1	r₀r₀	40	95	7	6	-	-	10	10	2500	1	*
20	Valentia Obsy.	1019.6	-10	S	3	ir₀	44	95	6	5	-	-	10	10	800	1	3
	Roches Point	1020.5	+2	SW	3	pr₀	45	85	8	6	-	-	10	10	1500	0	2

PAST 24 HOURS.

District	Stations	Weather 7h.–13h. 30th (37)	13h.–18h. 30th (38)	18h. 30th to 1h. 31st (39)	1h.–7h. 31st (40)
1	London (Kew)	cor₀r₀som₀	oir₀	bbx	bfx
	Croydon	cm₀qomr₀s₀	om₀r₀fr₀r₀	or₀bmx	bmffx
	S. Farnborough	cos₀r₀s₀r₀	or₀pr₀s₀r₀	obbx	bm%F
	Winchester	cqcpr₀	cpr₀rrsss₀c	cbcbm₀x	bm₀xmom
	Boscombe Down	bccq	cqor₀r₀cm	bcm₀x	bcm₀xcffx
	Calshot, S'thmtn	bccq	cir₀r₀qm₀	cpr₀qcbcm	bcbxm₀
	Dungeness	d	o	*	bc
	Lympne	orrsm₀	or₀m₀	or₀cm₀	cbcm₀
2	Shoeburyness	ors₀c	cir₀o	cbc	bx
	Felixstowe	cr₀om₀	cm₀rcz₀	cb	bbccx
	Gorleston	orrqo	ocq	cbccq	cq
	Cranwell	or rs ss	cm₀bcb	bm₀p	bfxm₀
3	Cardington	cr₀rs₀ssm₀	oss₀dcprs	cbc bffex	bffex
	Birmingham	cbc	bcb	bx	bbccx
	Upper Heyford	cbccrsS	oSssqcbcbm₀	bmx	offex
	Leafield	cirs₀	osr₀cb	bx	bccffx
4	Ross-on-Wye	bccvc	bobbc	bccmx	ccm₀
5	Portland Bill	bc	bc	bccm₀	czo
	Plymouth	bcbqy	cqyprbv	b,c	orrm₀
	Falmouth	bcq	bcq	bcc	com₀rr
	Scilly (St. Mary's)	bcc	bc	corr	m₀rr
	Guernsey	cphrq	bcqc	cbcc	cbcco
6	Pembroke	cq	c	cr₀r₀	crrq
7	Holyhead	prh bc	bccv	ccc	r₀r₀c
	Chester (Sealand)	bbcz	bc	bxcm₀	com₀
8	L'pool (Bidston)	b	bbcb	bcx₀	ccqrs
9	Harrogate	oss rs	oc	b	bofx
10	Spurn Head	ors c	bc	cpsbcx	cmx
	Tynemouth	oirs bc	bc	bcmff	bcffo
11	Inchkeith	bbcm₀	m₀c	cmm₀m₀	co
	Leuchars	bxb	b, bcx	bcx	bccx
12	Renfrew	bcbxm	bczom	bccm₀	cm₀or₀r₀
	Eskdalemuir	bxb	bbcbx	bxbcx	cromsss
13A	Tiree	bcc	cbc	bccrr	rrRR
13B	Stornoway	bc	c	cpr	odd,
15	Dalwhinnie	pshc	bcc	bcc	coksf
	Aberdeen	bcps₀bc	bbcb	bx	b,c
	Wick	bcpsh	bcc	bc	bcc
16	Lerwick	bc	bccphr	cprh,	bcpr
17	Blacksod Point	o	rr	dd	rr
18	Malin Head	bcphcjp	c	cm₀r₀r₀	crir
	Aldergrove	rsbcjp	bccbc	cr₀r₀rr	crrm₀
	Donaghadee	bc	bcc	cir	orrq
19	Birr Castle	bcc	cor₀r₀p	orr	orr
20	Valentia Obsy.	bcpcpc	cp₀ir₀	~~odd~~ oir₀orc	cr₀crrs
	Roches Point	bcc	cop₀	or₀r₀	oir₀or₀

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.
m, mist, „ 1100–2200 yds.
h, hail. i, intermittent.
jp, precipitation within sight of station.
KQ, line squall. l, lightning.
o, overcast sky. p, passing showers.
q, squalls. r, rain. s, snow.
rs, sleet. t, thunder.
u, ugly, threatening sky.
v, unusual visibility. w, dew.
x, hoar frost. y, dry air.
z, dust haze; the turbid atmosphere of dry weather.

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

Capital letters indicate intense; suffix o indicates slight; repetition of letters indicates continuity: thus, R, heavy rain. r_0, slight rain. rr, continuous rain.

<, less than (for cloud height).

⊕, solar halo. ☽, lunar halo.

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

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

COLUMNS 9, 23.—FORM OF LOW CLOUD.

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

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

COLUMNS 12, 13, 26, 27.

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

COLUMNS 10, 24.—FORM OF MEDIUM CLOUD.

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

COLUMNS 11, 25.—FORM OF CIRRUS CLOUD.

0 No cirriform cloud.
1 Fine Ci not increasing: sparse.
2 Fine Ci not increasing: abundant but not a continuous layer.
3 Anvil Ci (usually dense).
4 Fine Ci increasing: usually in tufts.
5 Ci or Ci-St increasing: still below 45° altitude: often in polar bands.
6 Ci or Ci-St increasing and reaching above 45° altitude: often in polar bands.
7 Veil of Ci-St covering whole sky.
8 Ci-St not increasing and not covering whole sky.
9 Ci-Cu predominating, and a little cirrus.

(Ci-Cu may occur with any of the types 1 to 8).

COLUMN 29.—STATE OF GROUND.

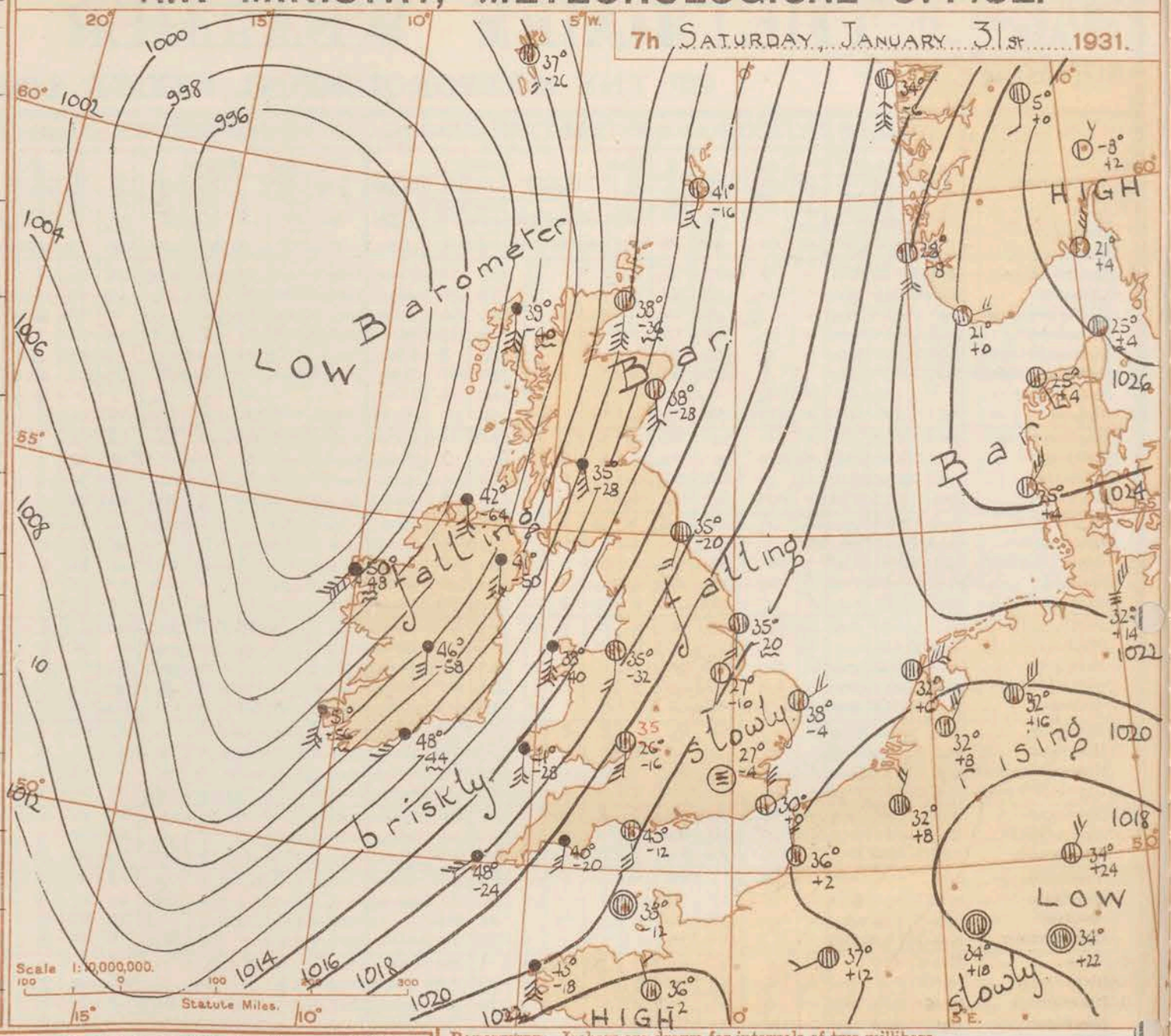
0 Dry.
1 Wet.
2 Flooded.
3 Covered with thawing snow.
4 Frozen hard and dry.
5 Covered with ice or glazed frost.
6 Partly covered by snow or hail.
7 Covered with snow, less than 6 ins., but ground not frozen.
8 Covered with snow, less than 6 ins., and ground frozen.
9 Covered with snow greater than 6 ins. deep.

REPORTS from HEALTH RESORTS for 30th January, 1931.

Districts.	Stations.	Weather. Forenoon.	Weather. Afternoon.	Temperature. Min. 29th 9h. to 30th 9h.	Temperature. Max. 9h.—17h. 30th	Rainfall. Night. 17h. 29th to 9h. 30th	Rainfall. Day. 9h.—17h. 30th	Sunshine. Sunrise to Sunset. 30th
1	Tunbridge W.	oso	opo	36	39	2	2	0·0
	Bournemouth	b	bbco	35	42	0·3	-	6·7
	Ventnor ...	orobc	bcors	36	41	2	Trace	4·1
	Southsea ...	c	c	38	40	2	-	0·2
	Bognor Regis	co	ro	35	40	2	0·3	0·0
	Littlehampton	bccr	crc	38	41	3	1	0·4
	Worthing ...	cr₀o	or₀	38	40	3	1	0·1
	Brighton ...	orc	odc	39	40	2	1	0·0
	Eastbourne†	or₀o	or₀o	38	41	4	0·4	0·0
	Hastings† ...	omoro	os₀oc	37	40	2	1	0·0
	Folkestone ...	orrs	oir	35	41	2	2	0·0
	Dover... ...	cir	ireo	32	42	2	1	0·0
	Deal	oro	r₀o	36	42	2	1	0·0
	Ramsgate ...	do	oro	36	41	5	2	0·0
	Margate ...	cd	cdc	37	42	3	1	0·0
2	Southend ...	orc	corm	36	*(41)	3	1	0·0
	Maldon ...	rocid	cido	36	41	3	Trace	0·0
	Clacton-on-Sea	cpc	copo	37	41	3	0·3	0·3
	Dovercourt ...	roc	roc	35	40	2	0·4	0·0
	Lowestoft ...	opr c	(4) c	37	38	8	2	0·0
	Skegness ...	rro	bam	35	39	11	7	0·6
	Mablethorpe	orsrgm	oc	35	40	16	3	0·0
	Cleethorpes ...	sro	roc	33	*41	10	2	0·0
3	Leamington S.	c	c	36	39	-	-	0·0
4	Cheltenham†	c	cbccm	37	41	1	-	1·8
5	Bath	c	cbc	37	41	1	-	2·0
	Weymouth ...	b	b	37	44	0·1	-	8·4
	Jersey ...	dcbc	rcbc	42	47	1	Trace	7·0
	Torquay ...	bbcg	bcb	38	45	0·4	-	8·1
	Penzance ...	cg b	bbc	42	47	3	-	5·3
	St. Ives ...	b	b	43	46	2	-	5·7
	Bude	prhbc	bc	41	44	1	0·4	6·5
	Ilfracombe ...	b	b	41	45	1	-	5·4
6	Aberystwyth	cprbc	bcbbc	39	42	2	-	6·9
7	Llandudno ...	bcb	bbc	38	42	0·3	-	6·3
	Colwyn Bay...	bbcb	bbcb	39	41	0·3	-	6·7
	Rhyl	b	b	38	42	-	-	6·4
8	Wallasey ...	bcb	b	36	40	-	-	6·4
	Southport‖ ...	b	b	36	41	-	-	6·7
	Blackpool ...	bbc	bcc	35	41	-	-	6·2
	Morecambe ...	b	b	35	40	-	-	6·4
9	Ilkley... ...	corgc	bc	35	38	2	Trace	0·4
10	Berwick-on-T.	ocbc	bc	35	38	3	-	3·1
11	Dunbar ...	bc	bc	32	38	1	-	3·1
12	Douglas ...	xcbbc	bcx	34	41	-	-	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 the wind. Number of feathers indicate Beaufort force. Calm, = ⊙
TEMPERATURE is given in degrees F.
WEATHER SYMBOLS :—
○ Clear sky. ◐ Sky less than 1/10 clouded. ◑ Sky 1/10 to 5/10 clouded. ◕ Sky 6/10 to 9/10 clouded. ● Overcast sky.
● Rain falling. ✳ Snow. ▲ Hail. ≡ Fog. ≡ Mist. T Thunder. K Thunderstorm.
SEA DISTURBANCE. ~ Rough. ≈ High.
BAROMETRIC CHANGE from 4h. to 7h. in tenths of millibars is entered beneath the temperature.

Districts.	FORECASTS FOR THE 24 HOURS COMMENCING 12 NOON, G.M.T. 31st Jan. 1931
1. S.E. England 2. E. England... 3. E. Midlands	Winds becoming strong southerly, reaching gale force locally, veering later and remaining strong to gale; some rain followed by squally showers with hail or sleet locally and bright intervals; mild becoming much cooler.
4. W. Midlands 5. S.W. England 6. South Wales 7. North Wales 8. N.W. England 9. N. Midlands	Southerly winds veering northerly, strong or gale; some rain followed by squally showers with hail or sleet locally and bright intervals; mild becoming much cooler.
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 16. Orkneys and Shetlands. 17. N.W. Ireland 18. N.E. Ireland 19. S.E. Ireland 20. S.W. Ireland	Strong to gale southerly winds veering northerly and remaining strong to gale; rain at first, squally showers with local hail or sleet, and bright intervals later; mild at first, much cooler later.

GENERAL INFERENCE.

A deep depression centred off Northwest Ireland will move eastward together with associated secondaries. Further depressions will follow from the Atlantic. Weather will be very unsettled generally with strong winds and rain in all districts.

FURTHER OUTLOOK.

Very unsettled generally.

Times of Issue of Gale Warnings.

South Cone at 0235 on 31st in 5,6,7,8, 12,17,18,19 and 20; and at 0810 on 31st in 1,2,10,11,13A,13B, 15 and 16.

Forecasts issued at 0950 G.M.T.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

H.M. Stationery Office Press, Kingsway, W.C.2

AIR MINISTRY, METEOROLOGICAL OFFICE. Chart of Weather in the Northern Hemisphere.

EXPLANATION OF CHART.

BAROMETER. Isobars are drawn for intervals of four millibars.

WIND. Arrows fly with the wind. Number of feathers indicate Beaufort Force.

⊙ = Calm.

TEMPERATURE is given in degrees F.

WEATHER is given in Beaufort Notation (see page 1) and by symbols (see opposite page).

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION

Saturday, 31st January, 1931.

No. 25,272.

OBSERVATIONS at 1 hr. G.M.T. 31st January.

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	1020·9	+22	W'S	2	m	31	95	4	-	-	-	0	0	-
	S. Farnborough	237	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Winchester	275	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Boscombe Down	417	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Calshot, (S'thmtn)	8	1020·6	+14	NNW	3	bc	32	95	6	-	3	-	0	2-3	-
	Dungeness	20	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Lympne	346	1018·8	+26	N'E	3	z	36	85	6	5	-	-	7-8	7-8	2500
2	Shoeburyness	11	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Felixstowe	15	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Gorleston	14	1019·9	+12	ENE	3	c	37	85	7	3	-	-	7-8	7-8	2500
	Cranwell	240	1021·5	+10	NW'N	2	bf	27	95	2	-	-	-	0	0	-
3	Cardington	100	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Birmingham	535	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Upper Heyford	408	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Leafield	612	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	Ross-on-Wye	223	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	Portland Bill	32	1021·3	+12	N'W	3	c	37	75	5	4	7	-	4-6	7-8	2500
	Plymouth	82	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Falmouth	200	1022·6	0	-	0	c	42	75	7	5	2	-	4-6	10	4000
	Scilly (St. Mary's)	163	1021·5	-8	S	4	r₀r₀	42	95	6	6	-	-	10	10	2500
	Guernsey	175	1021·9	+14	-	0	c	40	65	7	5	-	-	7-8	7-8	2500
6	Pembroke	142	1019·3	-2	SW	3	r₀r₀	41	85	7	3	-	-	10	10	800
7	Holyhead	26	1018·1	-10	S'E	4	ir₀	40	85	8	6	7	-	4-6	~~4~~ 10	2500
	Chester (Sealand)	16	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	L'pool (Bidston)	198	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	Harrogate	478	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	Spurn Head	29	1020·5	+14	NW'W	1	bc	36	95	5	5	8	-	2-3	2-3	1500
	Tynemouth	67	1019·2	0	SW	1	bcf	32	95	3	5	-	-	4-6	4-6	800
11	Inchkeith	190	1017·7	-6	S	1	z	34	95	6	5	1	-	2-3	10	1500
	Leuchars	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	Renfrew	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Eskdalemuir	794	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13A	Tiree	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13B	Stornoway	34	1009·2	-22	S	5	c	42	85	7	3	2	-	4-6	10	4000
15	Dalwhinnie	1176	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Aberdeen	37	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Wick	81	1013·8	-12	SSW	4	bc	37	95	8	5	1	-	2-3	4-6	4000
16	Lerwick	54	1014·6	-4	SSW	2	bc	39	75	8	8	-	-	4-6	4-6	1500
17	Blacksod Point	18	1009·2	-20	S	5	dd	49	95	6	6	-	-	10	10	4150
18	Malin Head	52	1009·6	-16	SSE	6	ir₀	37	95	7	6	1	-	4-6	10	1500
	Aldergrove	238	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Donaghadee	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	Birr Castle	173	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	Valentia Obsy.†	30	1015·0	-14	S	2	dd	50	95	6	3	-	-	10	10	2500
	Roches Point	22	*	*	*	*	*	*	*	*	*	*	*	*	*	*

OBSERVATIONS at 7 hr. G.M.T. 31st January.

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)	1021·0	-6	S	1	f	28	95	3	5	-	-	10	10	<150	4	*
	Croydon	1020·8	-4	-	0	f	27	95	3	-	-	-	0	0	-	~~4~~ 4	*
	S. Farnborough	1020·6	-8	-	0	bf	26	95	1	-	-	-	0	0	-	4	*
	Winchester	1020·3	-10	-	0	m	28	95	4	5	-	-	10	10	1500	1	*
	Boscombe Down	1020·3	-6	ENE	1	cf	29	95	3	-	7	-	0	9+	-	4	*
	Calshot, (S'thmtn)	1020·3	-2	-	0	z	30	95	5	-	-	-	0	0	-	1	0
	Dungeness	*	*	NNW	2	bc	*	*	6	4	-	*	2-3	2-3	4000	*	2
	Lympne	1020·3	0	NW'N	3	bc	30	95	6	5	-	-	4-6	4-6	4000	4	*
2	Shoeburyness	1020·5	0	NNW	2	bc	29	95	7	-	6	-	0	2-3	-	4	*
	Felixstowe	1021·0	0	N'W	1	c	32	95	7	5	-	-	9	9	2500	0	1
	Gorleston	1021·0	-4	E	2	c	38	75	7	5	-	6	4-6	7-8	4000	0	3
	Cranwell	1019·9	-8	S	1	bc	27	95	6	-	3	8	0	2-3	-	8	*
3	Cardington	1020·5	-6	-	0	bf	24	95	2	-	-	-	0	0	-	5	*
	Birmingham	1018·9	-18	S	2	c	32	95	5	-	7	-	0	9	-	1	*
	Upper Heyford	1020·1	-10	-	0	F	27	95	1	5	-	-	10	10	<150	5	*
	Leafield	1019·1	-10	SE'S	2	of	28	95	2	5	-	-	10	10	2500	4	*
4	Ross-on-Wye	1018·3	-16	S	3	c	35	75	6	-	2	-	0	10	-	4	*
5	Portland Bill	1019·5	-12	SE	3	c	40	65	6	4	7	-	4-6	7-8	2500	1	3
	Plymouth	1018·9	-20	SSE	3	rr	40	85	6	6	-	-	10	10	800	2	2
	Falmouth	1018·2	-12	S	5	rr	42	95	6	6	-	-	10	10	2500	2	2
	Scilly (St. Mary's)	1015·7	-24	W'S	4	r₀r₀	48	95	5	6	-	-	10	10	2500	1	2
	Guernsey	1020·9	-12	-	0	o	38	85	6	5	-	-	10	10	2500	0	3
6	Pembroke	1013·9	-28	S	5	rr	41	95	6	3	2	-	7-8	10	800	1	3
7	Holyhead	1012·1	-40	S	7	r₀r₀	38	95	6	6	-	-	10	10	1500	1	3
	Chester (Sealand)	1016·2	-32	SE'S	4	c	35	85	6	5	2	-	7-8	10	4000	4	*
8	L'pool (Bidston)	1014·9	-22	ESE	4	rs	34	95	7	5	-	-	10	10	1500	6	*
9	Harrogate	1017·4	-10	SSE	2	f	32	95	3	5	-	-	10	10	<150	4	*
10	Spurn Head	1019·2	-2	S	2	c	35	95	6	5	-	8	4-6	7-8	1500	4	4
	Tynemouth	1016·3	-20	S	2	o	35	95	6	6	-	-	10	10	1500	4	2
11	Inchkeith	1012·4	-24	SE	1	o	36	95	7	5	-	-	10	10	1500	4	0
	Leuchars	1012·5	-30	SSE	3	c	35	85	6	-	2	-	0	10	-	4	*
12	Renfrew	1008·6	-28	SE	3	r₀r₀	35	95	7	6	-	-	10	10	1500	1	*
	Eskdalemuir	1013·1	-26	S	3	S₀S₀	31	95	4	6	-	-	10	10	450	8	*
13A	Tiree	1008·2	-54	SSE	7	RR	41	95	6	6	-	-	10	10	800	1	4
13B	Stornoway	1000·9	-40	S	6	dd	39	95	6	6	-	-	10	10	4000	2	4
15	Dalwhinnie	1007·3	-4	SSE	7	KS	29	95	3	5	-	-	10	10	<150	8	*
	Aberdeen	1011·5	-28	SSE	4	c	38	75	6	6	2	-	4-6	10	2500	4	2
	Wick	1007·0	-36	S	7	c	38	85	8	5	2	-	7-8	10	1500	0	4
16	Lerwick	1010·6	-16	S'W	4	bc	41	75	8	8	-	-	4-6	4-6	1500	1	*
17	Blacksod Point	996·3	-48	SW	8	RR	50	95	6	6	-	-	10	10	<150	1	7
18	Malin Head	999·1	-64	SSE	5	ir	42	95	6	6	2	-	9	10	1500	1	3
	Aldergrove	1004·9	-50	SSE	5	rr	41	95	6	6	-	-	10	10	800	1	*
	Donaghadee	1007·2	-40	S'W	6	rr	41	95	7	6	-	-	10	10	800	1	3
19	Birr Castle	1004·0	-58	S	3	rr	46	95	7	6	-	-	10	10	2500	1	*
20	Valentia Obsy.†	1003·3	-56	S	5	ir₀	51	95	6	5	-	-	10	10	800	1	4
	Roches Point	1008·9	-44	SW	3	r₀r₀	48	95	7	6	-	-	10	10	1500	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 30th Hrs. (36)
London (Kew)	40	27	18	1	Tr.	0·0
Croydon	~~43~~ 39	26	24	3	Tr.	0·0
S. Farnborough	38	24	16	0.3	Tr.	0·0
Winchester	39	27	23	1	-	0·3
Boscombe Down	38	28	25	0.2	Tr.	*
Calshot, (S'thmtn)	41	28	25	0.2	Tr.	1·7
Dungeness	42	28	*	2	-	*
Lympne	39	30	26	2	Tr.	0·0
Shoeburyness	41	28	23	2	-	0·1
Felixstowe	41	29	24	0.3	-	0·1
Gorleston	39	36	31	5	-	0·0
Cranwell	35	23	17	7	-	0·2
Cardington	38	23	22	3	Tr.	0·0
Birmingham	38	31	18	-	-	1·3
Upper Heyford	37	27	21	3	-	*
Leafield	36	28	17	0.6	-	0·0
Ross-on-Wye	40	29	20	-	-	2·8
Portland Bill	44	34	*	-	-	*
Plymouth	45	38	36	0.1	1	6·8
Falmouth	45	42	*	-	3	7·0
Scilly (St. Mary's)	46	42	*	Tr.	6	5·5
Guernsey	44	37	28	1	-	6·1
Pembroke	44	41	*	-	4	6·2
Holyhead	43	36	29	Tr.	3	6·2
Chester (Sealand)	41	29	24	-	-	5·1
L'pool (Bidston)	39	33	29	-	Tr.	6·2
Harrogate	36	29	25	2	-	0·0
Spurn Head	40	33	*	13	Tr.	0·0
Tynemouth	40	32	25	2	-	*
Inchkeith	40	33	27	-	-	4·8
Leuchars	38	28	23	0.1	-	6·3
Renfrew	40	29	~~14~~ 21	-	1	3·7
Eskdalemuir	35	21	15	-	0·2	6·6
Tiree	43	35	32	-	8	3·3
Stornoway	39	35	*	-	6	3·4
Dalwhinnie	33	21	*	Tr.	0·1	1·2
Aberdeen	38	29	23	Tr.	-	4·9
Wick	40	36	*	0.1	-	*
Lerwick	38	35	*	1	2	1·8
Blacksod Point	45	41	*	4	16	*
Malin Head	43	37	*	0.2	4	2·3
Aldergrove	40	34	31	0.2	7	4·0
Donaghadee	43	35	*	-	6	*
Birr Castle	43	38	38	0.5	7	1·9
Valentia Obsy.†	48	44	43	0.6	5	0·7
Roches Point	48	44	*	0.1	7	*

LONDON OBSERVATIONS.

Day 7h—18h, Kew & Croydon. 9h—18h, Kensington. 9h—21h, other stations.

	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	cor₀r₀som₀	oir₀	bxbfx	40	27	18	1	Tr.	0·0	*	*	2
Croydon	217	cm₀grs₀s₀	omr₀frr₀r₀	ormxbfx	41	26	24	3	Tr.	0·0	*	*	3
Greenwich (Royal Observatory)	149	odrs	crsd	obxf	39	26	17	2	Tr.	0·0	92	90	3
City (Bunhill Row)	—	*	*	*	*	*	*	*	*	0·0	*	*	*
Westminster (St. James' Park)	27	*	*	*	41	28	25	/		0·0	92	86	*
Regents Pk. (Botanic Gardens)	168	*	*	*	*	*	*	*	*	0·0	*	*	*
Camden Square	110	oorSor	oro	*	39	29	19	1	-	*	*	95	*
Kensington Palace	80	o	o	*	39	28	23	1	-	*	At 18h. 84	91	*
Hampstead Observatory	450	osrbc	bcx	*	38	27	16	1	-	0·0	*	93	*

FOREIGN OBSERVATIONS.

Stations	18h. G.M.T. 30th January. Barom. mb.	Wind Direc.	Wind Force	Weather	Temp. °F.	7h. G.M.T. 31st January. 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	WNW	3	c	39	1020·6	W	1	o	37	41	36	3	-
Brussels	1008·4	NE	3	o	37	1019·1	NNE	2	z	32	37	32	1	0·3
Berlin	1024·6	NE	3	m	32	1021·9	ENE	2	r₀r₀	28	32	27	-	2
Zürich	1011·8	SSW	1	bc	34	1018·2	NNW	1	m	30	41	28	0·6	-
Rome						1009·1	NNE	3	bc	37		32		5

Atmospheric Pollution. Milligrams of Solid Impurity per cubic metre.

24 hrs. ended 7h. G.M.T. 31st

South Kensington Max.	Time.	Min.	Time.
0·6	9h 30th	0·3	1-3h 31st

Kew Observatory Max.	Time.	Min.	Time.
0·3	21h 30th	0·1	10h 30th

EXPLANATION OF FIGURES, LETTERS, etc.

COLUMNS 2, 16.
The barometric tendency is expressed in tenths of a millibar.

COLUMNS 4, 18.
The Beaufort Scale of Wind is used only for surface observations. In the accompanying table the speed of the wind corresponding with the different numbers is the speed at about 30 feet above the ground.

Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.	Beaufort No.	Statute m/h.
0	1	4	13–18	9	47–54
1	1–3	5	19–24	10	55–63
2	4–7	6	25–31	11	64–75
3	8–12	7	32–38	12	75
		8	39–46		

COLUMNS 34, 35.
Tr. = rain has fallen, but amount less than 0·1 mm.

COLUMNS 8, 22.—Code for surface visibility.

		Objects not visible at
0	Dense fog	55 yards.
1	Thick fog	220 „
2	Fog	550 „
3	Moderate fog	1,100 „
4	Mist or haze	1¼ miles.
5	Poor visibility	2½ „
6	Moderate „	6¼ „
7	Good „	12½ „
8	Very good „	31 „
9	Excellent „	beyond 31m.

COLUMN 30.—Code for State of Sea.

0	Calm.	5	Very rough.
1	Smooth.	6	High.
2	Slight.	7	Very high.
3	Moderate.	8	Precipitous.
4	Rough.	9	Confused.

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METEOROLOGICAL OFFICE, AIR MINISTRY, ADASTRAL HOUSE, KINGSWAY LONDON, W.C.2.

G. C. SIMPSON, C.B., D.Sc., F.R.S., Director.

† 1 hr. observations are from Valentia W/T station

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION.
ADDITIONS & CORRECTIONS.
January 1931.

I.—ADDITIONS.

Stations.	Date of Report.	Obsn. Date.	Obsn. Hour.	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	Cloud. Height of Base (feet)	State of Ground. 0-9	Sea. 0-9	Temperature. Max. Day 7h-18h °F.	Temperature. Min. Night. 18h-7h °F.	Temperature. Min. on Grass °F.	Rainfall. Day 7h-18h mm.	Rainfall. Night 18h-7h mm.	Sunshine. Hrs.	Weather. 7h-13h	Weather. 13h-18h	Weather. 18h-1h	Weather. 1h-7h
TIREE.	1st.	31st	13h	989.9	+6	N'W	4	bc|pr	42	85	9	8	–	4	4-6	4-6	1500									bcpro			
"		"	18h	989.4	-4	NNW	3	bc	43	75	9	2	-	-	2-3	2-3	2500	0	3								b		
"		1st	7h	987.1	-6	NW	2	bc	40	75	9	3	–	-	2-3	2-3	2500	0	3	44	40	32	0.3	-	3.5			bcc	bcc
"	2nd	"	13h	986.5	-6	N'W	2	rr	42	85	6	9	7	-	9	9+	1500									bccpr			
"		"	18h	989.4	+18	N'E	5	c	41	75	8	8	–	8	9	9	1500	1	3								cirpr		
DALWHINNIE		"	13h	988.6	-4	–	0	s	32	85	8	5	–	–	2-3	2-3	2500									ocpsbc			
"		"	18h	989.2	0	ESE	1	c	30	85	8	5	-	-	7-8	7-8	4000	6	*								bcpsc		
"		2nd	7h	988.7	-2	W	5	bc	35	85	7	5	-	-	4-6	4-6	2500	5		34	28	*	Tr	–	1.7			c	c
TIREE.		"	"	991.9	0	NW'W	5	bc	42	75	9	2	–	-	4-6	4-6	1500	0	3	43	41	35	1	–	0.9			cbc	bc
"	3rd	"	13h	993.9	0	NW'W	4	bc	44	75	8	8	-	3	2-3	2-3	1500									phrqbcjp			
"		"	18h	994.6	+4	WNW	4	bc	43	75	8	8	–	-	4-6	4-6	1500	0	3								bccbc		
"	4th	3rd	13h	992.7	+4	N'E	1	c|pr	43	75	8	3	7	6	4-6	7-8	1500									cbcCPR			
"	"	"	18h	994.8	+14	N	5	pr	42	75	8	3	7	3	7-8	9	1500	1	3								cpr		
"		4th	7h	1004.2	+34	N	4	bc	41	75	9	8	5	-	2-3	2-3	2500	0	3	45	40	36	1	2	1.3			cPRprbc	bc
DALWHINNIE		"	"	1004.1	+24	NNE	2	c	33	85	8	5	–	-	7-8	7-8	2500	6	*	37	31	*		-	0.5			coc	c
"	5th	"	13h	1009.2	+10	NNW	1	c	35	85	8	5	-	-	7-8	7-8	2500									bcc			
"		"	18h	1011.9	+20	N	1	c	35	85	7	5	–	–	9	9	2500	6	*								bcc		
TIREE		"	13h	1009.3	+16	N	3	b	45	85	9	4	4	-	1	1	2500									bbcb			
"		"	18h	1012.7	+22	N	4	c	44	75	8	8	-	-	7-8	7-8	1500	0	3								bbccpro			
"		5th	7h	1019.3	+10	NE'N	2	c	40	85	9	5	7	4	4-6	7-8	2500	0	3	45	40	34	Tr	-	3.6			bcbbc	bccv
"	6th	"	13h	1021.2	+4	ENE	2	bc	42	75	9	5	–	8	2-3	4-6	2500									cbcv			
"		"	18h	1022.6	+6	E'N	2	c	38	75	9	5	–	8	1	7-8	4000	0	2								bcv			
"	7th	6th	"	1029.6	+8	SE'S	3	bc	39	95	7	–	7	9	0	4-6	–	0	3								bcc		
"		7th	7h	1031.2	+2	SSE	3	c	39	85	7	5	7	-	2-3	9+	2500	0	3	40	35	31	–	–	1.3			bc	c
DALWHINNIE		"	"	1035.9	*	SSE	1	c	25	95	8	5	–	–	9	9	4000	5	*	30	15	*		–	3.3			c	c
TIREE	9th	9th	"	1027.8	-4	NW'W	4	c|pr	43	85	8	3	3	-	7-8	10	1500	1	3	46	41	34		1	0.0			bcPR	prq
"	11th	11th	"	1014.0	-22	WSW	5	id.	49	95	6	5	–	–	10	10	2500	1	3	48	48	45		0.3	0.0			cid.	id.
DALWHINNIE		"	"	1012.2	-16	W	5	id.	45	95	7	5	-	–	7-8	7-8	1500	1	*		42			0.6	0.4			cpro	cpro
"	12th	"	13h	1010.0	-10	W	5	c	44	85	8	5	4	-	4-6	7-8	4000									probc			
"		"	18h	1008.7	-14	WNW	5	bc	37	85	8	5	–	–	4-6	4-6	4000	1	*								bcpro		
TIREE		"	13h	1012.1	-10	WNW	3	c	47	85	7	5	7	-	7-8	9+	1500									oirc			
"		"	18h	1010.1	-14	W'N	4	bc	44	75	8	5	7	-	2-3	2-3	1500	1	3								cbcq		
PORTLAND BILL.	16th	15th	"	1019.8	0	WNW	3	c	49	85	7	4	7	-	4-6	7-8	1500	1	3								c		
"		16th	1h	1019.9	0	W'N	4	c	47	85	8	4	7	-	4-6	9	1500											c	
"		"	7h	1017.2	-16	W	5	c	48	85	8	4	7	-	7-8	10	1500	1	3	49	47	*	–	–					c
STORNOWAY.	17th	"	18h	983.9	0	WNW	9	bc|ph(r)	39	85	6	3	-	-	4-6	4-6	4000	6	5								aglPh		
"		17th	1h	988.0	-22	WNW	7	bc	39	85	6	3	–	–	4-6	4-6	4000											ophrt2bc	
"		"	7h	994.2	+38	NW	4	bc	37	85	7	3	–	–	4-6	4-6	4000	2	4	49	35	*	10	7	0.6				cphq
ESKDALEMUIR.		"	"	995.4	+14	NW	7	ps.	37	75	7	6	–	–	10	10	450	1	*		34	33		5	0.0			oprsq ?	opksq/ps ?
DALWHINNIE.	18th	18th	7h	1009.8	+2	NNW	2	ps	32	95	7	5	–	–	9	9	1500	8	*		30			0.5	1.6			c	ips
"		19th	"	1011.4	0	NNW	2	ss	31	95	5	5	–	–	10	10	800											S.S.m	
"		"	18h	1010.6	-6	N	1	f	28	95	3	5	–	–	10	10	<150	8											S.S.f
TIREE		"	13h	1010.4	-20	ESE	3	d.d.	37	95	6	5	–	–	10	10	800									odrDrirsd			
"		"	18h	1006.1	-32	SE'S	4	a.r.	41	95	6	5	–	–	10	10	800	1	3								oDrirsdr.		
"		19th	7h	1007.3	+20	NW'W	5	c	47	85	7	5	7	-	4-6	9+	2500	1	3	41	41	41	8	3	0.0			oDrPrhdd	a.a.c
STORNOWAY.	23rd	23rd	1h	975.7	-56	SW	6	bc	46	95	7	4	7	-	2-3	4-6	4000											orrid bc	
"		"	7h	967.2	-28	W	5	bc	44	85	7	3	–	-	4-6	4-6	4000	2	4	45	41	*		4	1.2				cirbc
DALWHINNIE.	25th	25th	7h	993.7	+18	WNW	4	bc	33	95	7	5	–	–	4-6	4-6	2500	8	*		31	*		1	0.8			pbc	cbc
"	26th	"	13h	999.0	+20	WNW	3	bc	35	75	8	5	7	-	2-3	4-6	4000									psobc			
"		"	18h	1003.0	+22	NW	3	bc	32	95	7	5	–	–	4-6	4-6	1500	8	*								psbcc		
TIREE.	30th	30th	7h	1012.7	+10	NW'N	4	bc	41	65	9	1	-	8	1	2-3	4000	0	3	41	37	33		–	2.1			b	bbc
"	31st	"	13h	1015.5	+10	–	0	c	43	65	9	7	–	6	1	9+	4000									bcc			
"		"	18h	1015.6	-4	S'E	2	c	35	85	9	7	7	8	Tr	7-8	4000	0	2								cbc		
"		31st	7h	1000.2	-54	SSE	7	RR	41	95	6	6	–	–	10	10	800	1	4	43	35	32	–	8	3.3			bccrr	rrRR

II.—CORRECTIONS.

Date of Report.	Page.	Station.	Col. No.	Correct Entry.	Date of Report.	Page.	Station.	Col. No.	Correct Entry.	Date of Report.	Page.	Station.	Col. No.	Correct Entry.	Date of Report.	Page.	Station.	Col. No.	Correct Entry.	Date of Report.	Page.	Station.	Col. No.	Correct Entry.
1st.	1	PORTLAND BILL	30	4	2nd	1	S. FARNBORO'.	7	95	3rd	1	CRANWELL	8	5	3rd	4	TYNEMOUTH	29	4	3rd	4	TIREE	25	8
	1	HOLYHEAD	10	1		1	DUNGENESS	19	0		1	LEAFIELD.	2	+10		4	ESKDALEMUIR.	33	25		4	"	26	4-6
	1	LIVERPOOL	21	75		1	GUERNSEY.	26	4-6		1	ROSS-ON-WYE	8	7		4	TIREE	15	992.2		4	"	27	4-6
	1	HARROGATE	1	983.8		1	ROSS-ON-WYE	40	p.cbc		1	INCHKEITH.	40	bc,c		4	"	16	*		4	"	28	1500
	1	ROCHES. POINT	29	1		1	PEMBROKE	19	bc		1	STORNOWAY.	5	rr		4	"	17	WNW		4	"	29	1
	4	DUNGENESS	17	N		1	"	27	4-6		1	DALWHINNIE.	1	990.9		4	"	18	3		4	"	30	2
	4	"	26	4-6		1	WICK.	24	1		1	"	15	993.6		4	"	19	c		4	"	34	0.3
	4	"	27	4-6		1	ROCHES POINT.	39	bcb		1	BLACKSOD POINT	22	6		4	"	20	42		4	DALWHINNIE	15	9934
	4	"	19	bc		4	S. FARNBORO'.	35	0.2		4	S. FARNBORO'.	16	-12		4	"	21	75		4	"	36	1.6
	4	FALMOUTH	19	c|r		4	DUNGENESS	18	2		4	WINCHESTER	15.	992.5		4	"	22	8		4	BLACKSOD POINT	35	3
	4	DALWHINNIE	15	988.1		4	ROSS-ON-WYE.	35	0.2		4	LYMPNE	15.	993.0		4	"	23	3	4th	1	S. FARNBORO'.	26	7-8
	4	ABERDEEN	31	33		4	ROCHES. POINT.	30	2		4	BIRMINGHAM.	36.	4.0		4	"	24	-		1	CRANWELL	37	f r.d.

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION.
ADDITIONS & CORRECTIONS.
January 1931.

II.—CORRECTIONS.

Date of Report.	Page.	Station.	Col. No.	Correct Entry.
4th	1	UPPER HEYFORD	14	<150
	1	HOLYHEAD	26	9+
	1	"	27	9+
	1	SEALAND	40	srsbeF
	1	TYNEMOUTH	11	-
	1	RENFREW	40	crbm₀
	1	ESKDALEMUIR	39	ofcps
	1	DALWHINNIE	1	994.2
	1	"	15	994.8
	1	WICK.	9	9
	1	MALIN HEAD	21	85
	1	DONAGHADEE	39	cpr₀bc
	1	BIRR CASTLE	40	bccpr₀
	4	BOSCOMBE DOWN	15	999.8
	4	CRANWELL	21	95
	4	PEMBROKE	12	4-6
	4	"	13	4-6
	4	WICK.	27	4-6
	4	LERWICK.	34	1
5th	1	WINCHESTER	7	85
	1	DUNGENESS	19	F
	1	"	22	1
	1	CRANWELL	37	Fxps
	1	PLYMOUTH	4	4
	1	GUERNSEY.	29	2
	1	HOLYHEAD	17	N'E
	1	LERWICK.	24	6
	1	MALIN HEAD	1	1008.8
	1	BIRR CASTLE	29	1
	1	VALENTIA	13	7-8
	4	SHOEBURYNESS	36	0.0
	4	FALMOUTH	28	4000
	4	GUERNSEY.	12	4-6
	4	"	13	4-6
	4	HARROGATE	24	-
	4	"	25	-
	4	"	27	Tr
	4	SPURN HEAD	36	1.3
	4	DALWHINNIE	15	1019.9
	4	"	31	35
	4	"	34	-
	4	BIRR CASTLE	19	bc
	4	"	22	8
	4	"	31	44
6th	1	S. FARNBORO:	29	4
	1	CALSHOT	38	bm₀x
	1	CRANWELL	2	+2
	1	ROSS-ON-WYE	29	4
	1	SCILLY.	24	-
	1	LIVERPOOL	1	1021.3
	1	RENFREW	37	boffxg
	1	DALWHINNIE.	1	1021.9
	1	"	15	1024.1
	1	ROCHES POINT	10	-
	4	S. FARNBORO:	34	0.1
	4	DUNGENESS	19	bF
	4	"	22	1
	4	BIRMINGHAM	20	33
	4	TYNEMOUTH	29	4
	4	TIREE	21	95
	4	"	25	7
	4	STORNOWAY.	11	6
	4	TIREE	35	-
	4	DALWHINNIE	15	1028.2
	4	"	21	95
7th	1	ROSS-ON-WYE	15	1030.3
	1	PLYMOUTH	13	2-3
	1	"	5	bc
	1	INCHKEITH	37	bcm₀m₀
	1	DALWHINNIE	1	1029.9
	1	"	15	1032.4
	4	DUNGENESS	31	40
	4	FALMOUTH	32	36
	4	LIVERPOOL	36	0.0
	4	TYNEMOUTH	33	24
	4	INCHKEITH	31	36
8th	1	CALSHOT.	38	bfxm
	1	PLYMOUTH	37	bxm₀bF
8th	1	PLYMOUTH	39	bx
	1	FALMOUTH	15	1033.7
	1	DALWHINNIE	1	1033.5
	1	"	15	1029.9
	1	LERWICK	20	39
	1	DONAGHADEE	29	0
	1	BIRR CASTLE	28	2500
	4	CALSHOT	34	-
	4	PLYMOUTH	17	NNE
	4	"	19	C
	4	"	27	7-8
	4	GUERNSEY.	31	45
	4	HOLYHEAD	3	S'W
	4	"	4	3
	4	TIREE	27	10
	4	DALWHINNIE	15	1027.7
9th	1	LYMPNE	7	65
	1	"	21	75
	1	CARDINGTON	37	Fxcf
	1	PEMBROKE	28	4000
	1	DALWHINNIE	1	1023.8
	1	"	15	1023.4
	1	LERWICK.	6	43
	1	ALDERGROVE	26	7-8
	1	ROCHES POINT	39	om₀ir₀c
	4	BIRMINGHAM	31	38
	4	PLYMOUTH	33	24
	4	SPURN HEAD	8	3
	4	INCHKEITH	32	31
	4	STORNOWAY.	31	46
	4	DALWHINNIE	15	1026.5
	4	WICK.	20	35
	4	MALIN HEAD	28	4000
10th	1	S. FARNBORO:	2	-6
	1	DUNGENESS	19	m
	1	"	22	4
	1	CRANWELL	37	bcmbm₀
	1	LEAFIELD	23	-
	1	"	26	0
	1	"	28	-
	1	ROSS-ON-WYE	29	6
	1	PEMBROKE	6	45
	1	SEALAND	4	3
	1	ESKDALEMUIR	38	cpr₀c
	1	TIREE	30	2
	1	DALWHINNIE.	1	1026.9
	1	"	15	1026.6
	1	ABERDEEN	39	bbcc
	1	VALENTIA.	38	bccbc
	1	ROCHES POINT	9	5
	1	"	10	-
	1	"	11	-
	1	"	12	2-3
	1	"	13	2-3
	4	ESKDALEMUIR	34	Tr
	4	DALWHINNIE	15	1022.9
11th	1	S. FARNBORO:	29	4
	1	"	38	ofmod₀com
	1	FALMOUTH	1	1032.6
	1	HOLYHEAD	16	+2
	1	INCHKEITH	20	44
	1	TIREE	24	2
	1	"	26	4-6
	1	DALWHINNIE	1	1021.7
	1	"	3	NNW
	1	"	15	1018.8
	1	BLACKSOD POINT	14	<150
	4	S. FARNBORO:	32	34
	4	DUNGENESS	17	WSW
	4	PLYMOUTH	35	0.2
	4	GUERNSEY.	29	0
	4	LERWICK	3	W'N
	4	BLACKSOD POINT	28	<150
12th	1	BIRMINGHAM	26	10
	1	"	27	10
	1	WICK	22	8
	1	BIRR CASTLE	39	or₀r₀cbc
	1	VALENTIA	38	cpr₀crr
12th	4	FELIXSTOWE	35	4
	4	UPPER HEYFORD	24	-
	4	"	25	-
	4	"	26	9
	4	LIVERPOOL	15	1005.6
	4	TIREE	34	1
	4	DALWHINNIE	15	1002.2
	4	"	31	47
	4	"	34	2
	4	LERWICK.	31	45
13th	1	WINCHESTER	2	-26
	1	DUNGENESS	3	NW
	1	ROSS-ON-WYE	6	44
	1	"	12	2-3
	1	PORTLAND BILL	15	1003.6
	1	TIREE	38	bccpr
	1	DALWHINNIE	1	1003.0
	1	"	15	1006.5
	1	WICK	40	bcpsphbc
	1	BLACKSOD POINT	9	3
	1	"	14	2500
	1	"	28	2500
	4	ROSS-ON-WYE	31	45
	4	DALWHINNIE	15	1019.1
	4	"	32	20
	4	LERWICK	35	1
14th	1	KEW	21	75
	1	WINCHESTER	38	cr₀bc
	1	PORTLAND BILL	18	6
	1	PLYMOUTH	37	bc3₀c
	1	HARROGATE	3	N'W
	1	RENFREW	38	bybx
	1	TIREE	2	+8
	1	"	5	C
	1	DALWHINNIE	1	1021.4
	1	"	15	1022.2
	1	"	21	95
	1	DONAGHADEE	7	65
	4	KEW	15	1017.5
	4	CROYDON	16	+14
	4	S. FARNBORO:	20	29
	4	DUNGENESS	34	5
	4	"	35	2
	4	LEAFIELD	16	+12
	4	GUERNSEY.	20	38
	4	INCHKEITH	7	85
	4	DALWHINNIE.	15	1018.4
	4	"	32	14
15th	1	S. FARNBORO:	19	C
	1	CRANWELL	37	bbcps₀
	1	SEALAND	16	-10
	1	"	17	WNW
	1	"	18	2
	1	"	19	C
	1	"	21	85
	1	"	22	6
	1	"	26	9
	1	"	27	9
	1	"	30	±
	1	"	38	cm₀
	1	RENFREW	40	cr₀bcc
	1	TIREE	19	bcfr
	1	"	38	cir₀
	1	STORNOWAY.	10	2
	1	"	12	9
	1	"	13	10
	1	DALWHINNIE	1	1013.9
	1	"	15	1010.4
	1	BLACKSOD POINT	3	W
	1	ROCHES POINT	8	8
	1	"	39	cbc
	4	S. FARNBORO:	22	7
	4	"	35	0.1
	4	CALSHOT	26	7-8
	4	LIVERPOOL	34	Tr
	4	INCHKEITH	34	0.4
	4	DALWHINNIE	15	1007.5
	4	BLACKSOD POINT	34	1
15th	4	BIRR CASTLE	33	33
16th	4	BOSCOMBE DOWN	16	+8
	4	GORLESTON	18	4
	4	GUERNSEY	3	WSW.
	4	ESKDALEMUIR	33	42
	4	"	36	0.8
	4	STORNOWAY.	15	994.5
	4	"	32	48
	4	DALWHINNIE	29	1
	4	LERWICK	31	40
	1	DUNGENESS	5	m
	1	"	8	4
	1	"	24	-
	1	BIRMINGHAM	17	WNW
	1	"	18	3
	1	TIREE	37	omidm₀rd₀
	1	"	39	cid₀DrDr
	1	LERWICK	26	10
17th	1	CALSHOT	37	coc
	1	ROSS-ON-WYE	21	51
	1	SCILLY.	7	95
	1	HOLYHEAD	4	6
	1	"	18	7
	1	INCHKEITH	39	cqoprbc
	1	TIREE	11	8
	1	"	21	55
	1	"	38	cpr₀prPh
	1	WICK	20	47
	1	BLACKSOD POINT	14	<150
	1	BIRR. CASTLE	2	-38
	4	LYMPNE	16	-4
	4	GORLESTON	1	994.0
	4	PLYMOUTH	26	Tr
	4	"	27	1
	4	GUERNSEY.	14	1500
	4	"	19	bc
	4	"	26	4-6
	4	"	27	4-6
	4	"	31	50
	4	LIVERPOOL	29	0
	4	WICK	6	37
	4	LERWICK	31	46
18th	1	S. FARNBORO:	25	2
	1	DUNGENESS	37	bcd₀
	1	SHOEBURYNESS	12	7-8
	1	CARDINGTON	2	+4
	1	RENFREW	11	5
	1	ALDERGROVE	20	39
	1	"	28	4000
	1	TIREE	3	NW'W
	4	CROYDON	34	2
	4	LYMPNE	15	1011.8
	4	"	29	1
	4	FALMOUTH	35	0.1
	4	PEMBROKE	15	1015.9
	4	TIREE	17	NNW
	4	"	18	4
	4	"	19	DD
	4	"	21	85
	4	"	30	3
	4	DALWHINNIE	31	35
	4	BLACKSOD POINT	32	44
19th	1	GUERNSEY.	21	85
	1	HOLYHEAD	39	id₀m₀
	4	SHOEBURYNESS	15	1011.0
	4	"	31	43
	4	LEUCHARS	31	37
	4	BLACKSOD POINT	20	48
	4	"	28	<150
	4	DONAGHADEE	20	49
20th	1	DUNGENESS	28	2500
	1	LEAFIELD	40	ffoc
	1	LEUCHARS	39	c
	1	TIREE	11	8
	1	"	40	pp
	1	BLACKSOD POINT	6	47
	1	BIRR CASTLE	20	49
	1	VALENTIA	40	bbcp₀b
20th	4	WINCHESTER	16	-2
	4	PORTLAND BILL	31	51
	4	STORNOWAY	17	W
	4	DALWHINNIE	36	0.1
	4	LERWICK	29	6
21st	1	GORLESTON	37	or₀fcm
	1	ROSS-ON-WYE	11	2
	1	HOLYHEAD	18	2
	1	TIREE	39	bcc
	1	STORNOWAY.	6	45
	1	BLACKSOD POINT	10	-
	1	"	11	1
	1	"	20	47
	1	ALDERGROVE	10	-
	1	"	11	7
	4	GORLESTON	34	0.2
	4	PEMBROKE	1	1019.2
	4	TIREE	32	37
	4	STORNOWAY.	20	47
	4	"	32	40
	4	BLACKSOD POINT	28	<150
	4	ALDERGROVE	36	4.7
22nd	1	CALSHOT	39	od₀d₀Did₀
	1	FELIXSTOWE	39	cm₀
	1	LEAFIELD	39	od₀or
	1	RENFREW	39	cid₀r₀
	1	ALDERGROVE	39	cddif
	1	VALENTIA	3	NW'N
	1	"	14	800
	4	KEW	21	95
	4	BIRMINGHAM	20	45
	4	SCILLY	31	50
	4	WICK	17	SSW
23rd	1	SHOEBURYNESS	6	46
	1	LIVERPOOL	15	1007.6
	1	RENFREW	39	corrq
	1	"	40	irfq₀c
	1	TIREE	40	c
	1	STORNOWAY.	15	992.1
	1	DONAGHADEE	16	-40
	4	CALSHOT	34	1
	4	LEAFIELD	20	45
	4	PLYMOUTH	19	rr
	4	"	29	2
	4	"	33	47
	4	GUERNSEY	29	2
	4	PEMBROKE	15	993.9
	4	"	29	2
	4	HOLYHEAD	18	5
	4	TIREE	29	1
	4	BIRR CASTLE	29	1
24th	1	CRANWELL	39	cirbp₀r
	1	LEAFIELD	38	cd₀bcc
	1	PORTLAND BILL	1	991.9
	1	HOLYHEAD	38	r₀Rbcq
	1	BLACKSOD POINT	6	46
	1	"	28	1500
	1	ALDERGROVE	21	85
	1	ROCHES POINT	19	pr₀
	1	"	38	oirep₀
	4	SCILLY.	6	47
	4	LIVERPOOL	33	36
	4	TYNEMOUTH	14	1500
	4	MALIN HEAD	29	1
25th	1	LIVERPOOL	18	6
	1	LEUCHARS	18	4
	1	"	38	cvqbcbv
	1	RENFREW	3	WNW
	1	VALENTIA	11	1
	4	TYNEMOUTH	2	+20
	4	"	16	+16
	4	TIREE	20	41
	4	"	24	7
	4	BLACKSOD POINT	24	-
	4	MALIN HEAD	11	-
26th	1	HOLYHEAD	38	bccq
	1	TIREE	26	2-3
	1	BIRR CASTLE	19	cjph

AIR MINISTRY.

THE DAILY WEATHER REPORT

OF THE METEOROLOGICAL OFFICE, LONDON.

BRITISH SECTION.
ADDITIONS & CORRECTIONS.
January 1931.

II.—CORRECTIONS.

Date of Report.	Page.	Station.	Col. No.	Correct Entry.
26th	1	ALDERGROVE	1	1006.9
	1	"	2	+14
	1	"	3	SW
	1	"	4	5
	1	"	5	phr
	1	"	6	38
	1	"	7	95
	1	"	8	8
	1	"	9	9
	1	"	10	-
	1	"	11	-
	1	"	12	9
	1	"	13	9
	1	"	14	2500
	1	"	37	bccqprh
	1	"	39	bcprs
	1	"	40	bcprs
	1	DONAGHADEE	1	1005.5
	1	"	2	+14
	1	"	3	W
	1	"	4	3
	1	"	5	bc
	1	"	6	42
	1	"	7	75
	1	"	8	7
	1	"	9	5
	1	"	10	3
	1	"	11	-
	1	"	12	4-6
	1	"	13	4-6
	1	"	14	2500
	1	"	37	bc
	4	BOSCOMBE DOWN.	31	44
	4	DUNGENESS	31	43
	4	PLYMOUTH	36	5.7
	4	HARROGATE	29	4
	4	INCHKEITH	2	+10
	4	DALWHINNIE	15	1009.9
	4	"	31	35
	4	"	34	1
	4	MALIN HEAD	15	1014.6
27th	1	BOSCOMBE DOWN	9	1
	1	"	39	bcb
	1	CRANWELL	37	cbcpr₀
	1	"	38	bcp₀cpr
	1	GUERNSEY.	13	4-6
	1	MALIN HEAD	1	1018.7
	1	"	9	3
	4	BOSCOMBE DOWN	17	NNW
	4	"	33	25
	4	SCILLY	15	1021.6
	4	SPURN HEAD	21	85
28th	1	DUNGENESS	10	-
	1	"	13	0
	1	GORLESTON	38	bcm₀m₀
	1	"	39	bcm₀m₀x
	1	BIRMINGHAM	18	3
	1	HARROGATE	29	4
	1	INCHKEITH	1	1011.7
	1	LEUCHARS	11	5
	1	ESKDALEMUIR	39	cps₀rodd
	1	WICK	22	8
	4	KEW	36	6.5
	4	S. FARNBORO:	27	9+
	4	TYNEMOUTH	2	-32
	4	INCHKEITH	5	0
	4	TIREE	35	5
	4	ALDERGROVE	15	1005.6
	4	"	16	+18
29th	1	BOSCOMBE DOWN	39	bccpr
	1	"	40	prbbc
	1	DUNGENESS	12	9
	1	"	17	W
	1	LYMPNE	7	75
	1	GORLESTON	39	or₀o9₀
	1	ROSS-ON-WYE	39	cbccr
	1	PORTLAND BILL	19	c
	1	"	27	7-8

Date of Report.	Page.	Station.	Col. No.	Correct Entry.
29th	1	PLYMOUTH	37	bq₀cpr₀q
	1	FALMOUTH	12	7-8
	1	"	26	7-8
	1	SPURN HEAD	15	1000.2
	1	TIREE	7	85
	1	"	38	cirbc
	1	STORNOWAY.	6	42
	1	VALENTIA	7	95
	4	ROSS-ON-WYE	35	1
	4	FALMOUTH	6	46
	4	MALIN HEAD	24	2
	4	"	26	4-6
30th	1	LYMPNE	8	7
	1	SHOEBURYNESS	20	42
	1	CRANWELL	12	9
	1	"	37	cbcm₀c₀m₀
	1	"	38	r₀orrm₀r₀
	1	BIRMINGHAM	19	pr
	1	LEUCHARS	39	bcbx
	1	RENFREW	40	bbcx
	1	TIREE	5	c/r
	1	VALENTIA	39	bcc₀bc
	4	DUNGENESS	31	46
	4	"	35	0.3
	4	ALDERGROVE	17	WNW
31st	1	BIRMINGHAM	12	7-8
	1	"	13	7-8
	1	GUERNSEY	26	7-8
	1	"	27	7-8
	1	HOLYHEAD	13	4-6
	1	INCHKEITH	39	cmmm₀m₀
	1	LEUCHARS	3	W
	1	"	25	6
	1	BLACKSOD POINT	6	43
	1	BIRR CASTLE	38	cor₀r₀
	1	VALENTIA	39	oir₀orc
	4	CROYDON	29	4
	4	"	31	39
	4	ROSS-ON-WYE	20	35
	4	HOLYHEAD	13	10
	4	RENFREW	15	1009.6
	4	"	33	21

Date of Report.	Page	Station.	HEALTH RESORTS.
2nd	2	ILKLEY	MAX. 38°
3rd	2	SOUTHPORT	MIN. 36°
5th	2	MORECAMBE	cxbbc, bcx. 28. 38. - - 4.5
11th	2	SOUTHPORT	MIN. 38.
13th	2	DEAL	DAY RAIN .1.
14th	2	BRIGHTON	WEATHER. FORENOON. orc
"	"	FOLKESTONE	MAX. 44.
"	"	ST IVES	DAY. RAIN. TRACE
"	"	BUDE	MAX. 42.
15th	2	SKEGNESS	" 37
"	"	CLEETHORPES	" 35
"	"	BUDE	" 41
16th	2	SOUTHEND	" 45
19th	2	MABLETHORPE	om₀ or₀ 36. 41. - Trace. 0.0
23rd	2	DOVERCOURT	MIN. 37.
25th	2	SOUTHPORT	SUNSHINE. 3.4.
28th	2	WORTHING	MIN. 33.
29th	2	SKEGNESS.	rom₀. odm₀. 32 43 3. 0.2 0.0
"	"	RHYL	MAX. 44.
"	"	DUNBAR	" 42.
30th	2	MABLETHORPE	NIGHT RAINFALL. 5mm
"	"	RHYL	MAX. 45.
31st	2	SOUTHEND	MAX (41)
"	"	LOWESTOFT	WEATHER. oprc. c.
"	"	CLEETHORPES	MAX. 41.

LONDON. OBSERVATIONS

Date of Report.	Page	Station.	HEALTH RESORTS.
1st	4	GREENWICH.	9h visibility. 0.
4th	"	WESTMINSTER.	MAX. 40. MIN. 35. GRASS. 31. RAINFALL. 24h. 1mm. HUM: 15h 61% 9h. 90%
7th	"	REGENTS. PARK	SUNSHINE. 3.7h.
9th	"	GREENWICH	MORNING WEATHER. ofg. Night Rainfall. 0.3 9h. Hum. 92%
"	"	REGENTS. PARK	SUNSHINE. 0.0.
10th	"	WESTMINSTER.	MAX 41. MIN. 28. GRASS. 24. RAINFALL 24h NIL. HUM 15h 69% 9h. 96%
11th	"	"	" 39. " 31. " (26). " 0.6 - " 94% " 94%
"	"	CAMDEN SQUARE	WEATHER. MORNING. f. afternoon. fd. MAX. 37. MIN. 36. GRASS. 32. DAY. RAIN. - NIGHT. 0.3 9h HUM: 96%
"	"	S. KENSINGTON	ATMOSPHERIC. POLUTION. MAX. 1.3 21h 10th MIN: <0.3. 4h to 7h. 11th
12th	"	KEW	9h visibility. 4.
"	"	"	ATMOSPHERIC. POLUTION. Defective Record.
13th	"	REGENTS. PARK	SUNSHINE. 0.3h.
18th	"	CAMDEN. SQUARE	WEATHER. cbcc. ccpc. MAX 45. MIN 37. GRASS. 32. RAINFALL. DAY. 0.3 NIGHT -. 9h HUM: 81%
21st	"	HAMPSTEAD	" ombbc. bm. " 46. " 33. " 24. " 0.1 " 0.1 " 100%
22nd	"	GREENWICH.	MIN. 44.
24th	"	KEW	9h VISIBILITY. 6
"	"	"	ATMOSPHERIC. POLUTION. Defective RECORD.
25th	"	REGENTS. PARK	SUNSHINE. 5.3
"	"	CAMDEN SQUARE	WEATHER. bbc, bccb MAX 47. MIN 38. GRASS. 33. RAINFALL. NIL. 9h HUM. 81%
26th	"	REGENTS PARK	SUNSHINE. 5.0h
28th	"	KEW	" 6.5h

H.M. Stationery Office Press, Kingsway W.C.2.

Pe 13761 2292 Wt 17527 J. 0 6907 Co. 908. 1020. 6/31.